APPENDICES

Appendix 1 – Taxonomy of the Immune Evasion Literature

Table A1-1 – Eight Aggregate Category Taxonomy of the Immune Evasion Literature

CL #	CLUSTER THEME	# REC
73	ENHANCE CYTOTOXIC FUNCTION OF NATURAL KILLER CELLS TO REDUCE TUMOR	799
	CELL IMMUNE SYSTEM EVASION	
16	impact of shedding of MICA/B on tumor cell immune evasion, emphasizing	171
	treatments that reduce this shedding and augment the cytotoxic function of Natural	
	Killer cells	
19	Natural Killer Cell therapies against tumors, emphasizing reduction of immune	628
	evasion through enhancing activation and surveillance functions of NK cells	
109	REVERSE DOWNREGULATION OF MHC CLASS 1 TO REDUCE IMMUNE SYSTEM	1234
	EVASION BY TUMORS	
3	role of the immune checkpoint HLA-G in cancer mainly and viral infections secondarily	299
11	HLA Class 1 expression, emphasizing immune system evasion by cancer resulting from	278
	HLA Class 1 loss	
29	1) tumor MHC Class 1 downregulation, 2) the consequent reduction in tumor cell	360
	immunosurveillance, and 3) immunotherapies that can reverse downregulation of	
	MHC-I to aid in anti-tumor immunity	
33	MHC class 1, especially the viral interference with the MHC Class I antigen processing	297
	and presentation pathway and the subsequent viral immune system evasion	
114	IMMUNOTHERAPIES TO COUNTER T-CELL SUPPRESSION BY TUMOR	8193
	MICROENVIRONMENT AND ENHANCE IMMUNE CHECKPOINT BLOCKADE	
6	role of fas and fasL in cancer, emphasizing immune evasion by T lymphocyte	233
	apoptosis	
13	hepatocellular carcinoma, emphasizing the potential role of immunotherapies in	222
	countering tumor microenvironment-mediated immune system evasion	
15	cancer immunotherapy using IDO1 inhibitors that will transform the tumor	159
	microenvironment from tolerogenic to normal immunogenic by interfering with the	
	IDO1-kynurenine-aryl hydrocarbon receptor pathway	
17	pancreatic cancer/pancreatic ductal adenocarcinoma, and the role of	199
	immunotherapies in countering the immune system evasion associated with a	
	tolerogenic tumor microenvironment	
18	1) the role of exosomes in cancer progression (especially their role in tumor	297
	microenvironment therapy resistance), and 2) immunotherapies to reduce the	
	tolerance associated with the immunosuppressive tumor microenvironment	
22	immune responses to human papillomavirus, especially the evasion of host immune	135
	defenses by hpv	
28	myeloid-derived suppressor cells in the tumor microenvironment, especially	471
	immunotherapy that targets these cells and reduces their suppression of T-cell	
	activity	
32	breast cancer, emphasizing mechanisms of immune evasion and immunotherapy	425
	resistance	

36	metabolic impacts on the immune system, especially on the contribution of metabolic dysfunction to the immunosuppressive tumor microenvironment	256			
39	nanoparticles (especially cell membrane-coated biomimetic) for tumor drug delivery,				
29	emphasizing increased immune escape/evasion and enhanced circulation time	224			
40		402			
40	tumors, especially their escape and evasion from immune system control	402 318			
44	microenvironment				
45	head and neck squamous cell carcinomas, especially immunotherapies to counter evasion of the immune system				
49	tumor microenvironment (especially the role of tumor-associated macrophages in promoting immunosuppression), emphasizing the targeting of these tumor-associated macrophages for cancer immunotherapy				
56	construction of a cancer-associated long non-coding RNA signature to predict prognosis and immune landscape in myriad cancers	794			
59	cancer immunotherapy, emphasizing the targeting of cancer immune evasion	1368			
61	tumor microenvironment, especially immune suppression in the tumor microenvironment, and its role in promoting tumor growth	1086			
62	cancer, especially the mechanisms of cancer progression and metastasis and their relation to epithelial-mesenchymal plasticity and immune evasion	869			
119	IMMUNOTHERAPIES TO COUNTER IMMUNOSUPPRESSIVE TUMOR MICROENVIRONMENT, EMPHASIZING THE PD-1 AND PD-L1 IMMUNE CHECKPOINT				
2	CAR T-cell cancer immunotherapy for solid tumors, emphasizing efforts to overcome the tumor cell evasion of the immune system T-cells	233			
14	Non-Small-Cell Lung Cancer, emphasizing regulation of PD-L1 expression on tumor cells to minimize tumor immune evasion which occurs by inhibiting functional activity of cytotoxic lymphocytes	350			
25	role of immunosuppressive regulatory T cells in cancer immunology (which augment tumor development and progression by inhibiting antitumor immunity), emphasizing strategies to deplete Treg cells and control Treg cell functions to increase antitumor immune responses	472			
41	immune checkpoint inhibitors for cancer immunotherapy, including mechanisms of resistance to immune checkpoint blockade	273			
46	PD-L1 expression in advanced cancers, especially its contribution to immune escape	842			
50	role of the PD-1 and PD-L1 immune checkpoint in immune escape, emphasizing its cancer immunotherapy targeting to inhibit immune escape	421			
58	T cells (especially CD8+), emphasizing the role of T cell response suppression (in the tumor microenvironment) in immune system evasion	1478			
12	IMMUNE ESCAPE OF THE SARS-COV-2 OMICRON VARIANT	510			
12	immune escape of the SARS-CoV-2 Omicron variant	510			
12		210			
	SARS-COV-2, ITS VARIANTS AND MUTATIONS, AND THE MECHANISMS OF ITS	1260			
21	IMMUNE EVASION/IMMUNE ESCAPE				

120	MECHANISMS USED BY BACTERIA, FUNGI, AND PARASITES FOR IMMUNE SYSTEM EVASION	6303
0	role of Helicobacter pylori in gastric cancer, emphasizing immune system evasion	166
5	biofilms (especially bacterial), emphasizing their survival by evasion of the immune system	163
9	immune system evasion by the Lyme Disease Spirochete Borrelia burgdorferi	155
23	pathogenicity and virulence of Staphylococcus aureus, emphasizing the immune system evasion of this gram-positive bacterium	637
30	variant surface glycoprotein coat density in African trypanosomes, emphasizing the mechanisms responsible for this parasite's evasion of its host's immune response	305
31	malaria parasite Plasmodium falciparum, emphasizing pathogenicity and immune evasion	509
37	complement, emphasizing evasion strategies of bacteria	308
42	Porphyromonas gingivalis primarily and Pseudomonas aeruginosa secondarily, emphasizing their immune escape and evasion mechanisms	233
47	fungal pathogens, especially the interactions of Candida albicans with innate host defense and its escape strategies	359
51	parasites (especially Trypanosoma cruzi, Leishmania, and Toxoplasma gondii), emphasizing their immune system evasion strategies	495
52	Streptococcus pneumoniae, emphasizing pathogenicity, virulence, and immune system evasion	366
53	Salmonella typhimurium and other bacteria, emphasizing their pathogenicity, virulence, and the molecular mechanisms they use to evade the immune system	375
55	Schistosoma mansoni and other helminth parasites, emphasizing evasion of host immunity during infection	537
57	bacteria (especially Neisseria meningitidis), emphasizing their pathogenesis and immune suppressive mechanisms	394
63	mechanisms associated with evasion of the host immune system by bacterial and viral pathogens	1301
121	MECHANISMS USED BY VIRUSES FOR IMMUNE SYSTEM EVASION	6668
1	Porcine Reproductive and Respiratory Syndrome Virus, emphasizing the role of immune system evasion in promoting viral replication	91
4	hepatitus C virus, especially on the role of immune system evasion in hcv persistence	375
7	immune system evasion by the Epstein-Barr Virus	197
8	escape mutants of the hepatitis B virus	560
10	mechanisms used by African Swine Fever Virus to evade host immune system response and promote viral replication	158
20	herpes simplex virus infections (especially hsv-1), emphasizing immune system evasion by hsv-1, and therapies to reduce this immune evasion	198
24	Kaposi's sarcoma-associated herpesvirus, emphasizing its immune evasion strategies	233
26	human cytomegalovirus disease, with emphasis on countering HCMV immune system evasion and immune escape	309
27	Mycobacterium tuberculosis, especially its mechanisms for evading the host immune response	450
34	B-cell lymphoma, emphasizing mechanisms of immune evasion by lymphoma cells	271

35	HIV-1, emphasizing 1) generation of vaccine-based broadly neutralizing antibodies	456
	against HIV-1 and 2) HIV-1 mutations and escape	
38	Zika virus primarily and flaviviruses and Dengue virus secondarily, emphasizing	201
	immune system evasion	
43	HIV escape mutations, emphasizing the role of the HIV-1 accessory protein Nef in viral	553
	pathogenesis, viral replication, and immune escape of HIV-infected cells	
48	Type 1 interferon, emphasizing viral pathogen-induced mechanisms to antagonize	729
	mammalian interferon signaling pathways	
54	influenza viruses, emphasizing the role of mutations in immune escape variants	643
60	viruses, emphasizing viral strategies for immune system evasion	1244

Appendix 2 – Selected Titles of Papers from Each Leaf Cluster

(Note: the first row of each table contains the leaf cluster number, the leaf theme, and the number of records in the leaf cluster (in parentheses))

Table A2-1, Cluster 0

Cluster 0 focuses on the role of Helicobacter pylori in gastric cancer, emphasizing immune system evasion (166)
The role of non-coding RNA in the diagnosis and treatment of Helicobacter pylori-related gastric
cancer, with a focus on inflammation and immune response.
The impact of autophagic processes on the intracellular fate of Helicobacter pylori: more tricks from
an enigmatic pathogen?
Strategies used by helicobacter pylori to establish persistent infection.
Biosynthesis, structure and biological function of cholesterol glucoside in Helicobacter pylori: A
review.
Helicobacter pylori and Its Role in Gastric Cancer.
Helicobacter pylori and the Role of Lipopolysaccharide Variation in Innate Immune Evasion.
Unraveling the factors and mechanism involved in persistence: Host-pathogen interactions in
Helicobacter pylori.
Helicobacter pylori evasion strategies of the host innate and adaptive immune responses to survive
and develop gastrointestinal diseases.
T cell subsets play an important role in the determination of the clinical outcome of Helicobacter
pylori infection.
Cholesterol glucosylation by Helicobacter pylori delays internalization and arrests phagosome
maturation in macrophages.
Mucosal inflammation and disease in Helicobacter pylori infection.
Helicobacter pylori vaccination: is there a path to protection?
Helicobacter pylori arginase inhibits T cell proliferation and reduces the expression of the TCR zeta-
chain (CD3zeta).
Adhesion and Invasion of Gastric Mucosa Epithelial Cells by Helicobacter pylori.
Helicobacter pylori immune escape is mediated by dendritic cell-induced Treg skewing and Th17
suppression in mice.
Compromised autophagy by MIR30B benefits the intracellular survival of Helicobacter pylori.
Systems-wide analyses of mucosal immune responses to Helicobacter pylori at the interface between
pathogenicity and symbiosis.
Helicobacter pylori and T Helper Cells: Mechanisms of Immune Escape and Tolerance.
Oral immunization of mice with a multivalent therapeutic subunit vaccine protects against
Helicobacter pylori infection.
Helicobacter pylori downregulates expression of human β -defensin 1 in the gastric mucosa in a type
IV secretion-dependent fashion.
Induction of maturation and cytokine release of human dendritic cells by Helicobacter pylori.
Effect of Helicobacter pylori on gastric epithelial cells.
Suppression of cell division-associated genes by Helicobacter pylori attenuates proliferation of
RAW264.7 monocytic macrophage cells.
Immune evasion strategies used by Helicobacter pylori.
Mechanisms of persistence, innate immune activation and immunomodulation by the gastric
pathogen Helicobacter pylori.

Host genetic factors respond to pathogenic step-specific virulence factors of Helicobacter pylori in gastric carcinogenesis. Helicobacter pylori resists phagocytosis by macrophages: quantitative assessment by confocal microscopy and fluorescence-activated cell sorting.
Helicobacter pylori resists phagocytosis by macrophages: quantitative assessment by confocal
Serum-derived IgG1-mediated immune exclusion as a mechanism of protection against H. pylori
infection.
Immune evasion by Helicobacter pylori: gastric spiral bacteria lack surface immunoglobulin deposition
and reactivity with homologous antibodies.
Cholesterol glucosylation-based survival strategy in Helicobacter pylori.
Partial characterization of a cell proliferation-inhibiting protein produced by Helicobacter pylori.
Review: Pathogenesis of Helicobacter pylori infection.
Helicobacter pylori inflammation, immunity, and vaccines.
The Cyclopropane Fatty Acid Synthase Mediates Antibiotic Resistance and Gastric Colonization of
Helicobacter pylori.
Helicobacter pylori cholesterol-α-glucosyltransferase manipulates cholesterol for bacterial adherence
to gastric epithelial cells.
Helicobacter pylori arginase inhibits nitric oxide production by eukaryotic cells: a strategy for bacterial
survival.
Immunity, inflammation, and vaccines for Helicobacter pylori.
[Pathogenesis of Helicobacter pylori infection].
Helicobacter pylori: present status and future prospects in Japan.
Helicobacter pylori attenuates lipopolysaccharide-induced nitric oxide production by murine
macrophages.
Immune response modulation in inflammatory bowel diseases by Helicobacter pylori infection.
Interplay of the Gastric Pathogen Helicobacter pylori with Toll-Like Receptors.
Helicobacter pylori inhibits dendritic cell maturation via interleukin-10-mediated activation of the
signal transducer and activator of transcription 3 pathway.
Helicobacter pylori Deregulates T and B Cell Signaling to Trigger Immune Evasion.
Helicobacter pylori inhibits phagocytosis by professional phagocytes involving type IV secretion
components.
Multi-functional vesicles improve Helicobacter pylori eradication by a comprehensive strategy based
on complex pathological microenvironment.
Negative selection of T cells by Helicobacter pylori as a model for bacterial strain selection by immune
evasion.
Helicobacter pylori is invasive and it may be a facultative intracellular organism.
Helicobacter pylori cag pathogenicity island's role in B7-H1 induction and immune evasion.
Phagocytosis and persistence of Helicobacter pylori.
Helicobacter pylori virulence factors: subversion of host immune system and development of various
clinical outcomes.
Helicobacter pylori targets dendritic cells to induce immune tolerance, promote persistence and
confer protection against allergic asthma.
Helicobacter pylori-induced apoptosis in T cells is mediated by the mitochondrial pathway
independent of death receptors.
Masking of typical TLR4 and TLR5 ligands modulates inflammation and resolution by Helicobacter
pylori.
Prior to Foxp3 ⁺ regulatory T-cell induction, interleukin-10-producing B cells expand after Helicobacter
pylori infection.

Lactobacillus gasseri Suppresses the Production of Proinflammatory Cytokines in Helicobacter pylori-
Infected Macrophages by Inhibiting the Expression of ADAM17.
Helicobacter pylori infection: pathogenesis.
Cholesterol glucosylation promotes immune evasion by Helicobacter pylori.
Genome and population dynamics during chronic infection with Helicobacter pylori.
Stable isotope labeling by amino acids in cell culture based proteomics reveals differences in protein
abundances between spiral and coccoid forms of the gastric pathogen Helicobacter pylori.
The Role of Helicobacter pylori Outer Membrane Proteins in Adherence and Pathogenesis.
H pylori and host interactions that influence pathogenesis.
[The chemical structure of Helicobacter pylori lipopolysaccharide and innate immune response].
Immune Response in H. pylori-Associated Gastritis and Gastric Cancer.
Helicobacter pylori Infection.
Colonize, evade, flourish: how glyco-conjugates promote virulence of Helicobacter pylori.
Events at the host-microbial interface of the gastrointestinal tract IV. The pathogenesis of
Helicobacter pylori persistence.
Helicobacter pylori y-glutamyltranspeptidase impairs T-lymphocyte function by compromising
metabolic adaption through inhibition of cMyc and IRF4 expression.
Why can't we make an effective vaccine against Helicobacter pylori?
Pathogenesis of Helicobacter pylori infection.
Statins' Regulation of the Virulence Factors of Helicobacter pylori and the Production of ROS May
Inhibit the Development of Gastric Cancer.
Comparative analysis of the interaction of Helicobacter pylori with human dendritic cells,
macrophages, and monocytes.
Chimeric flagellin as the self-adjuvanting antigen for the activation of immune response against
Helicobacter pylori.
Redox biology and gastric carcinogenesis: the role of Helicobacter pylori.
The Helicobacter pylori autotransporter ImaA (HP0289) modulates the immune response and
contributes to host colonization.
Enhanced expression of indoleamine 2,3-dioxygenase in Helicobacter pylori-infected human gastric
mucosa modulates Th1/Th2 pathway and interleukin 17 production.
Immune Cell Signaling by Helicobacter pylori: Impact on Gastric Pathology.
Helicobacter pylori VacA Targets Myeloid Cells in the Gastric Lamina Propria To Promote Peripherally
Induced Regulatory T-Cell Differentiation and Persistent Infection.
In silico experiment with an-antigen-toll like receptor-5 agonist fusion construct for immunogenic
application to Helicobacter pylori.
Helicobacter pylori versus the host: remodeling of the bacterial outer membrane is required for
survival in the gastric mucosa.
Arginase II restricts host defense to Helicobacter pylori by attenuating inducible nitric oxide synthase
translation in macrophages.
Immune response to H. pylori.
Prediction of Host-Pathogen Interactions for Helicobacter pylori by Interface Mimicry and Implications
to Gastric Cancer.
Helicobacter pylori induces apoptosis of human monocytes but not monocyte-derived dendritic cells:
role of the cag pathogenicity island.
Update on the immunologic basis of Helicobacter pylori gastritis.
Immune Evasion Strategies and Persistence of Helicobacter pylori.

Helicobacter pylori outer membrane protein, HomC, shows geographic dependent polymorphism that is influenced by the Bab family.

HomA and HomB, outer membrane proteins of Helicobacter pylori down-regulate activation-induced cytidine deaminase (AID) and Ig switch germline transcription and thereby affect class switch recombination (CSR) of Ig genes in human B-cells.

Periplasmic cleavage and modification of the 1-phosphate group of Helicobacter pylori lipid A. Microbial carcinogenesis: Lactic acid bacteria in gastric cancer.

Helicobacter pylori interferes with leukocyte migration via the outer membrane protein HopQ and via CagA translocation. Immunology of Helicobacter pylori: insights into the failure of the immune response and perspectives on vaccine studies.

Helicobacter pylori and the innate immune system.

Nod1 Imprints Inflammatory and Carcinogenic Responses toward the Gastric Pathogen Helicobacter pylori.

Helicobacter pylori type IV secretion, host cell signalling and vaccine development.

Activity and Functional Importance of Helicobacter pylori Virulence Factors.

Potential animal models of Helicobacter pylori infection in immunological and vaccine research. Lipopolysaccharide Lewis Antigens.

Cellular evasion strategies of Helicobacter pylori in regulating its intracellular fate.

The role of genome diversity and immune evasion in persistent infection with Helicobacter pylori. Vitamin D3 activates the autolysosomal degradation function against Helicobacter pylori through the PDIA3 receptor in gastric epithelial cells.

The leukocyte-associated immunoglobulin (Ig)-like receptor-1 modulating cell apoptosis and inflammatory cytokines secretion in THP-1 cells after Helicobacter pylori infection.

Helicobacter pylori induces apoptosis of macrophages in association with alterations in the mitochondrial pathway.

Helicobacter pylori gene silencing in vivo demonstrates urease is essential for chronic infection. Inhibition of heat shock protein expression by Helicobacter pylori.

Lewis X biosynthesis in Helicobacter pylori. Molecular cloning of an alpha(1,3)-fucosyltransferase gene.

Why Helicobacter pylori has Lewis antigens.

High Helicobacter pylori Bacterial Load and Low Cytokine Expression Levels Are Associated with Nodular Gastropathy.

Virulence mechanisms and persistence strategies of the human gastric pathogen Helicobacter pylori. Biochemical and pathophysiological characterization of Helicobacter pylori asparaginase.

Lipopolysaccharide Structure and Biosynthesis in Helicobacter pylori.

Helicobacter pylori flagellins have very low intrinsic activity to stimulate human gastric epithelial cells via TLR5.

Immune evasion by Helicobacter pylori is mediated by induction of macrophage arginase II. Moonlighting of Helicobacter pylori catalase protects against complement-mediated killing by utilising

the host molecule vitronectin.

mRNA expression profiling reveals a role of Helicobacter pylori vacuolating toxin in escaping host defense.

Role of AmiA in the morphological transition of Helicobacter pylori and in immune escape. The Helicobacter pylori virulence effector CagA abrogates human β -defensin 3 expression via inactivation of EGFR signaling.

Lipopolysaccharide in bacterial chronic infection: insights from Helicobacter pylori lipopolysaccharide
and lipid A.

Relevance of fucosylation and Lewis antigen expression in the bacterial gastroduodenal pathogen Helicobacter pylori.

Phase-variable restriction/modification systems are required for Helicobacter pylori colonization. HLA-G 14-bp Ins/Ins Genotype in Patients Harbouring Helicobacter pylori Infection: A Potential Risk Factor?

Modulation of lymphocyte proliferation induced by gastric MALT lymphoma-associated Helicobacter pylori strains.

Helicobacter pylori infection interferes with epithelial Stat6-mediated interleukin-4 signal transduction independent of cagA, cagE, or VacA.

In vitro suppression of dendritic cells by Helicobacter pylori OipA.

Helicobacter pylori induces ERK-dependent formation of a phospho-c-Fos c-Jun activator protein-1 complex that causes apoptosis in macrophages.

Phase variation mediated niche adaptation during prolonged experimental murine infection with Helicobacter pylori.

Modification in the ppk gene of Helicobacter pylori during single and multiple experimental murine infections.

Induction of Mincle by Helicobacter pylori and consequent anti-inflammatory signaling denote a bacterial survival strategy.

Helicobacter pylori flagellin: TLR5 evasion and fusion-based conversion into a TLR5 agonist.

Modulation of the CD4+ T-cell response by Helicobacter pylori depends on known virulence factors and bacterial cholesterol and cholesterol α -glucoside content.

How Helicobacter pylori acquired its name, and how it overcomes gastric defence mechanisms. A comprehensive analysis of Helicobacter pylori plasticity zones reveals that they are integrating conjugative elements with intermediate integration specificity.

Immunosuppressive proteins isolated from spiral and coccoid cytoplasmic solutions of Helicobacter pylori.

Outer membrane biogenesis in Escherichia coli, Neisseria meningitidis, and Helicobacter pylori: paradigm deviations in H. pylori.

Transcriptional phase variation of a type III restriction-modification system in Helicobacter pylori.

An enzymatic ruler modulates Lewis antigen glycosylation of Helicobacter pylori LPS during persistent infection.

sncRNAs packaged by Helicobacter pylori outer membrane vesicles attenuate IL-8 secretion in human cells.

Serologic IgG response to urease in Helicobacter pylori-infected persons from Mexico.

Species-specific immunity to Helicobacter suis.

Molecular modelling of the gastric barrier response, from infection to carcinogenesis.

Helicobacter pylori proteins response to nitric oxide stress.

Crystallization and preliminary crystallographic studies of Helicobacter pylori arginase.

Oxidative stress-induced peptidoglycan deacetylase in Helicobacter pylori.

Variations in Helicobacter pylori lipopolysaccharide to evade the innate immune component surfactant protein D.

Arginase 2 deletion leads to enhanced M1 macrophage activation and upregulated polyamine metabolism in response to Helicobacter pylori infection.

IgA antibodies impair resistance against Helicobacter pylori infection: studies on immune evasion in IL-10-deficient mice.

Regulation of vacuolar pH and its modulation by some microbial species.

Molecular anatomy and pathogenic actions of Helicobacter pylori CagA that underpin gastric carcinogenesis.

Beta2 integrin mediates entry of a bacterial toxin into T lymphocytes.

Helicobacter pylori colonization of the human gastric epithelium: a bug's first step is a novel target for us.

Who ate whom? Adaptive Helicobacter genomic changes that accompanied a host jump from early humans to large felines.

Therapeutic potential of cholesteryl O-acyl α -glucoside found in Helicobacter pylori.

Comparison of enzymatic properties and small molecule inhibition of γ -glutamyltranspeptidases from pathogenic and commensal bacteria.

East-Asian Helicobacter pylori strains synthesize heptan-deficient lipopolysaccharide. Epigenetics and Helicobacter pylori.

Antiparasitic drug nitazoxanide inhibits the pyruvate oxidoreductases of Helicobacter pylori, selected anaerobic bacteria and parasites, and Campylobacter jejuni.

Recombinant herpesvirus glycoprotein G improves the protective immune response to Helicobacter pylori vaccination in a mouse model of disease.

Helicobacter pylori Outer Membrane Vesicles Protect the Pathogen From Reactive Oxygen Species of the Respiratory Burst.

Molecular mimicry of ferret gastric epithelial blood group antigen A by Helicobacter mustelae.

Preclinical studies of amixicile, a systemic therapeutic developed for treatment of Clostridium difficile infections that also shows efficacy against Helicobacter pylori.

Characterization of Helicobacter pylori VacA-containing vacuoles (VCVs), VacA intracellular trafficking and interference with calcium signalling in T lymphocytes.

At home with hostility: How do pathogenic bacteria evade mammalian immune surveillance to establish persistent infection?

Characterization of the non-glandular gastric region microbiota in Helicobacter suis-infected versus non-infected pigs identifies a potential role for Fusobacterium gastrosuis in gastric ulceration.

Potential role of enterohepatic Helicobacter species as a facilitating factor in the development of Chlamydia trachomatis proctitis.

Structural, enzymatic and biochemical studies on Helicobacter pylori arginase.

Role of lipid rafts in persistent Helicobacter pylori infection: a narrative review.

Table A2-2, Cluster 1

Cluster 1 focuses on Porcine Reproductive and Respiratory Syndrome Virus, emphasizing the role of immune system evasion in promoting viral replication (91)

MicroRNA-376b-3p Promotes Porcine Reproductive and Respiratory Syndrome Virus Replication by Targeting Viral Restriction Factor TRIM22.

MicroRNA 373 Facilitates the Replication of Porcine Reproductive and Respiratory Syndrome Virus by Its Negative Regulation of Type I Interferon Induction.

Taming PRRSV: revisiting the control strategies and vaccine design.

Porcine Reproductive and Respiratory Syndrome Virus: Immune Escape and Application of Reverse Genetics in Attenuated Live Vaccine Development.

The Function of the PRRSV-Host Interactions and Their Effects on Viral Replication and Propagation in Antiviral Strategies.

Phylogenetic analysis of porcine reproductive and respiratory syndrome virus in Vietnam, 2021. Nonstructural protein 11 (nsp11) of porcine reproductive and respiratory syndrome virus (PRRSV) promotes PRRSV infection in MARC-145 cells.

Evasion of Antiviral Innate Immunity by Porcine Reproductive and Respiratory Syndrome Virus. Role of transcription factors in porcine reproductive and respiratory syndrome virus infection: A review.

Evasion strategies of porcine reproductive and respiratory syndrome virus.

N-Acetyltransferase 9 Inhibits Porcine Reproductive and Respiratory Syndrome Virus Proliferation by N-Terminal Acetylation of the Structural Protein GP5.

Exosomes Mediate Intercellular Transmission of Porcine Reproductive and Respiratory Syndrome Virus.

Porcine Reproductive and Respiratory Syndrome Virus Nonstructural Protein 4 Cleaves Porcine DCP1a To Attenuate Its Antiviral Activity.

Innate and adaptive immunity against Porcine Reproductive and Respiratory Syndrome Virus. Interleukin-1 receptor antagonist: an early immunomodulatory cytokine induced by porcine reproductive and respiratory syndrome virus.

RBM39 Alters Phosphorylation of c-Jun and Binds to Viral RNA to Promote PRRSV Proliferation. Both Nsp1 β and Nsp11 are responsible for differential TNF- α production induced by porcine reproductive and respiratory syndrome virus strains with different pathogenicity in vitro.

Porcine reproductive and respiratory syndrome virus vaccines: current status and strategies to a universal vaccine.

Induction of HOXA3 by Porcine Reproductive and Respiratory Syndrome Virus Inhibits Type I Interferon Response through Negative Regulation of HO-1 Transcription.

SILAC-based quantitative proteomic analysis of secretome of Marc-145 cells infected with porcine reproductive and respiratory syndrome virus.

Interaction between innate immunity and porcine reproductive and respiratory syndrome virus. Porcine Reproductive and Respiratory Syndrome Virus Enhances Self-Replication via AP-1-Dependent Induction of SOCS1.

Porcine reproductive and respiratory syndrome virus-infected alveolar macrophages contain no detectable levels of viral proteins in their plasma membrane and are protected against antibody-dependent, complement-mediated cell lysis.

Regulation and evasion of antiviral immune responses by porcine reproductive and respiratory syndrome virus.

miR-382-5p promotes porcine reproductive and respiratory syndrome virus (PRRSV) replication by negatively regulating the induction of type I interferon.

Porcine Reproductive and Respiratory Syndrome Virus Evades Antiviral Innate Immunity via MicroRNAs Regulation.

Phenotypic and functional modulation of bone marrow-derived dendritic cells by porcine reproductive and respiratory syndrome virus.

[Advance in immunology and immune evasion of PRRSV].

Interferon-Induced Transmembrane Protein 3 Is a Virus-Associated Protein Which Suppresses Porcine Reproductive and Respiratory Syndrome Virus Replication by Blocking Viral Membrane Fusion.

Porcine reproductive and respiratory syndrome virus counteracts the porcine intrinsic virus restriction factors-IFITM1 and Tetherin in MARC-145 cells.

Replication-competent recombinant porcine reproductive and respiratory syndrome (PRRS) viruses expressing indicator proteins and antiviral cytokines.

Quantitative interactome reveals that porcine reproductive and respiratory syndrome virus
nonstructural protein 2 forms a complex with viral nucleocapsid protein and cellular vimentin.
The N-N non-covalent domain of the nucleocapsid protein of type 2 porcine reproductive and
respiratory syndrome virus enhances induction of IL-10 expression.
Porcine reproductive and respiratory syndrome virus increases SOCS3 production via activation of
p38/AP-1 signaling pathway to promote viral replication.
Transcriptomic Analysis of Liver Indicates Novel Vaccine to Porcine Reproductive and Respiratory
Virus Promotes Homeostasis in T-Cell and Inflammatory Immune Responses Compared to a
Commercial Vaccine in Pigs.
Porcine reproductive and respiratory syndrome virus-mediated lactate facilitates virus replication by
targeting MAVS.
Evaluation of immune responses to porcine reproductive and respiratory syndrome virus in pigs
during early stage of infection under farm conditions.
Key Gaps in the Knowledge of the Porcine Respiratory Reproductive Syndrome Virus (PRRSV).
Targeting Swine Leukocyte Antigen Class I Molecules for Proteasomal Degradation by the nsp1 α
Replicase Protein of the Chinese Highly Pathogenic Porcine Reproductive and Respiratory Syndrome
Virus Strain JXwn06.
Highly Pathogenic Porcine Reproductive and Respiratory Syndrome Virus Nsp4 Cleaves VISA to Impair
Antiviral Responses Mediated by RIG-I-like Receptors.
Strategies to broaden the cross-protective efficacy of vaccines against porcine reproductive and
respiratory syndrome virus.
Impact of PRRSV on activation and viability of antigen presenting cells.
Porcine Reproductive and Respiratory Syndrome Virus Nonstructural Protein 1 Beta Interacts with Nucleoporin 62 To Promote Viral Replication and Immune Evasion.
PRRSV Non-Structural Proteins Orchestrate Porcine E3 Ubiquitin Ligase RNF122 to Promote PRRSV
Proliferation.
Porcine reproductive and respiratory syndrome virus (PRRSV) could be sensed by professional beta
interferon-producing system and had mechanisms to inhibit this action in MARC-145 cells.
Porcine reproductive and respiratory syndrome virus genetic variability a management and diagnostic
dilemma.
Downregulation of miR-122 by porcine reproductive and respiratory syndrome virus promotes viral
replication by targeting SOCS3.
Nonstructural proteins nsp2TF and nsp2N of porcine reproductive and respiratory syndrome virus
(PRRSV) play important roles in suppressing host innate immune responses.
Porcine Reproductive and Respiratory Syndrome Virus nsp11 Antagonizes Type I Interferon Signaling
by Targeting IRF9.
Challenges for porcine reproductive and respiratory syndrome virus (PRRSV) vaccinology.
Pathogenesis of porcine reproductive and respiratory syndrome virus.
Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) Inhibits RNA-Mediated Gene Silencing
by Targeting Ago-2.
LGP2 Promotes Type I Interferon Production To Inhibit PRRSV Infection via Enhancing MDA5-
Mediated Signaling.
Transcriptome sequencing analysis of porcine alveolar macrophages infected with PRRSV strains to
elucidate virus pathogenicity and immune evasion strategies.
Identification of Differentially Expressed Non-coding RNA in Porcine Alveolar Macrophages from
Tongcheng and Large White Pigs Responded to PRRSV.

ORF5 of porci	ine reproductive	and respiratory	syndrome virus	(PRRSV) is a target of	diversifying
selection as ir	nfection progress	ses from acute i	nfection to virus	rebound.	

Identification of three site mutations in nonstructural protein 1 β , glycoprotein 3 and glycoprotein 5 that correlate with increased interferon α resistance of porcine reproductive and respiratory syndrome virus.

Nsp1 α of Porcine Reproductive and Respiratory Syndrome Virus Strain BB0907 Impairs the Function of Monocyte-Derived Dendritic Cells via the Release of Soluble CD83.

Porcine reproductive and respiratory syndrome virus productively infects monocyte-derived dendritic cells and compromises their antigen-presenting ability.

Mucosal vaccines to prevent porcine reproductive and respiratory syndrome: a new perspective. Post-transcriptional control of type I interferon induction by porcine reproductive and respiratory syndrome virus in its natural host cells.

Porcine reproductive and respiratory syndrome virus nonstructural protein 1beta modulates host innate immune response by antagonizing IRF3 activation.

Porcine reproductive and respiratory syndrome virus infection inhibits NF- κ B signaling pathway through cleavage of IKK β by Nsp4.

Porcine reproductive and respiratory syndrome virus nucleocapsid protein modulates interferon-β production by inhibiting IRF3 activation in immortalized porcine alveolar macrophages.

Modulation of host cell responses and evasion strategies for porcine reproductive and respiratory syndrome virus.

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Table A2-3, Cluster 2

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Table A2-4, Cluster 3

Cluster 3 focuses on the role of the immune checkpoint HLA-G in cancer mainly and viral infections		
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The Molecular and Functional Characteristics of HLA-G and the Interaction with Its Receptors: Where		
to Intervene for Cancer Immunotherapy?		
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Table A2-6, Cluster 5

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Table A2-7, Cluster 6

Cluster 6 focuses on the role of fas and fasL in cancer, emphasizing immune evasion by T lymphocyte
apoptosis (233)
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Table A2-8, Cluster 7

Cluster 7 focuses on immune system evasion by the Epstein-Barr Virus (197)
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Table A2-9, Cluster 8

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Table A2-10, Cluster 9

Cluster 9 focuses on immune system evasion by the Lyme Disease Spirochete Borrelia burgdorferi
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Table A2-11, Cluster 10

Cluster 10 focuses on mechanisms used by African Swine Fever Virus to evade host immune system
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Table A2-12, Cluster 11

Cluster 11 focuses on HLA Class 1 expression, emphasizing immune system evasion by cancer resulting from HLA Class 1 loss (278)

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Table A2-13, Cluster 12

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Table A2-15, Cluster 14

Cluster 14 focuses on Non-Small-Cell Lung Cancer, emphasizing regulation of PD-L1 expression on tumor cells to minimize tumor immune evasion which occurs by inhibiting functional activity of cytotoxic lymphocytes (350)

Potential Role of Tumor-Derived Exosomes in Non-Small-Cell Lung Cancer in the Era of

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Development of PD-1/PD-L1 Pathway in Tumor Immune Microenvironment and Treatment for Non-Small Cell Lung Cancer.

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Table A2-16, Cluster 15

Cluster 15 focuses on cancer immunotherapy using IDO1 inhibitors that will transform the tumor microenvironment from tolerogenic to normal immunogenic by interfering with the IDO1-kynureninearyl hydrocarbon receptor pathway (159)

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Discovery of Mcl-1 inhibitors through virtual screening, molecular dynamics simulations and in vitro experiments.

Table A2-17, Cluster 16

Cluster 16 focuses on the impact of shedding of MICA/B on tumor cell immune evasion, emphasizing treatments that reduce this shedding and augment the cytotoxic function of Natural Killer cells (171) Natural killer cell cytotoxicity is suppressed by exposure to the human NKG2D ligand MICA*008 that is shed by tumor cells in exosomes.

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Table A2-20, Cluster 19

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Table A2-21, Cluster 20

Cluster 20 focuses on herpes simplex virus infections (especially hsv-1), emphasizing immune system evasion by hsv-1, and therapies to reduce this immune evasion (198) Immunity in latent Herpes simplex virus infection.

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Table A2-23, Cluster 22

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Table A2-24, Cluster 23

Cluster 23 focuses on pathogenicity and virulence of Staphylococcus aureus, emphasizing the immune system evasion of this gram-positive bacterium (637)

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during the asymptomatic phase is not associated with hypermethylation of the proviral promoter.
during the asymptomatic phase is not associated with hypermethylation of the proviral promoter.

Table A2-26, Cluster 25

Cluster 25 focuses on the role of immunosuppressive regulatory T cells in cancer immunology (which augment tumor development and progression by inhibiting antitumor immunity), emphasizing strategies to deplete Treg cells and control Treg cell functions to increase antitumor immune responses (472)

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Induced regulatory T cells in inhibitory microenvironments created by cancer.
T-regulatory cells: key players in tumor immune escape and angiogenesis.
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Table A2-27, Cluster 26

Cluster 26 focuses on human cytomegalovirus disease, with emphasis on countering HCMV immune system evasion and immune escape (309)

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Table A2-28, Cluster 27

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Table A2-30, Cluster 29

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Table A2-31, Cluster 30

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Table A2-32, Cluster 31

Cluster 31 focuses on the malaria parasite Plasmodium falciparum, emphasizing pathogenicity and immune evasion (509)

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Table A2-33, Cluster 32

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Genetic variability of the major histocompatibility complex class I homologue encoded by human

The role of cytomegalovirus-encoded homologs of G protein-coupled receptors and chemokines in manipulation of and evasion from the immune system.

Interference with major histocompatibility complex class II-restricted antigen presentation in the brain by herpes simplex virus type 1: a possible mechanism of evasion of the immune response.

Plasma membrane profiling defines an expanded class of cell surface proteins selectively targeted for degradation by HCMV US2 in cooperation with UL141.

The ER-lumenal domain of the HHV-7 immunoevasin U21 directs class I MHC molecules to lysosomes. MHC class II gene expression is not induced in HPIV3-infected respiratory epithelial cells.

The immune evasion paradox: immunoevasins of murine cytomegalovirus enhance priming of CD8 T cells by preventing negative feedback regulation.

Advances in the Evolutionary Understanding of MHC Polymorphism.

Cytomegalovirus immune evasion sets the functional avidity threshold for protection by CD8 T cells. Rinderpest virus isolates of different virulence vary in their capacity to infect bovine monocytes and macrophages.

Allele- and locus-specific recognition of class I MHC molecules by the immunomodulatory E3-19K protein from adenovirus.

Intracellular retention of the MHC class I-related chain B ligand of NKG2D by the human cytomegalovirus UL16 glycoprotein.

N Protein of Viral Hemorrhagic Septicemia Virus Suppresses STAT1-Mediated MHC Class II Transcription to Impair Antigen Presentation in Sea Perch, Lateolabrax japonicus.

TMEM129 is a Derlin-1 associated ERAD E3 ligase essential for virus-induced degradation of MHC-I.

Varicella-zoster virus productively infects mature dendritic cells and alters their immune function. The viral E3 ubiquitin ligase mK3 uses the Derlin/p97 endoplasmic reticulum-associated degradation

pathway to mediate down-regulation of major histocompatibility complex class I proteins.

Consequences of cytotoxic T lymphocyte interaction with major histocompatibility complex class l-expressing neurons in vivo.

VZV: immunobiology and host response.

Structure of the active domain of the herpes simplex virus protein ICP47 in water/sodium dodecyl sulfate solution determined by nuclear magnetic resonance spectroscopy.

Nuclear processing of nascent transcripts determines synthesis of full-length proteins and antigenic peptides.

Structure and function of the porcine TAP protein and its inhibition by the viral immune evasion protein ICP47.

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Cluster 34 focuses on B-cell lymphoma, emphasizing mechanisms of immune evasion by lymphoma cells (271)

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Table A2-36, Cluster 35

Cluster 35 focuses on HIV-1, emphasizing 1) generation of vaccine-based broadly neutralizing
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Table A2-37, Cluster 36

Cluster 36 focuses on metabolic impacts on the immune system, especially on the contribution of
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Table A2-38, Cluster 37

Cluster 36 focuses on metabolic impacts on the immune system, especially on the contribution of
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Table A2-39, Cluster 38

Cluster 38 focuses on Zika virus primarily and flaviviruses and Dengue virus secondarily, em	phasizing
immune system evasion (201)	

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Table A2-40, Cluster 39
Cluster 39 focuses on nanoparticles (especially cell membrane-coated biomimetic) for tumor drug
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Platelet-Tumor Cell Hybrid Membrane-Camouflaged Nanoparticles for Enhancing Therapy Efficacy in
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Theragnostics.
Leutusome: A Biomimetic Nanoplatform Integrating Plasma Membrane Components of Leukocytes
and Tumor Cells for Remarkably Enhanced Solid Tumor Homing.
Advanced targeted drug delivery by bioengineered white blood cell-membrane camouflaged
nanoparticulate delivery nanostructures.
NIR-responsive cancer cytomembrane-cloaked carrier-free nanosystems for highly efficient and self-
targeted tumor drug delivery.
Light-Triggered Biomimetic Nanoerythrocyte for Tumor-Targeted Lung Metastatic Combination
Therapy of Malignant Melanoma.
A bionic "Trojan horse"-like gene delivery system hybridized with tumor and macrophage cell
membrane for cancer therapy.
Bone-targeted erythrocyte-cancer hybrid membrane-camouflaged nanoparticles for enhancing
photothermal and hypoxia-activated chemotherapy of bone invasion by OSCC.
Melanoma Cell Membrane Biomimetic Versatile CuS Nanoprobes for Homologous Targeting
Photoacoustic Imaging and Photothermal Chemotherapy.
Platelet-Like Gold Nanostars for Cancer Therapy: The Ability to Treat Cancer and Evade Immune
Reactions.
Nanoparticles disguised as red blood cells to evade the immune system.
Light/pH-Triggered Biomimetic Red Blood Cell Membranes Camouflaged Small Molecular Drug
Assemblies for Imaging-Guided Combinational Chemo-Photothermal Therapy.
Cell membrane biomimetic nanoparticles in drug delivery.
Cell membrane cloaked nanomedicines for bio-imaging and immunotherapy of cancer: Improved
pharmacokinetics, cell internalization and anticancer efficacy.
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homologous targeting for colon cancer therapy.
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Antitumor Therapy.
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Cancer Cell Membrane-Coated Nanosuspensions for Enhanced Chemotherapeutic Treatment of Glioma.

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Enhanced photothermal therapy of biomimetic polypyrrole nanoparticles through improving blood flow perfusion.

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Polymeric capsule-cushioned leukocyte cell membrane vesicles as a biomimetic delivery platform.

Immune cell membrane-based biomimetic nanomedicine for treating cancer metastasis. Cancer-Cell-Membrane-Coated Nanoparticles with a Yolk-Shell Structure Augment Cancer

Chemotherapy.

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Carrier-free highly drug-loaded biomimetic nanosuspensions encapsulated by cancer cell membrane based on homology and active targeting for the treatment of glioma.

Biomimetic recombinant of red blood cell membranes for improved photothermal therapy.

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Platelets for advanced drug delivery in cancer.

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Erythrocyte-Camouflaged Mesoporous Titanium Dioxide Nanoplatform for an Ultrasound-Mediated Sequential Therapies of Breast Cancer.

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Engineered Red Blood Cell Biomimetic Nanovesicle with Oxygen Self-Supply for Near-Infrared-II Fluorescence-Guided Synergetic Chemo-Photodynamic Therapy against Hypoxic Tumors. Surface functionalization of gold nanoparticles with red blood cell membranes.

Sialylation: An alternative to designing long-acting and targeted drug delivery system.

Autologous cell membrane coatings on tissue engineering xenografts for suppression and alleviation of acute host immune responses. Platelet-biomimetic nanoparticles for in vivo targeted photodynamic therapy of breast cancer. Biomimetic Nanotechnology: A Natural Path Forward for Tumor-Selective and Tumor-Specific NIR Activable Photonanomedicines. A Multifunctional Biomimetic Nanoplatform for Relieving Hypoxia to Enhance Chemotherapy and Inhibit the PD-1/PD-L1 Axis. Polydopamine Nanoparticles Camouflaged by Stem Cell Membranes for Synergistic Chemo- Photothermal Therapy of Malignant Bone Tumors. Gold nanoparticles-mediated photothermal therapy and immunotherapy. The strategy of precise targeting and in situ oxygenating for enhanced triple-negative breast cancer chemophototherapy. Tumor-targeted biomimetic nanoplatform precisely integrates photodynamic therapy and autophagy inhibition for collaborative treatment of oral cancer. Cancer-cell-membrane-camouflaged supramolecular self-assembly of antisense oligonucleotide and chemodrug for targeted combination therapy. A biomimetic theranostic O(2)-meter for cancer targeted photodynamic therapy and phosphorescence imaging. Immune-regulating camouflaged nanoplatforms: A promising strategy to improve cancer nano- immunotherapy. Platelet-minicking nanoparticles co-loaded with W(18)O(49) and metformin alleviate tumor hypoxia for enhanced photodynamic therapy and photothermal therapy. Polymeric coatin, lubricates nanocontainers to escape macrophage uptake for bioreceptor recognition. Biomimetic 2D layered double hydroxide nanocomposites for hyperthermia-facilitated homologous targeting cancer photo-chemotrapy. Cell Membrane-Coated Mimics: A Methodological Approach for Fabrication, Characterization for Therapeutic Applications, and Challenges for Clinical Translation. Hybrid membrane camouflaged sceper sulfide nanoparticles for photothermal-chemotherapy of hepatocellular carcinoma. Cell Membrane Coated Mimics: A Methodological Approach for Fabrication, Characterization for T	
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Lipid-hybrid cell-derived biomimetic functional materials: A state-of-the-art multifunctional weapon against tumors.

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based on biodegradable mesoporous silica nanoparticles.
Brain Tumor Cell Membrane-Coated Lanthanide-Doped Nanoparticles for NIR-IIb Luminescence
Imaging and Surgical Navigation of Glioma.

A size-tunable papenelatform: enhanced MMP2-activated chemo-photodynamic immunotherapy

Emerging self-assembling peptide nanomaterial for anti-cancer therapy.

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Mapping the cell-membrane proteome of the SKBR3/HER2+ cell line to the cancer hallmarks.

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Novel biomimetic dual-mode nanodroplets as ultrasound contrast agents with potential ability of
precise detection and photothermal ablation of tumors.
A Dual Drug Delivery Platform for Cancer-Bacteria Cotargeting.
Near-Infrared II Phototherapy Induces Deep Tissue Immunogenic Cell Death and Potentiates Cancer
Immunotherapy.
Bispecific prodrug nanoparticles circumventing multiple immune resistance mechanisms for
promoting cancer immunotherapy.
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metastasis via a cancer cells and tumor vasculature dual-targeting strategy.
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for 4T1 breast tumor therapy.
Biomimetic Nanomaterials Triggered Ferroptosis for Cancer Theranostics.
Immunogenic-cell-killing and immunosuppression-inhibiting nanomedicine.
Nitrogen-Doped Carbon Nanotube Cups for Cancer Therapy.
A tumor extracellular pH-sensitive PD-L1 binding peptide nanoparticle for chemo-immunotherapy of
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A MXene-Based Bionic Cascaded-Enzyme Nanoreactor for Tumor Phototherapy/Enzyme Dynamic
Therapy and Hypoxia-Activated Chemotherapy.
Site-specific MOF-based immunotherapeutic nanoplatforms via synergistic tumor cells-targeted
treatment and dendritic cells-targeted immunomodulation.
A Biomimetic Nanoplatform with Improved Inflammatory Targeting Behavior for ROS Scavenging-
Based Treatment of Ulcerative Colitis.
Maximizing the Supported Bilayer Phenomenon: Liposomes Comprised Exclusively of PEGylated
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Precise engineering of targeted nanoparticles by using self-assembled biointegrated block
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Exosome-Modified Liposomes Targeted Delivery of Thalidomide to Regulate Treg Cells for Antitumor
Immunotherapy.
Time-Programmed Delivery of Sorafenib and Anti-CD47 Antibody via a Double-Layer-Gel Matrix for
Postsurgical Treatment of Breast Cancer.
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Enhanced Dual-Mode CT/MR Imaging of Tumors.
Induction of anti-tumor cytotoxic T cell responses through PLGA-nanoparticle mediated antigen
delivery.
Engineering antiphagocytic biomimetic drug carriers.
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Neutrophil membrane fusogenic nanoliposomal leonurine for targeted ischemic stroke therapy via	
remodeling cerebral niche and restoring blood-brain barrier integrity.	

Phototheranostics Using Erythrocyte-Based Particles.

A near-infrared light-responsive extracellular vesicle as a "Trojan horse" for tumor deep penetration and imaging-guided therapy.

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Regulating Glucose Metabolism with Prodrug Nanoparticles for Promoting Photoimmunotherapy of Pancreatic Cancer.

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Chemoimmunotherapy.

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Challenges and progress toward tumor-targeted therapy by systemic delivery of polymer-complexed oncolytic adenoviruses.

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Multifunctional nanoparticles of sinomenine hydrochloride for treat-to-target therapy of rheumatoid arthritis via modulation of proinflammatory cytokines.

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Tumor-derived biomimetic nanozyme with immune evasion ability for synergistically enhanced low dose radiotherapy.

Platelet bio-nanobubbles as microvascular recanalization nanoformulation for acute ischemic stroke lesion theranostics.

Efficient lung orthotopic tumor-growth suppression of oncolytic adenovirus complexed with RGD-targeted bioreducible polymer.

From conventional to stealth liposomes: a new frontier in cancer chemotherapy.

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Ultradense Erythrocyte Bionic Layer Used to Capture Circulating Tumor Cells and Plasma-Assisted High-Purity Release.

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Biological Function and Immunotherapy Utilizing Phosphatidylserine-based Nanoparticles. Nanocarrier-mediated brain delivery of bioactives for treatment/prevention of neurodegenerative diseases.

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Polynorbornene-based bioconjugates by aqueous grafting-from ring-opening metathesis polymerization reduce protein immunogenicity.

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Quercetin encapsulated in folic acid-modified liposomes is therapeutic against osteosarcoma by non-covalent binding to the JH2 domain of JAK2 Via the JAK2-STAT3-PDL1.

Table A2-41, Cluster 40

Cluster 40 focuses on tumors, especially their escape and evasion from immune system control (402) Dual Effect of Immune Cells within Tumour Microenvironment: Pro- and Anti-Tumour Effects and Their Triggers.

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Immunosenescence, suppression and tumour progression.

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Mechanisms of immune activation and regulation: lessons from melanoma.

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Tumour exosomes inhibit binding of tumour-reactive antibodies to tumour cells and reduce ADCC. Activation of cytotoxic T cells by solid tumours?

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Combination cancer immunotherapies tailored to the tumour microenvironment.
Allogeneic IgG combined with dendritic cell stimuli induce antitumour T-cell immunity.
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Table A2-43, Cluster 42

Cluster 42 focuses on Po	orphyromonas gingivalis primarily and Pseudomonas aeruginosa secondarily,			
	ine escape and evasion mechanisms (233)			
Porphyromonas gingivalis survival skills: Immune evasion.				
1, 00	s gingivalis and its virulence factors in periodontitis.			
Molecular Strategies Un	derlying Porphyromonas gingivalis Virulence.			
	of Porphyromonas gingivalis thiol proteinase in periodontal tissues of chronic			
periodontitis patients.				
Genetic diversity in the	oral pathogen Porphyromonas gingivalis: molecular mechanisms and			
biological consequences				
Macrophages: A commu	inication network linking Porphyromonas gingivalis infection and associated			
systemic diseases.				
Porphyromonas gingival	is regulates atherosclerosis through an immune pathway.			
Possible mechanisms of	Pseudomonas aeruginosa-associated lung disease.			
Persistent Exposure to P	orphyromonas gingivalis Promotes Proliferative and Invasion Capabilities, and			
Tumorigenic Properties	of Human Immortalized Oral Epithelial Cells.			
Porphyromonas gingival	is Stimulates TLR2-PI3K Signaling to Escape Immune Clearance and Induce			
Bone Resorption Indepe	ndently of MyD88.			
Pseudomonas aeruginos	sa: acute lung injury or ventilator-associated pneumonia?			
Porphyromonas gingival	is suppresses adaptive immunity in periodontitis, atherosclerosis, and			
Alzheimer's disease.				
Virulence Factors of Pse	udomonas Aeruginosa and Antivirulence Strategies to Combat Its Drug			
Resistance.				
	is adopts intricate and unique molecular mechanisms to survive and persist			
within the host: a critica				
Synthetic host defense p infection.	peptide IDR-1002 reduces inflammation in Pseudomonas aeruginosa lung			
	g and Avoiding Recognition in Pseudomonas aeruginosa Pneumonia.			
	ts of Porphyromonas gingivalis Infection.			
Serratiopeptidase Affect	ts the Physiology of Pseudomonas aeruginosa Isolates from Cystic Fibrosis			
Patients.				
	on Factor Is Shared by Intracellular and Extracellular Pathogens.			
	razide INP0341 attenuates Pseudomonas aeruginosa virulence in vitro and in			
vivo.				
	complement receptor-mediated immune evasion by Porphyromonas			
<u> </u>	the type of innate leukocyte.			
•	a major mechanism for horizontal DNA transfer in the oral pathogen			
Porphyromonas gingival				
.,	is Outer Membrane Vesicles Induce Selective Tumor Necrosis Factor			
	Receptor 4- and mTOR-Dependent Manner.			
3.	munity by periodontopathic bacteria via exploitation of complement receptor-			
э.				

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Table A2-44, Cluster 43

Cluster 43 focuses on HIV escape mutations, emphasizing the role of the HIV-1 accessory protein Nef in viral pathogenesis, viral replication, and immune escape of HIV-infected cells (553) Consequences of HLA-B*13-Associated Escape Mutations on HIV-1 Replication and Nef Function. Adaptation of HIV-1 to human leukocyte antigen class I. HIV-specific CD8+ T cells: serial killers condemned to die? Translation of HLA-HIV associations to the cellular level: HIV adapts to inflate CD8 T cell responses against Nef and HLA-adapted variant epitopes. Modelling the spread of HIV immune escape mutants in a vaccinated population. Role of HIV-specific CD8(+) T cells in pediatric HIV cure strategies after widespread early viral escape. Virological and immunological correlates of HIV post-treatment control after temporal antiretroviral therapy during acute HIV infection. Relative Resistance of HLA-B to Downregulation by Naturally Occurring HIV-1 Nef Sequences. Temporal loss of Nef-epitope CTL recognition following macaque lipopeptide immunization and SIV challenge. Microdevices for examining immunological responses of single cells to HIV. Anti-HIV potency of T-cell responses elicited by dendritic cell therapeutic vaccination. Nef: a pleiotropic modulator of primate lentivirus infectivity and pathogenesis. HIV: current opinion in escapology. Evolution of human immunodeficiency virus type 1 cytotoxic T-lymphocyte epitopes: fitness-balanced escape. Clustering patterns of cytotoxic T-lymphocyte epitopes in human immunodeficiency virus type 1 (HIV-

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Table A2-46, Cluster 45

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Table A2-48, Cluster 47

Cluster 47 focuses on fungal pathogens, especially the interactions of Candida albicans with innate host defense and its escape strategies (359)

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Table A2-49, Cluster 48

Cluster 48 focuses on Type 1 interferon, emphasizing viral pathogen-induced mechan	
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Table A2-52, Cluster 51

	Cluster 51 focuses on parasites (especially Trypanosoma cruzi, Leishmania, and Toxoplasma gondii),
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	The pathogenicity and virulence of Toxoplasma gondii.
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The enemy within: lipid asymmetry in intracellular parasite-host interactions.

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cells.
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Host-Toxoplasma gondii Coadaptation Leads to Fine Tuning of the Immune Response.
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Table A2-53, Cluster 52

Cluster 52 focuses on Streptococcus pneumoniae, emphasizing pathogenicity, virulence, and immune system evasion (366)

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Table A2-54, Cluster 53

Cluster 53 focuses on Salmonella typhimurium and other bacteria, emphasizing their pathogenicity,
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Table A2-55, Cluster 54

Cluster 54 focuses on influenza viruses, emphasizing the role of mutations in immune escape variants (643)

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Table A2-57, Cluster 56

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Checkpoint inhibitors: the new treatment paradigm for urothelial bladder cancer.

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Table A2-58, Cluster 57

Cluster 57 focuses on bacteria (especially Neisseria meningitidis), emphasizing their pathogenesis and immune suppressive mechanisms (394)

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Table A2-59, Cluster 58

Cluster 58 focuses on T cells (especially CD8+), emphasizing the role of T cell response suppression (in the tumor microenvironment) in immune system evasion (1478)

Tumor Eradicatio	eneic CD4+ T Cells Rescues CD8+ T Cells in Anti-PD-L1-Resistant Tumors Leading to
	Protein Enables CD4+ T Cell Help for Adoptive T Cell Therapy in Models of
	r and Non-hodgkin Lymphoma.
	hocytes: role in immunosurveillance and in immunotherapy].
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Mechanism of T	cell tolerance induced by myeloid-derived suppressor cells.
Dual control of a	ntitumor CD8 T cells through the programmed death-1/programmed death-ligand 1
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Up-regulation of CD8(+) T cells.	PD-L1, IDO, and T(regs) in the melanoma tumor microenvironment is driven by
Dendritic Cells ar	d CD8 T Cell Immunity in Tumor Microenvironment.
	diated Immunoediting Influences Genomic Evolution and Immune Evasion in Murine
Gliomas.	-
Tumor progression	on despite massive influx of activated CD8(+) T cells in a patient with malignant
melanoma ascite	S.
Suppression of T	cell responses in the tumor microenvironment.
Tumor-derived cl	nemokine CCL5 enhances TGF- β -mediated killing of CD8(+) T cells in colon cancer by
T-regulatory cells	
PLA2G2A(+) canc	er-associated fibroblasts mediate pancreatic cancer immune escape via impeding
antitumor immur	ne response of CD8(+) cytotoxic T cells.
Chimeric NKG2D	expressing T cells eliminate immunosuppression and activate immunity within the
ovarian tumor m	croenvironment.
Increased PD-1 e	xpression on CD4+ and CD8+ T cells is involved in immune evasion in gastric cancer.
An intra-tumoral	niche maintains and differentiates stem-like CD8 T cells.
Basophils Promo	e Tumor Rejection via Chemotaxis and Infiltration of CD8+ T Cells.
Turning on/off tu	mor-specific CTL response during progressive tumor growth.
Metabolic Regula	tion of CD8(+) T Cells: From Mechanism to Therapy.
Enhancement of	adoptive T cell transfer with single low dose pretreatment of doxorubicin or
paclitaxel in mice	
The elevated exp	ression of LAG-3 on CD8+T cells correlates with disease severity of pulmonary TB.
HMGB2 regulate	s the differentiation and stemness of exhausted CD8(+) T cells during chronic viral
infection and can	cer.
SMAR1 promotes	immune escape of Tri-negative Breast Cancer through a mechanism involving T-
bet/PD-1 Axis.	· · · · · ·
Intratumoral CXC	L13(+)CD8(+)T cell infiltration determines poor clinical outcomes and
immunoevasive o	ontexture in patients with clear cell renal cell carcinoma.
Trypanosoma cru	zi-specific CD8(+) T cells and other immunological hallmarks in chronic Chagas
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Selection of Tumor-Specific Cytotoxic T Lymphocytes in Acute Myeloid Leukemia Patients Through the Identification of T-Cells Capable to Establish Stable Interactions With the Leukemic Cells: "Doublet Technology".

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minibition of nost Ogri enhances effector CD8(+) I-cell function by modulating acid microenvironment.

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Table A2-60, Cluster 59

Cluster 59 focuses on cancer immunotherapy, emphasizing the targeting of cancer immune evasion (1368)

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Table A2-62, Cluster 61

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Table A2-63, Cluster 62

Cluster 62 focuses on cancer, especially the mechanisms of cancer progression and metastasis and their relation to epithelial-mesenchymal plasticity and immune evasion (869)

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Appendix 3 – Contributing Factors to Immune System Dysfunction

This appendix contains the methodology for retrieving dysfunctional immune system CFs from our 2020 monograph (<u>https://repository.gatech.edu/entities/publication/a5c9c8e9-8cc9-4588-a065-2be90b43b8dc</u>), as well as a listing of these CFs.

METHODOLOGY

The methodology, reproduced from Chapter 2 of the monograph, is as follows:

"The main analytical objective of this study is to identify factors that contribute to weakening of the immune system. Toward this end, a query was generated that would retrieve records with high probability of containing such factors. The query retrieved 10,733 records from Medline. Some additional records (identified from those records retrieved with the query) were also used for the analysis. The retrieved records were inspected visually, and contributing factors were extracted manually.....The query used to retrieve these records from SCI-Medline is shown boxed below."

FINAL QUERY USED FOR STUDY SCI-MEDLINE
MESH (/adverse effects OR /toxicity OR /poisoning) AND TITLE (immun* AND (expos* OR induc OR exacerbat* OR aggravat* OR trigger* OR disrupt* OR impair* OR dysfunction* OR suppress*))
OR
UK
MESH (/adverse effects OR /toxicity OR /poisoning)
AND
TITLE immun*
AND
TOPIC IMMUNOTOXIC*
OR
TITLE IMMUNOTOXIC* OR IMMUN* NEAR/3 IMPAIR*

"Initially, a much broader query was developed, and it retrieved tens of thousands of records. However, given that the projected analysis would be labor intensive, with visual inspection of the retrieved records and manual extraction of contributing factors, it was decided to generate a more focused query that would retrieve fewer records, but with higher probability of relevance (precision). The boxed query achieved that goal."

SUMMARY RESULTS

The following is a reproduction of Chapter 3 of the 2020 monograph, which contains the summary results. The numbering of tables is that used in the monograph.

"Approximately 65% of the retrieved records were evaluated. The extracted contributing factors were assigned to one of five categories (Lifestyle, latrogenic, Biotoxin/Biomaterial,

Occupational/Environmental, Psychosocial/Socioeconomic), even though many of the contributing factors could have been assigned to multiple categories. Table 3-1 contains contributing factors that have been shown repeatedly to weaken the immune system. They include:

TABLE 3-1

HIGH-FREQUENCY CONTRIBUTING FACTORS TO WEAKENED IMMUNE SYSTEM

CATEGORY	CONTRIBUTING FACTOR
LIFESTYLE	smoking, excess alcohol, substance abuse, high-fat diet, protein-
	deficient diet, high-cholesterol diet, Western-style diets, chronic sleep
	restriction, etc.
IATROGENIC	immunosuppressive drugs, gamma radiation treatments,
	nanomedicinal products, adjuvanted vaccines, acetaminophen, non-
	steroidal antiinflammatory drugs (NSAIDs), surgical stress, serotonin
	reuptake inhibitors, selected anasthetics, selected antibiotics, highly
	active antiretroviral therapy drugs, etc.
BIOTOXIN/ BIOMATERIAL	aflatoxin, ochratoxin, T-2 toxin, anatoxin-A, mycotoxins, microcystin-
	LR, dietary toxic cyanobacteria, yessotoxin, scorpion venom;
	Streptomyces californicus; Pseudomonas aeruginosa; Rhinovirus,
	respiratory syncytial virus, etc.
OCCUPATIONAL/	microplastics, endocrine-disrupting chemicals, heavy metals,
ENVIRONMENTAL	pesticides/insecticides/herbicides, nanoparticles, perfluorooctanoic
	acid (PFOA), polychlorinated biphenyls (PCBs), polyaromatic
	hydrocarbons (PAHs), perfluorooctanesulfonate (PFOS), fine
	particulate matter, air pollution, acrylamide, aromatic halogenated
	disinfection byproducts, benzene, benzo(a)pyrene, crude oil, corexit,
	ultraviolet (UV) radiation, wireless radiation-cell phones/cell
	towers/WiFi, sodium fluoride, etc.
PSYCHOSOCIAL/	depression, chronic stress, restraint stress, social isolation, stressful
SOCIOECONOMIC	life events, childhood adversity, etc.

Eliminating/ameliorating these toxic exposures/behaviors will require a combination of individual motivations/efforts and government efforts, especially at the regulatory level. The factors in the Lifestyle category mainly require motivation and willpower to eliminate, although government regulation would be beneficial for controlling food additives and labelling contents of processed foods. For the latrogenic category, government regulation is necessary for ensuring treatment safety. There is room for individual motivation in eliminating excessive or unnecessary use of painkillers, such as NSAIDs or opioids, and unnecessary/elective surgeries.

Members of the Biotoxin/Biomaterial category (especially the Biotoxin component) are more difficult for individuals to eliminate. As we are seeing with COVID-19, virus exposure is difficult to control (as is bacterial exposure). There are many mycotoxins listed in Table 3-1. Those found in food may result from improper storage and insufficient processing to eliminate mycotoxins. Those in indoor environments may result from insufficient moisture/humidity control. Some of these problems can be addressed by stricter government regulations.

The Occupational/Environmental category could benefit substantially from more rigorous government regulation. Most of the exposures are beyond the control of the individual; in fact, the individual most probably doesn't know he/she is being exposed to these substances.

For example, the Occupational Safety and Health Administration (OSHA) has responsibility for regulating most workplace toxic exposures. Out of the more than 85,000 chemicals registered with the EPA, OSHA issues Federally-enforceable Permissible Exposure Limits (PELs) for about 500 of these chemicals. In 2018, the first author published a study of the adequacy of OSHA's PELs [20], using a sampling technique. Of those substances that were sampled, their PELs were one-four orders of magnitude higher than exposures shown in the biomedical literature to cause damage.

As another example, the radiation exposure limits for wireless radiation (cell phone/cell towers/WiFi, etc.) approved by the FCC are from three-six orders of magnitude higher than exposures shown in the biomedical literature to cause damage, the discrepancy varying with the level of damage [21].

But, even in this category, individual choice and motivation play a role. People who want to strengthen their immune systems can choose (especially in the home environment, and partly in the work environment) to reduce exposure to wireless radiation, water with sodium fluoride, strong pesticides, strong disinfectants, etc.

The PsychoSocial/SocioEconomic category could benefit from some government interventions that reduce stressful situations for the individual (e.g., providing economic/health/occupational security, providing more protections for the most vulnerable (very young, elderly, disabled), etc.). Some of the types of adverse events and stresses are beyond the control of government or the individual, but here again, the individual can take steps to improve their responses to many of these types of stress.

Most of the studies, especially the laboratory studies, that gathered the data reported in Table 3-1 and the more extensive <u>Table A4-1</u> (shown in <u>Appendix 4</u>) focused on the effects of one stressor/toxic stimulus in isolation. In real-life, people are exposed to myriad toxic stimuli, both in parallel and over different time periods. Typically, when toxic stimuli are combined, less of each constituent of the combination is required to cause damage compared to the amount determined from single stressor

experiments [22]. Thus, real-life weakening of the immune system from myriad exposures to the toxic stimuli in Table 3-1 (and Table A4-1) is far greater than that reported in the single toxic stimulus studies.

To summarize, repurposed (mainly) antiviral treatments can only be expected to have very limited results in controlling SARS-CoV-2 viral load of the most severely impacted, based on trials conducted so far. Further, based on the findings of <u>Appendix 3</u>, it is difficult to see how safe COVID-19 vaccines can be developed and fully tested on time scales of one or two years, as proposed presently.

Finally, the only real protection against a future COVID-19 pandemic or any other viral pandemic is the one that was demonstrated to work in the SARS, MERS, COVID-19 and annual influenza pandemics: a healthy immune system capable of neutralizing incoming viruses as nature intended. We need an Operation Warp Speed (the Federal Administration Program currently targeted to produce a vaccine in a record short time period in the USA) to identify and eliminate those factors that weaken the immune system as thoroughly, comprehensively, and rapidly as possible!"

DETAILED RESULTS

Appendix 4 of the 2020 monograph is reproduced in the following section. The numbering is that used in the 2020 monograph. A4-A lists the CFs to a dysfunctional immune system, and A4-B lists the titles of the records from which the CFs were derived.

"A4-A. Contributing Factors to Weakened Immune System

This section presents the complete list of factors that contribute to weakening of the immune system based on our analysis of the retrieved data base. About 10,800 records were retrieved using the query shown in Chapter 2 (and other records identified in the course of the analysis), about 7,000 of these records were analyzed, and about 4,700 (of the 7,000) records identified factors that contributed to weakening of the immune system. The contributing factors from these ~4,700 records were aggregated, and slightly over 2,200 contributing factors were entered into the table below. Not all redundancies were eliminated, but if even on the order of 30% redundancy exists, this means that about 1,500 contributing factors to weakening the immune system have been identified.

This is a very conservative estimate. The query in <u>Chapter 2</u> was written to retrieve those articles most relevant to immune-weakening factors, given the labor-intensive approach taken to identify these factors from the retrieved articles. A much more expansive query, albeit with less precision, would have retrieved tens of thousands of articles, and produced many more contributing factors.

But, the 1,500 constitute a large number, are far more than we have seen in any one article, and probably cover all the major contributing factors. Any measures that an individual or government regulator can take for protecting the health of the immune system will only be able to deal with a small fraction of the 1,500 already identified, at least initially.

Commented [MA1]: Make a reference to the Table in this section, and also qualify that though comprehensive it is unlikely to include all all factors

TABLE A4-1

CONTRIBUTING FACTORS TO WEAKENED IMMUNE SYSTEM

LIFESTYLE		
advanced glycation end products	high-cholesterol diet	
age	high-fat-diet	
alcohol abuse	hygiene hypothesis	
aniline-adulterated rapeseed oil	ice cream	
Argemone oil	isobutyl nitrite	
Biomass smoke exposure	isoflavones	
Caesarian delivery	linoleic acid	
cannabinoid	linolenic acid	
cheese	Low dietary n – 3 fatty acid	
chronic Sleep Restriction	Low prenatal-neonatal animal bacterial	
	exposures	
cigarette smoking	Maize prolamins	
cinnamaldehyde	Malnutrition	
cocaine	Maternal separation in early life	
cow's milk insulin	Maternal smoking	
crack	Maternal undernutrition	
dietary biotin deficiency	medication use	
dietary excess lipids	methamphetamine	
dietary fatty acid intake	methylenedioxymethamphetamine	
dietary Iron Deficiency	Microbial depletion in early environment	
dietary iron excess	minced pork	
dietary low lipids	minced turkey	
dietary niacin deficiency	mobile phone	
dietary oxidized lipids	morphine dependence	
dietary phosphorus deficiency	n-propyl gallate	
dietary protein restriction	Obese pregnancy	
dietary pyridoxine deficiency	opioid	
dietary thiamin deficiency	paracetamol	
dietary valine deficiency	peanuts	
Dietary zinc deficiency	peppermint oil	
diet-induced obesity	phencyclidine	
drug abuse	phloretin-contained fruits	
Early antibiotic use	Prenatal nutrient energy overload	
Early life diet	Prenatal nutrient-insufficiency	
Early weaning stress	Protein malnutrition	
E-cigarette	protein-deficient diet	
Ecstasy	recreational drugs	
ethanol consumption	rectal insemination	
ethanol intoxication	Red meat consumption	
excess dietary cholesterol	Reduced neonatal microbial environment	
excessive Se	sedentary	

extended contact lens wearing	Selenium deficiency
	snuff
fast-food burger	Sodium nitrite
fatty acid anilides fetal alcohol exposure	sodium nitrite synthetic food additive antioxidants
fish extracts	
	Tetrahydrocannabinol
fish oil supplementation	tobacco smoking
Flavored e-cigarette liquids	traffic pollution
folic acid deficiency	vitamin A deficiency
formula feeding	vitamin B-12 deficiency
genistein	vitamin B-6 deficiency
Glue solvent	vitamin C deficiency
gluten	vitamin D deficiency
heavy competition	Western-style diets
heavy training	Wheat Gluten
high fat diet	yoghurt
high glucose exposure	zinc deficiency
high n – 6 fatty acid-trans fat	
	GENIC
([2-fluoro-2',5'-dimethyl-4'-[6-(3-methyl-2-	indomethacin
butenyloxy) pyridin-3-yl] biphenyl-4-yl]-(3-	
methyl-2-butenyl) amine)	
(S)-1-(3-hydroxy-2-phosphonylmethoxy propyl)	Infliximab
cytosine	
145-2C11	influenza vaccination
17alpha-ethinyl estradiol	influenza vaccine
17beta-estradiol	Inteferon alpha/beta
18beta-Glycyrrhetinic acid	Interferon alfacon-1
1-chloro-2,4-dinitrobenzene	Interferon alfa-n3
2,2'-dichlorodiethyl sulfide	interferon alpha
2,4-Dichlorophenoxybutyric acid	interferon alpha therapy
2-[bis(2-chloroethyl)amino]tetrahydro-2H-1,3,2-	Interferon beta-1a
oxazophosphorine 2-oxide	
2'3'-Dideoxyinosine	interferon type 1
2-amino-2-(2-[4-octylphenyl]ethyl)-1,3-	Interferon-alpha
propanediol hydrochloride	
2-aryl carbapenem	interleukin 2 receptor antibody
2'-deoxycoformycin	intravenous gammaglobulin
3,3'-Diindolylmethane	Intravenous immunoglobulin
3'-Azido-2',3'-dideoxythymidine	Intravenous immunoglobulin G
3-methyl-2-quinoxalin benzenevinylketo-1, 4-	ipilimumab
dioxide	
4AZA1378	iproniazid
5 alpha-dihydrotestosterone	iproniazide
5-azacytidine	irinotecan
5'-deoxy-5-fluorouridine	isoflurane
5'-DFUR	Isoniazid

5'-dFUrd	isoproterenol
5-fluorouracil	ivermectin
6-fluoro-8-nitro-4-oxo-1,4-dihydroquinoline-3-	Ixabepilone
carboxylate	
9-(N-methyl-L-isoleucine)-cyclosporin A	ixazomib
abacavir	JAK-inhibitors
abatacept	ketorolac
abciximab	Keyhole limpet haemocyanin
Abeta immunization	L. acidophilus
Abetimus	lamivudine
acetaminophen	Lamotrigine
Acetylsalicylate	L-arginine
acetylsalicylic-acid	L-canaline
Acteoside	L-canavanine
Actinomycin D	Leflunomide
acyclic retinoid	left ventricular assist device
acyclovir	Lenalidomide
Adalimumab	leuprolide acetate
adenosine 5'-monophosphate (AMP) Quantum	levamisole
dots (QDs) (AMP-QD)	
Adjuvanted vaccines	Linezolid
adjuvants	lipidated TN-ApoA-I
Adriamycin	liposomal drugs
ADTP vaccine	liguamycin 200
Advagraf	Lomustine
Afelimomab	lopinavir
Aldesleukin	Lorabid
Aldosterone	loracarbef
Alefacept	lorazepam
alemtuzumab	L-tryptophan
alendronate	lymphocyte immune globulin
alfathesin	M344
alkylating chemotherapy	mAbs
allogeneic bone marrow transplantation	major surgery
allogeneic hematopoietic stem cell transplant	mammary silicone implants
allopurinol	m-carboxy-cinnamicacidbis-hydroxamide
Alloxan	measles, mumps, and rubella vaccine
Alovudine	Mechlorethamine
alpha-ethinylestradiol	medical devices in contact with the blood stream
alpha-methyldopa	medroxyprogesterone
alpha-momorcharin	medroxyprogesterone acetate
Altretamine	metenamic acid
Ambisome	meglumine antimoniate
amiodarone	Melphalan
Amlodipine	Mepolizumab
•	•
Amoxicillin	Mercaptopurine

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amphenicols	Meropenem
Amphotericin	methadone
Amprenavir	methimazole
Amsacrine	Methotrexate
anabolic androgenic steroid	Methylprednisolone
Anakinra	Midazolam
anesthesia	minocycline
antibiotics	mirtazapine
anticalcineurin	Misoprostol
Anti-CD20	mitoxantron
anti-CD3 monoclonal antibody	Mitoxantrone
anticonvulsants	mizoribine
anti-CTLA-4 antibody	Mometasone
Anti-D immunoglobulin	Mometasone furoate
anti-d(beta)h-saporin	monoclonal anti-16/6 Id antibody
antilymphocyte globulin	monoclonal antibodies
anti-programmed death 1	Monoclonal antilymphocyte antibodies
antiretroviral agents	Monomethyl fumarate
antithymocyte globulin	Morphine
anti-thymocyte globulin treatment	morphine sulfate
Antituberculosis drug	moxifloxacin
antiviral treatment	murine-derived monoclonal CD3 antibody
antiviral vaccines	muromonab
Apicidin	Mycophenolate Mofetil
Apremilast	mycophenolate sodium
Arctigenin	Mycophenolic acid
Aripiprazole	Mycophenolic acid
artemisinin	N4-Trimethoxybenzoyl-5'-deoxy-5-fluorocytidine
aspirin	N-acylhydrazone
Atgam	nanomedicinal products
ATG-Fresenius S	nanoparticle-formulated drugs
atropine	naproxen
AZA	Natalizumab
Azacitidine	N-desmethylclozapine
Azathioprine	Nelarabine
azidothymidine	neomycin
azithromycin	nevirapine
bacille Calmette-Guerin vaccine	N-hydroxy-7-(-4-
	dimethylaminobenzol)aminoheptanamide
Bariatric Surgery	nifedipine
basiliximab	Nilotinib
Begelomab	nitrofurantoin
Belatacept	nitrogen mustard
Belimumab	Nivolumab
Belinostat	nomifensine
Bendamustine	non-steroidal anti-inflammatory drugs

	•
benzocaine	norfloxacin
Berberine	Norfloxacin nicotinate
Beta-diketone antibiotics	novobiocin
beta-lactam antibiotics	NSAIDs
betalactams	nucleic acid-based therapeutics (NATs) by a
	nanocarrier
Betamethasone	Obinutuzumab
Bevacizumab	Ocrelizumab
Bexarotene	ofatumumab
bezafibrate	Ofloxacin eyedrops
Biopin	Olaparib
Bisphosphonates	omega interferon
Bleomycin	open-heart surgery
Blinatumomab	operation
Blood transfusion	oral antibiotic treatment
bone marrow transplantation	Oryza sativa
Bortezomib	oseltamivir
Bosutinib	Oxaliplatin
BR96 sFv-PE40	Oxcarbazepine
breast implant	oxytetracycline
Brentuximab vedotin	Ozanimod
Briakinumab	Paclitaxel
Brodalumab	Palbociclib
Bucillamine	Panitumumab
Budesonide	Panobinostat
buprenorphine	Paramethasone
Busulfan	Paroxetine
butalbital	Pazopanib
Cabazitaxel	Peficitinib
calcineurin inhibitors	Pefloxacin
Calcium folinate	Pegaspargase
calcium hydroxylapatite	Peginterferon alfa-2a
Canakinumab	Peginterferon alfa-2b
Capecitabine	Peginterferon beta-1a
Carbamazepine	pembrolizumab
Carbendazim	Pemetrexed
Carboplatin	Penicillamine
carboxyphosphamide	penicillin
cardiac surgery	penicillin G
cardiopulmonary bypass	pentamidine
carfilzomib	Pentamidine isethionate
Carmofur	Pentosan
Carmustine	Pentostatin
Castanospermine	pentylenetetrazole
catecholamine	peplomycin
cecal ligation and puncture	peritoneal dialysis

cefotetan Cefteridius	permethrin Phanna and an
Ceftazidime	Phenprocoumon
ceftriaxone	Phenylalanine
Cefuroxime	phenytoin
Celecoxib	Phospholipid-based phase separation gel
cephalosporin	photodynamic therapy
Certolizumab pegol	Photoimmunotherapy
Cervus korean TEMMINCK var. mantchuricus	pimecrolimus
Swinhoe	
chemoradiation therapy	Piperacillin
chemotherapeutics	piperine
chemotherapy	Piracetam
Chinese medicine injection	Pirarubicin
chlorambucil	Pirfenidone
chloramphenicol	Plasma-derived Human serum albumin p
chlordecone	pneumococcal 13-valent/23-valent
	polysaccharide vaccine
Chlorhexidine	Pneumococcal vaccine
chloroquine	poliomyelitis vaccine
chlorpromazine	polivalent immunoglobulins
cholinotropic preparations	polyclonal antilymphocyte antibodies
cidofovir	polyclonal antithymocyte antibody
Cimetidine	Polylactic-co-glycolic acid nanoparticle
ciprofloxacin	polymerized porcine hemoglobin
cisplatin	pomalidomide
Cis-platinum	Ponatinib
citalopram	Poppers
Cladribine	post-bone marrow transplant
clavulanic acid	Pralatrexate
Clemastine	Prednicarbate
Clofarabine	prednisolone
clometacin	prednisone
Clonazepam	Prednylidene
clozapine	Preoperative Chemoradiotherapy
colchicine	previcur
combination antiretroviral therapy	procainamide
Complete Freund's adjuvant	Procarbazine
congenital heart disease surgery	progesterone
cord blood transplantation	Prograf
Coriandrum sativum	propranolol
corticoid	Propylthiouracil
corticosteroids	propyphenazone
corticosterone	Protamine
Corticotropin	psoralen
cortisol implants	PUVA treatment
Cortisone acetate	PYCNOGENOL
	I ICNOULINUL

cotrimoxazole	Pyrazinamide
cranial radiotherapy	pyrimethamine
Cremophor-EL	Qingkailing
CsA	quinine
CT20126	rAAV gene medicine
cupravit	rabbit antithymocyte globulin
cuprizone	radio-immunotherapy
Cyclophosphamide	radioiodine therapy
Cyclophosphamide	radiotherapy
cyclosporin	Raltitrexed
cyclosporine	rapamycin
cyclosporine G	Ravulizumab
Cytarabine	recombinant 19-kDa antigen
cytokine gene therapy	Recombinant human granulocyte-macrophage
	colony-stimulating factor
cytostatic drugs	renal allografts
cytotoxic drug therapy	rhGM-CSF
cytoxan	Rhododenol
Dacarbazine	rHulFN-alpha
daclizumab	ribavirin
Dactinomycin	Rifabutin
daptomycin	Rilonacept
Dasatinib	rimantadine
Daunorubicin	Rimexolone
DaunoXome	Risankizumab
death-ligand 1 antibodies	Risperidone
Decitabine	ritonavir
Deflazacort	Rituximab
Delta(9)-tetrahydrocannabinol	RN6G
Deoxyspergualin	Ro 09-1390
derivative of gamma-aminobutyric acid	romidepsin
dexamethasone	Rosuvastatin
Dexrazoxane	Rozanolixizumab
DHPG	rubella vaccine
diazepam	Ruxolitinib
diclofenac	S-2678
didanosine	Sanguinarine
diethylstilbestrol	Sarilumab
Digoxin	Secukinumab
dihydralazine	Seocalcitol
dilantin	serotonin reuptake inhibitors
Dimethyl fumarate	sevoflurane
Dinutuximab	silicon breast implant
diphenylhydantoin	Siltuximab
diphtheria-tetanus-poliomyelitis vaccine	Siponimod
Docetaxel	Sirolimus
Detectanel	

al a lutha annau din	Circulaument
dolutegravir Dow2	Sirukumab SK&F 95654
Dow2 Doxifluridine	Sorafenib
Doxil	
Doxil	splenectomy
	statins
d-penicillamine	stavudine
drospirenone	stem cell transplantation
drug G1	Stepronin
Eculizumab	steroids
Efalizumab	Streptozocin
efavirenz	SU5416
enemas	suberoylanilide hydroxamic acid
enfuvirtide	sulfamethazole
Epirubicin	sulfamethoxazole
equine antithymocyte globulin	sulfapyridine
Eribulin	Sulfasalazine
erythromycin	sulfisoxazole
Estradiol	sulfur mustard
Estramustine	sulindac
etanercept	sulphadiazine
ETC-216	sulphamethoxazole
ethinylestradiol	Sulphonylurea
Ethyl 4-isothiocyanatobutanoate	Sunitinib
etoposide	Supplemental oxygen
Everolimus	Surgery
fenofibrate	Surgical damage
fenofibric acid	surgical stress
Feraheme	surgical trauma
fibrates	Synthetic human chorionic gonadotropin-related
	oligopeptides
Fingolimod	tabalumab
FK 506	Tacrolimus
FK-50	Tamoxifen
flavivirus vaccination	tazobactam
Florfenicol	Tedizolid phosphate
Floxuridine	tegafur
Fluazuron	teicoplanin
flucloxacillin	Temozolomide
fluconazole	Temsirolimus
Flucytosine	Teniposide
fludarabine	tenofovir
Fludrocortisone	Tepoxalin
fluocinolone acetonide	teriflunomide
Fluoroquinolones	Tetracyclines
Fluorouracil	Tetrandrine
Fluoxetine	TGN1412

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foscarnet	thalidomide
FTY720	thiamphenicol
Fusidic acid	thiazolidinedione
Gadobutrol	thiopental
Gallium nitrate	Thiopronine
ganciclovir	Thiopurine agents
gastrectomy	Thiotepa
gemcitabine	thoracic transplantation
gemfibrozil	thymectomy
Gemtuzumab ozogamicin	thymoglobulin
gentamycin	ticlopidine
Glatiramer	tienilic acid
Glimepiride	Tioguanine
Glivec	tirofiban
glucocorticoids	Tixocortol
GM-CSF vaccine	tobramycin
Golimumab	Tocilizumab
gosereline acetate	Tofacitinib
Granulocyte colony stimulating factor	Topotecan
Gusperimus	Tositumomab
HAART	total-body gamma radiation
haloperidol	total-body irradiation
halothane	Trabectedin
hCG-related oligopeptides	Trastuzumab emtansine
HDAC inhibitors	tremelimumab
hematopoietic stem cell transplantation	trenbolone acetate
hemodialysis	Treponema spp.
Heparin	Tretinoin
Hepatectomy	Triamcinolone
Hepatitis B immunoglobulin	triamterene
hepatitis B vaccine	triazene compounds
hgd40	trichosanthin
highly active antiretroviral therapy	Trichostatin A
Histone deacetylase inhibitors	Trifluridine
Human immunodeficiency virus protease	Trilostane
inhibitors	
human papilloma virus vaccine	trimethoprim
Hydantoin	Triptolide
hydralazine	Trofosfamide
hydrochlorothiazide	troglitazone
hydrocortisone	Trovafloxacin
Hydroxychloroquine	tumor necrosis factor alpha antagonists
hydroxyethyl starch	Tyrosine kinase inhibitors
hydroxylamine	Ulobetasol
hydroxyurea	Umbilical cord blood transplantation
Hypericin	Umirolimus
11	

Ibritumomab tiuxetan	ustekinumab
Ibrutinib	vaccinations
ibuprofen	vaccines
icotinib	valproic acid
ID35	vancomycin
Idarubicin	Vedolizumab
Idelalisib	Venlafaxine
IFN-alpha	Venocuran
IFN-beta	verapamil
Ifosfamide	Verapamil hydrochloride
IgG immune complex	vesnarinone
IK blockers	vigabatrin
IL-15 superagonist	Vilanterol
Imatinib	Vinblastine
Imiquimod	Vincristine
immune checkpoint inhibitors	Vindesine
immunoglobulin G immune-complex	Vinorelbine
immunoglobulins	Voclosporin
immunomodulatory monoclonal antibodies	Vorinostat
immunostimulatory oligodeoxynucleotide	Warfarin
immunosuppressants	Wortmannin
Immunosuppressive acid protein	YF vaccine
immunosuppressive agents	Zalcitabine
immunosuppressive drugs	zanamivir
immunosuppressive induction therapy	zidovudine
Indinavir	
	IOMATERIALS
09 LPS	Human immunodeficiency virus
192 IgG-saporin	Human leucocyte antigen G
ATCC 25285	Human Pappilomavirus
A.actinomycetemcomitans	Human respiratory syncytial virus
Aahl	Human Rhinovirus
Aahll	Indoxacarb
Abscisic acid	Influenza A virus protein PB1-F2
aerosolized porcine brain	influenza virus
aflatoxin	Interleukin-10
Aflatoxin B	kainic acid
Aflatoxin B1	kaliotoxin
aflatoxin M1	Kaposi's sarcoma-associated herpesvirus
aflatoxins	ketones
Airborne fungus	lacto-N-fucopentaose3
alcohols	Lichen planus
Amylosin	Lipopolysaccharides
Anatoxin-a	lymphocytic choriomeningitis virus
Androctonus australis hector scorpion venom	M. tuberculosis
Anthrax lethal toxin	malondialdehyde
	maionulaluellyue

Anti-dopamine beta-hydroxylase immunotoxin	Marek's disease virus
antigenic peptide P815E	measles virus infection
Antx-a	microcystin-LR
Asobara japonica venom	microcystins
Aspergillus fumigatus spores	milky sap of F. carica
Aspergillus versicolor	Mitomycin
Ataxin-1 oligomers	mitomycin C
atranone A	Mixed mold mycotoxicosis
atranone C	moisture-damaged buildings
B. forsythus	moniliformin
Bacillus Calmette-Guerin	Monocrotaline
Bacillus thuringiensis israelensis	Moraxella catarrhalis
bacterial	mould
bacterial infections during pregnancy	Murine gammaherpes-virus-68
Bacteroides fragilis	Mus m 1
beauvericin	Mycobacteria tuberculosa adjuvant
Berthellina citrina	Mycobacterium marinum
beta-(1,3)-glucan	Mycobacterium tuberculosis
bilirubin	Mycobacterium xenopi
Bordetella pertussis	Mycolactone
Borrelia burgdorferi	Mycotoxicoses
Bovine viral diarrhea virus	mycotoxins
brevetoxin	Neonatal infections
brown recluse spider venom	nivalenol
Brucella melitensis	Nodularin
bursal disease virus	Nomuraea rileyi
butylated hydroxytoluene	NTHI
C. albicans	ochratoxin A
C. perfringens	ochratoxin B
C. rectus	okadaic acid
Candida albicans water soluble fraction	oleic acid
Capnocytophaga	opportunistic infections
cardiac glycoside	organic dusts
carrageenan	ovalbumin
catalase	P. gingivalis
chitosan	P. intermedia
Chlamydia pneumoniae	Pam3Cys
cholera toxin	Pasteurella haemolytica A1 lipopolysaccharide
Chronic Viral Infection	pathogen-associated molecular patterns
Chrysaora quinquecirrha venom	Patulin
Cis-urocanic acid	peptidoglycan
citrinin	peptidoglycan-polysaccharide
clade B human immunodeficiency virus	pertussis toxin
Clostridium perfringens	phorbol ester
CMV	phytoestrogen
cobra venom factor	Plasmodium

Coinfaction with an intection helprinth	nellen
Coinfection with an intestinal helminth	pollen Delveretheveleted flevere evtreet
collagen	Polymethoxylated flavone extract
concanavalin A	Polyomavirus BK
Contact allergens	porcine serum
Cotesia chilonis venom	Porphyromonas gingivalis
coxsackievirus B3	Premolis semirufa
cryopreserved mesenchymal stromal cells	Prevotella intermedia
cyanobacteria	Prolactin-induced protein
cyanobacterial metabolites	Proteoglycan
cyanotoxin	protozoan parasites
Cyclopiazonic acid	Pseudomonas aeruginosa
Cylindrospermopsin	Pseudomonas exotoxin A
Cytomegalovirus	Pteridium aquilinum
daphnane diterpene esters	Pteromalus puparum venom
Demodex mites	ragweed
Dengue Infection	Recombinant interleukin-2
deoxynivalenol	respiratory pathogens
Dermatophagoides pteronyssinus group 5	Rhein
D-galactosamine	Rhinovirus
D-galactose	ribosome inhibiting protein
dinoflagellate genus Alexandrium	ricin toxin A
domoic acid	Rotavirus
dust	Royal jelly
dust mite	rubella
E. coli endotoxin	rubratoxin B
E. nodatum	S. intermedius
EBV	S. mutans
Echinacea	S.aureus
echinococcal	saporin
endotoxin	Schistosoma mansoni
enniatin B	Scleroderma guani venom
Epstein-Barr virus	sepsis
Escherichia coli 0:14 lipopolysaccharide	settled dust
Escherichia coli lipopolysaccharide	Shiga toxin
estrogen	Simian immunodeficiency virus
estrogenic xenobiotics	SIVcpz
excess Growth hormone	soybean dust
extractable organic matter	spores of basidiomycete fungi
Fasciola hepatica	squalene
flour dust	Stachybotrys chartarum
Francisella tularensis	staphylococcal enterotoxin B
	Staphylococcus aureus
Friend leukemia virus	Staphylococcus epidermidis
FtoxG50	Streptococcus pneumoniae
fumonisin B1	Streptococcus pyogenes
fungal bioaerosols	Streptomyces californicus

fusarenon-X	sulfur-fumigated polysaccharides from Smilax
	glabra Roxb
Fusaric Acid	Superantigens
fusariotoxins	Swainsonine
fusarium T-2 toxin	T-2 toxin
Fusobacterium nucleatum	Taenia solium metacestode
galactosamine	Tat 1-72
Gibberellic acid	tetanus toxin
Ginkgo leaf extracts	Thalassophryne nattereri fish venom
gliadin	thermophilic actinomycete
gliotoxin	Tityustoxin
glucose-6-phosphate isomerase	TLR ligands lipopolysaccharide
Glutamate	toxic cyanobacteria
grain dust	Toxoplasma gondii
gram-negative bacteria	tree pollen
grass pollen	Trichothecenes
Group-A beta-Haemolytic Streptococcus	Tripterygium wilfordii Hook f
H1N1	Tulipalin A
HBV	type II collagen
HCV	Umbelliferae
heat shock protein 65	Ureaplasma parvum
Hepatitis B virus	vaccinia virus
Hepatitis C Virus	viral infections during pregnancy
Histamine	virus-associated hematologic malignancies
HIV	vomitoxin
HIV-1	wheat alpha-amylase inhibitor
house dust mite	xanthine oxidase
HPV-16 E7	vessotoxins
HT-2	zanthoxylamide protoalkaloids
human cytomegalovirus	zearalenone
Human herpesvirus 8	zymosan A
	ENVIRONMENTAL
(90)Sr	hypoxanthine
(Z)-cis-bifenthrin	hypoxia
1,1,1-trichloro-2,2-bis(4-methoxyphenyl)ethane	Imidacloprid
1,1,1-trichloro-2,2-bis(p-chlorophenyl)ethane	imiprothrin
1,1,1-trichloroethane	indeno[1,2,3,c,d]pyrene
1,1-dichloro-2,2-bis(p-chlorophenyl)ethane	indium
1,1-dichloro-2,2-bis(p-chlorophenyl)ethene	Indole-3-butyric acid
1,1-dichloroethylene	Indoxyl sulfate
1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin	industrial aerosols
1,2,3,4,7-pentachlorodibenzofuran	industrial noise
1,2,3,7,8-pentabromodibenzo-p-dioxin	Industrial organic solvents
1,2,3,7,8-pentachlorodibenzo-p-dioxin	Inhaled particles
1,2,3,7,9-PeCDF	intense sound
1,2,4-benzenetriol	iodine excess

1,2:5,6-dibenzanthracene	iodine gadital
1,2-dibromopropane	ionizing radiation
1,2-dichloroethane	iron
1,2-dimethylhydrazine	iron nanoparticles
1,3,6,8-TCDF	iron oxide nanoparticles
1,3-butadiene	iron-containing compounds
1,3-dibromopropane	irradiation
1,4-bis [(2-aminoethyl)amino]-5,8-dihydroxy-	Isocyanates
9,10-anthracenedione dihydrochloride	
1.8 GHz electromagnetic fields	Isophorone diisocyanate
12-methylbenz[a]anthracene	jet fuel
17alpha-ethynylestradiol	Jet-A
17alpha-Methyltestosterone	JP-8
1-Bromobutane	lactic acid
1-bromopropane	lambda-cyhalothrin
1-Chloro-4-(Trifluoromethyl)Benzene	lanthanoids
1-methyl-3-octylimidazolium bromide	lead
1-methyl-4-phenyl pyridinium	lead acetate
1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine	lead nitrate
2,2',4,4'-tetra-bromodiphenyl ether	leptophos
2,2',4,6,6'-Pentachlorobiphenyl	lewisite
2,3',4,4',5-pentachlrorbiphenyl	lindane
2,3,4,7,8-PeCDF	Lipid-based nanoparticles
2,3,4,7,8-pentachlorodibenzofuran	lithium
2,3,5,6-tetrachloro-4-(metylsulphonyl)pyridine	Lithium carbonate
2,3,7,8-tetrabromodibenzo-p-dioxin	lithium chloride
2,3,7,8-tetrachlorinated dibenzo-p-dioxin	long-haul flight
2,3,7,8-tetrachlorodibenzodioxin	low-frequency high-intensity magnetic field
2,3,7,8-tetrachlorodibenzofuran	low-frequency noise
2,3,7,8-tetrachlorodibenzo-p-dioxin	Magnesium sulfate
2,3-dichloro-1-propanol	Malathion
2',3'-dideoxyinosine	mancozeb
2,3-dihydro-2,2-dimethyl-7-benzo-furanol N-	manganese
methylcarbamate	
2,4,6-tribromophenol	matacil
2,4,6-trichlorophenol	Mechanical ventilation
2,4,6-triiodophenol	Mecoprop
2,4,6-trinitrobenzene sulfonic acid	Melamine
2,4,6-trinitrophenyl-N-methyl-nitramine	Mercuric chloride
2,4,6-trinitrotoluene	mercury
2,4,6-triphenyl-4H-selenopyrane	Meso-2,3-dimercaptosuccinic acid
2,4-Diaminotoluene	Mesoporous silica nanoparticles
2,4-dichlorophenol	metal nanoparticles
2,4-dichlorophenoxyacetic acid	metallic mercury vapor
2,4-dinitrofluorobenzene	metal-oxide nanoparticles
2,5-hexanedione	metals
2,0	

2,6,10,14-tetramethylpentadecane	metalworking fluid
2,7-dichlorodibenzo-p-dioxin	meta-nitrotoluene
2100-MHz radiofrequency radiation	methacrylate
2450-MHz microwave	methamidophos
2-acetyl-4(5)-(1,2,3,4-tetrahydroxybutyl)-	Methanol
imidazole	
2-Acetylaminofluorene	methoxychlor
2-amino-1-methyl-6-phenylimidazo[4,5-	methyl bromide
b]pyridine	
2-Aminoanthracene	methyl chloride
2-bromopropane	methyl ethyl ketone
2-Mercaptobenzothiazole	Methyl eugenol
2-methoxyacetic acid	methyl isocyanate
2-methoxyethanol	methyl methanesulfonate
2-methoxyethyl acetate	methyl tertiary-butyl ether
2-octynoic acid	methylmercury
3-(2-chloroethyl)-2(2-mesyloxyethylamino)-	methylmercury chloride
tetrahydro-2H-1,3,2-oxazaphosphorine-2-oxide	
3-(3,4-diclorophenyl)-1,1-dimethylurea	methylmercury sulfide
3,3',4,4',5,5'-hexabromobiphenyl	methylnitrosourea
3,3',4,4',5,5'-hexaCB	methyl-N-nitrosurea
3,3',4,4',5-pentaCB	methylparathion
3,3',4,4',5-pentachlorobiphenyl	methyltetrahydrophthalic anhydride
3,3',4,4'-tetraCB	metribuzin
3,3',4,4'-tetrachloroazobenzene	Microcrystalline cellulose
3,3',4,4'-tetrachloroazoxybenzene	microgravity
3,4,3',4'-tetrachlorobiphenyl	Microparticles
3,4,5,3',4',5'-hexabromobiphenyl	microplastics
3,4,5,3',4',5'-hexachlorobiphenyl	microwaves
3,4-dichloroaniline	millimeter-wave
3,4-dichloropropionanilide	mineral dust
3,4-dichloropropionaniline	mineral oil distillate D-11
3-methyl-4-nitrophenol	mineral oils
3-methylcholanthrene	mining
3-Monochloro-1,2-propanediol	mirex
3-phenoxybenzoic acid	m-nitrotoluene
4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone	moisture-damage
4,4'-thiobis-(6-t-butyl-m-cresol)	mono-2-ethylhexyl phthalate
460-MHz microwaves	mono-iso-decyl phthalate
4-dimethylamino-3-methyl-N-carbamate	mono-iso-nonyl phthalate
4-hydroxy-2-nonenal	Monomethoxy(polyethyleneglycol)-poly (D,L-
	lactic-co-glycolic acid)-monomethoxy (PELGE)
	nanoparticles
4-hydroxydiclofenac	monomethylarsonous acid
4-Methylanisole	mono-n-octyl phthalate
4-nitroquinoline-1-oxide	monophthalates

4-nonylphenol	monosodium urate monohydrate crystal
4-pentylphenol	multiwalled carbon nanotubes
5-(3-3-dimethyl-1-triazeno)imidazole-4-	Municipal wastewaters
carboxamide	
50 Hz amplitude-modulated 2.45 GHz	mustard oil
microwaves	
6:2 fluorotelomer sulfonamide alkylbetaine	N,N,-diethyl-m-toluamide
6:2 FTAB	N,N1-bis(dichloroacetyl)-1,8-octamethylene
	diamine
60Cogamma radiation	N,N-diethylaniline
6-hydroxydopamine	N,N-diethyl-m-toluamide
6-mercaptopurine	N-acetylneuraminic acid
6-propyl-2-thiouracil	Nanoceria nanoparticles
7,12-dimethylbenz(a)anthracene	nanomaterials
8:2 Fluorotelomer alcohol	Nanoparticle protein corona (NP-PC)
835 MHz radiofrequency	nanoparticles
9-(2-hydroxyethoxymethyl)guanine	nanoparticulate TiO2
9,10-dimethylanthracene	nanoplastic particles
900 MHz radiofrequency radiation	Nanoshells
915-MHz microwave radiation	nanosilicas
abamectin	nanosilver
abandoned oil refinery	naphthalenes
abestos	naphthenic acids
acephate	N-bis (2-hydroxypropyl) nitrosamine
Acer3 deficiency	N-Butylbenzene sulfonamide
Acetaldehyde	N-butyl-N-(4-hydroxybutyl) nitrosamine
acetamiprid	NdCl3
Acetochlor	Neb-colloostatin
acetofenate	negatively charged-particle dominant indoor air-
	conditions
acetone	neonicotinoids
acetoxydimethylnitrosamine	N-ethyl, N-nitrosourea
acetyldinaline	neutron irradiation
acid water	NH4VO3
acrolein	n-hexane
acrylamides	nickel
acrylonitrile	nickel aerosols
activated carbon	Nickel nanoparticles
activated-sludge	nickel oxide
Adamsite	nickel subsulfide
Agent Orange	nickel sulfate hexahydrate
agrochemicals	NiCl2
air pollutants	Nicotinamide
air pollution	nicotine
airborne particles	niridazole
airborne particulate matter	nitenpyram

airbarna suspanded matter	nitrito
airborne suspended matter	nitrite
Al citrate	Nitrobenzene
alachlor	Nitrofurazone
aldicarb	nitrogen dioxide
alkylphenol polyethoxylates	nitrogen oxides
alkylphenols	nitrosamines
alpha3(IV) collagen	nitrosomethylurea
alpha-cypermethrin	nitrous oxide
alpha-naphthyl-AS-acetate esterase	N-methyl-D-aspartate
alpha-naphthyl-butyrate esterase	N-methyl-N'-nitro-N-nitrosoguanidine
altered oxygen supply	N-methyl-N-nitrosourea
Alumina nanoparticles	N-nitrosodibutylamine
aluminium	N-nitrosodiethylamine
Aluminium chloride	N-nitrosodimethylamine
Aluminum	N-nitrosodipropylamine
aluminum chloride	N-nitrosomethylbutylamine
aluminum hydroxide	N-nitrosomethylethylamine
aluminum sulfate	N-nitrosomethylpropylamine
aluminum trichloride	N-nitroso-N-methylurea
aluminum-based nanoparticles	noise
ambient particulate matter	non-halogenated p-benzo-1,4-quinone
Aminocarb	nonoxynol-9
amitraz	nonylphenol
ammonia	O,O,S-trimethyl phosphorothioate
Ammonium hexachloroplatinate	O,O-diethyl-O-4-nitro-phenylthiophosphate
ammonium metavanadate	O,O-dimethyl, S-ethyl phosphorothioate
amyl nitrite	o,p-dichlorodiphenyldichloroethylene
anhydride	O,S-dimethyl-acetylphosphoramidothioate
anthracene	O3-degraded AA
antigravitary posture	ocean acidification
antimony	oil exposure
aqueous fraction of PW	oil fly ash
Arabian crude oil	Oil mist
arc welding fume	oil sands process water
arecoline	Oil Sands tailings water
Aroclor 1254	oil sands-derived naphthenic acids
Aroclor 1260	oil spills
Aroclor-1242	O-isopropyl methylphosphonofluoridate
Aroclor-1248	Oleic acid anilide
Aroclors	omethoate
aromatic amino compounds	o-Nitroanisole
aromatic halogenated disinfection byproducts	Orange II
aromatic hydrocarbon receptor agonists	ordnance
aromatic hydrocarbons	Organic acid anhydrides
aromatic nitro compounds	organic actu annyundes
arsenate	organic pollutants
	organic pollutants

arsenicorganic solventsarsenic trioxideOrganochlorine compoundsArseniteorganochlorine contaminantsarsenobetaineorganochlorine insecticidearyl-triazene derivativesOrganophosphare flame retardantatmospheric pollutionorganophosphorous pesticidesatrazineorganophosphorous compoundsatrazineorganophosphorous compoundsaurothiopropanol-sulfonateorganophosphorous compoundsaurothiopropanolsulfonate sodium saltorganophosphorous compoundsBDE-99Ortho-phenylphenol saltBe auimiumortho-phenylphenol saltBe auimiumortho-phenylphenol saltBe auimiumorganic perfluorochemicalsBentazon TPouabainbent2(a)phraneozonebent2(a)phranepaintsbent2(a)pyreneozonebent2(a)pyrenepaintsbenzenepaintsbenzenepaintsbenzenepaintsbenzenespainticle caidbenzenesparenatic enzymesbenzol[phreer.7.4/dihydrodiolparceratic enzymesbenzol[phreer.7.4/dihydrodiolparceratic enzymesbenzol[phreer.7.4/dihydrodiolparceraticbenzol/silcorantheneparticular matterbenzol/silcorantheneparticular matterbenzol/silcorantheneparticular matterbenzol/silcorantheneparticular matterbenzol/silcorantheneparticular matterbenzol/silcoranthenepearticular matterbenzol/silcoranthenepearticular		
Arsenite organochlorine contaminants arsenobetaine organochlorine insecticide aryl-triazene derivatives Organochlorine pesticides asbestos organophosphate flame retardant atmospheric pollution organophosphorous pesticides atrazine organophosphorus Compounds aurothiopropanol-sulfonate Organophosphorus Compounds Avermectin organophosphenes BDE-99 Ortho-phenylphenol salt Be aluminum ortho-phenylphenol Be aluminum		0
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aryl-triazene derivatives Organochlorine pesticides asbestos organophosphate flame retardant atmospheric pollution organophosphorous pesticides atrazine organophosphorous compounds aurothiopropanol-sulfonate sodium salt organophosphorous compounds aurothiopropanol-sulfonate sodium salt organophosphorous pesticides Avermectin organotin compounds BE-99 Ortho-phenylphenol salt Be aluminum ortho-phenylphenol salt bendiocarbamate Otrganic perfluorochemicals Benzano TP ouabain benzalanthracene Oxizalone benzalkonium chloride p.p'-dichlorodiphenyldichloroethylene Benzenthone paints benzale palladium benzola]pyrene ozone benzale palladium benzola]pyrene palmyrah benzo [a]pyrene palmyrah benzo [a]pyrene parabens benzol[a]pyrene paratens benzol[a]pyrene paratens benzol[a]pyrene paratens benzol[a]pyrene paratunoticolurantene benzol[a]pyre		0
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bis(2-chloroethyl) sulfide (HD)P-dichlorobenzenebis(tri-n-butyltin)oxidependimethalin	BioProtein nucleic acid reduced variant	
bis(tri-n-butyltin)oxide pendimethalin	biphenyls	p-chloronitrobenzene
bismuth selenide pentabromodiphenyl ether		
	bismuth selenide	pentabromodiphenyl ether

bisphenol A	pentaCB
Bisphenol F	pentachlorophenol
bisphenol S	perchloroethylene
bivalent ionic mercury	Perfluorinated alkylated substances
bleached kraft pulp mill effluent	Perfluorinated compounds
Boric acid	per-fluoroalkyl
boron nitride nanoflakes	perfluoroalkyl acids
branched polyethylenimine nanoparticles	perfluoroalkyl carboxylates
Brominated diphenyl ethers	perfluoroalkyl substances
Brominated Tetra-BDE	perfluoro-n-decanoic acid
bromodichloromethane	perfluorononanoic acid
burn	perfluorooctane sulfate
butachlor	perfluorooctane sulfonate
butyltins	Perfluorooctane sulfonic acid
C60 nanoparticles	perfluorooctanoate
cadmium	Perfluorooctanoic acid
cadmium acetate	perfluorooctanoic sulfonic acid
cadmium chloride	perinatal chemical exposures
Cadmium nanoparticles	Permanone
cadmium oxide	permethrin exposure
cadmium telluride quantum dots	persistent organic pollutants
Caramel Colour III	persistent organochlorine compounds
carbamate pesticides	pesticides
carbaryl	petrochemical waste sites
Carbendazim	petrochemical wastes
carbofuran	petrochemicals
carbon black nanoparticles	petroleum
carbon disulfide	PFAS
Carbon fullerenes	PFOA
carbon ion radiation	PFOS
carbon monoxide	PHAHs
Carbon nanoparticles	pharmaceuticals
carbon nanotubes	Phenanthrene
carbon tetrachloride	phenol
carbosulfan	phenols
carboxylic acid-coated QDs	phenoxyphenols
carpet shampoo	phenyl arsenic compounds
cathelicidin	phosgene
caustic soda	phosphamidon
CdS/CdTe quantum dots	phthalates
CdSe/ZnS quantum dots	physical fatigue
CdTe quantum dots	physiological factors
CeCl3	physiological stress
Cellphone electromagnetic radiation	picoxystrobin
Cement kiln dusts	piperonyl butoxide
chemical pollutants	pirimicarb

chemical stress	Pirimiphos-methyl (O-2-diethylamino-6-
	methylpyrimidin-4-yl O,O-dimethyl
	phosphorothioate)
chemical warfare agents	Platinum nanoparticles
chemical weapon	Plutonium
chemically dispersed oil	PM2.5
Chiral organophosphorus pesticides	p-Nitroaniline
Chit	p-nitrotoluene
chlordanes	pollutants
chlorfenvinphos	poly (lactic-co-glycolic acid) nanoparticles
chloridazone	poly(carboxybetaine) nanoparticles
Chlorinated aromatic hydrocarbons	Poly(D,L-Lactic Acid) Nanoparticle
chlorinated carbohydrates	poly(ethylene glycol) nanoparticles
chlorinated dibenzodioxins	polyamidoamine dendrimers
chlorinated dibenzofurans	polyaromatic hydrocarbons
chlorinated dibenzo-p-dioxins	polybrominated biphenyls
Chlorinated Flame Retardant	polybrominated diphenyl ethers
chlorinated hydrocarbons	Polybrominated flame retardants
Chlorinated pesticides	Polycarbonate
chlorine	polychlorinated biphenyl 153
chloroacetophenone	polychlorinated biphenyl congeners
chlorobenzenes	polychlorinated biphenyl mixtures
chloroform	Polychlorinated biphenyls
Chloronitrobenzenes	polychlorinated dibenzofurans
Chlorophenols	polychlorinated dibenzo-p-dioxins
Chloroplatinic acid	polychlorinated dioxins
chlorothalonil	polychlorinated diphenyl ethers
chlorpyrifos	polychlorinated naphthalenes
chromate (VI)	Polycyclic aromatic hydrocarbons
Chromium	polycyclic aromatics
Chrysene	polycyclic hydrocarbons
CI-994	polyethylene microplastics
cigarette smoke	polyfluorinated compounds
Cis-bifenthrin	polyfluoroalkyl
cis-nonachlor	polyhalogenated aromatic hydrocarbons
Citral	polyhalogenated biphenyls
citral dimethyl acetal	polyhalogenated hydrocarbons
Clark I	polyinosinic:polycytidylic acid
Clethodim	Polymeric nanoparticles
clothianidin	polynuclear aromatic hydrocarbon
CO2	Polyphosphoester-based nanoparticles
coal fly ash	polyriboinosinic-polyribocytidilic acid
coal tar	polystyrene
Cobalt	polyurethane
Cobalt chloride	polyvinyl chloride
cocaethylene	pond sediments
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Cold	potassium bromate
cold stress	potassium salt
cold water stress	Potassium sorbate
Constant illumination	potassium tetrachloroplatinate
Constant light	p-phenylenediamine
contact lenses	prallethrin 1.6%
coplanar polychlorinated biphenyls	prenatal arsenic exposure
Copolymer-I	prenatal trichloroethylene
copper	Pretilachlor
copper alginate fibers	produced water
copper carbonate nanoparticles	propanil
copper chloride	Propoxur
Copper nanoparticles	propoxur
Copper oxide nanoparticles	propyl gallate
copper sulfate	Prowl 400
Corexit 9500	pulp mill effluent
Corexit/oil mixture	pulse modulated Radiofrequency
cosmic radiation overexposure	punicalagin
cotton dust	Pyraclofos
crassin acetate	pyraclostrobin
crotonaldehyde	pyrene
crude oil	pyrethroid insecticides
crystalline silica	pyrethroid metabolites
cumene hydroperoxide	pyrethroids
Cyanuric acid	pyridostigmine bromide
cyclosporin A	pyrocatechol
cypermethrin	pyrrolizidine alkaloids
Dapsone	quartz
d-cyphenothrin	Quinocetone
DDT	Quinolinic Acid
DE-71	Quinones
decabrominated diphenyl ether	radio frequencies
Dechlorane 602	radioactive isotopes
decimeter waves	radioactivity
decimeter-band electromagnetic field	radiocontrast media
dehydroabietic acid	radiofrequency radiation
Deltamethrin	radioiodine-131
dental amalgam	radiotelevision broadcasting stations
DEP benzene extracts	radiotherapy
dermal bioimplants	residual oil fly ash
dextran sodium sulfate	Resin glass ionomers
dextran stabilized iron oxide nanoparticles	Respiratory Syncytial Virus
dextran sulfate	Retinal laser burn
di-(2-ethylhexyl) phthalate	Roundup
diazinon	Salinity change
dibenz(a,c)anthracene	salt dust

dibenz(a,h)anthracene	sand dust
Dibenzo[def,p]chrysene	Sarin
dibenzofuranes	scum of waste crankcase oil
dibenzofurans	Secondhand Smoke
dibenzo-p-dioxins	selenium
Dibenzopyrene	Sephadex
dibromoacetic acid	sertraline
Dibutyl phthalate	silesian dust
dibutyltin	silica
dichlofluanid	silica nanoparticles
dichloroacetic acid	silicates
dichlorodiphenyldichloroethylene	Silicon dioxide nanoparticles
dichlorodiphenyltrichloroethane	Silicone
dichloroethane	silver
dichloromethane	silver acetate
dichlorophene	silver nanoparticles
dichloropropanol	simazine
diclofop-methyl	single-walled carbon nanotubes
Dicyclohexylphthalate	SiO2 nanocomposites
dieldrin	sodium acetate
diesel exhaust	Sodium arsenite
Dietary Nickle Chloride	Sodium bromate
Diethanolamine	sodium carbonate
Diethyldithiophosphate	sodium chromate(VI)
dihydroxy-di-n-propylnitrosamine	Sodium dodecyl sulfate
diisononylphthalate	Sodium fluoride
diisopropyl ether	sodium methyldithiocarbamate
dim light at night	sodium Ortho-phenylphenol salt
dimethoate	sodium tungstate
Dimethyl carbonate	solar-simulated radiation
dimethyl dichlorovinyl phosphate	solvents
dimethyl nitrosamine	soman
Dimethyl sulfoxide	space radiation
dimethylbenz(a)anthracene	spinal cord injury
dimethylformamide	spinetoram
dimethylnitrosamine	stack gas condensates from waste incineration
	plants
dimethylsulphoxide	Stannous chloride
di-n-butyltin dichloride	Stomp
dinocap	strobilurins
di-n-octyltin dichloride	styrene
dinotefuran	styrene-butadiene rubber production
Dioxin-like polychlorinated biphenyls	sulfluramid
dioxins	Sulfoxaflor
diphenols	sulfur dioxide
diphenyl ethers	sulfur yperite
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diphenylmethane diisocyanate	sulfuric acid
disinfection byproducts	Sunset yellow FCF
Disperse Red 1	supercypermethrin forte
dithiocarbamates	suspended particulates
Diuron	sweet crude oil
Domestic wastewaters	tannery effluent
d-phenothrin	tannins
electromagnetic field	tartrazine
electromagnetic radiation	TCMS pyridine
electromagnetic waves	tebuconazole
electronic waste	Terahertz radiation
Endocrine disrupting compounds	tert-butylhydroquinone
endosulfan	Tertiary-butyl acetate
endosulfane	tetrabromobisphenol A
endrin	Tetrabromoethylcyclohexane
engine exhausts	tetrachlorodiarylmethanes
engineered nanomaterials	tetrachloroethylene
environmental chemicals	tetrachloromethane
environmental estrogens	tetraethyl lead
environmental pollutants	tetramethoxypropane
epichlorohydrin	tetraphenyl arsonium chloride
Erionite	tetryl
esfenvalerate	thermal injury
Ethanol	thiabendazole
ethephon	thiamethoxam
ethyl benzene	thimerosal
ethyl carbamate	thioacetamide
ethyl t-butyl ether	thymidine dinucleotides
ethylene dibromide	thymol
ethylene glycol	Ti ascorbate
ethylene oxide	Ti oxalate
e-waste disposing areas	tin
exhaust gases	TiO2 composite
extremely high frequency	Titanium
famoxadone-cymoxanil	titanium dioxide
Fenitrothion	titanium dioxide nanoparticles
fenthion	Titanium implants
Fenvalerate	titanocene
ferrocenes	tobacco smoke
fine particulate matter	toluene
fipronil	toluene 2,4-diisocyanate
firefighting overhaul environment	toluene diisocyanate
fluoranthene	total particulate matter
Fluorides	toxic waste sites
fluoro-edenite fibers	traffic-related particles
fluorotelomer	trans-nonachlor

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fluvalinate	trauma
fly ash	treated urban wastewaters
footshock	trehalose dimycolate
Forafac1157	triallate
Formaldehyde	triazine Irgarol 1051
FR167653	Tributyltin
fuel oil	Tributyltin chloride
Fullerene nanoparticles	tributyltin oxide
furans	Tributyltin-sulfhydryl
furfurol	trichloroacetic acid
furfuryl alcohol	trichloroethane
furniture dust	Trichloroethylene
furosemide	Triclosan
gallium	Triethanolamine
gallium arsenide	trifloxystrobin
gamma radiation	trimellitic anhydride
gamma-chlordane	Trimethyltin
gamma-hexachlorocyclohexane	tri-n-butyltin chloride
gasoline	tri-n-butyltin oxide
Gasoline exhaust particles	trinitrobenzene sulphonic acid
Geogenic dust	trinitrotoluene
geogenic particulate matter	tri-n-propyltin chloride
global warming	tri-ortho-cresyl phosphate
Glucan Nanoparticles	tri-ortho-tolyl phosphate
glufosinate-ammonium	Triphenylphosphate
Glutaraldehyde	triphenyltin
glycidamide	triphenyltin acetate
glycol ether 2-methoxyethanol	triphenyltin chloride
glyphosate	Triphenyltin derivatives
Gold	Tris(1,3-dichloroisopropyl) phosphate
Gold nanoparticles	tropolone
gold-salt	tungsten
graphene nanoplatelets	Tungsten substances
graphene oxides	Type A trichothecenes
guaiacol	type B trichothecenes
halocarbons	UHF electrical field
halogenated aromatic hydrocarbons	ultrafine particulate matter
halogenated benzo-1,4-quinone	Ultraviolet B
Hapten	ultraviolet light
hardwood smoke	ultraviolet radiation
HCC-230fa (1,1,1,3,3,3-hexachloropropane)	unsymmetrical dimethylhydrazine
head-down tilt bed rest	untreated urban wastewaters
heat	Urban air pollution
heat stress	urban waste water
heavy crude oil	urethane
heavy mechanical trauma	Ustad-10 EC

Heavy Metals	UVA
heavy oil	UVR
hepatotoxic chemicals	Vanadium
Hepatotoxicants	Vanadium pentoxide
heptachlor	vehicle emissions
Hexachlorobenzene	vinclozolin
hexachlorocyclohexanes	vinyl chloride
hexachloroethan	vinylidene chloride
hexahydrophthalic anhydride	volatile organic compounds
High altitude	volcano mud
high frequency electromagnetic radiation	VX
high temperature	washing soda
high water temperature	waterborne selenium
high-dose sunlight	welding aerosols
highly chlorinated biphenyls	welding fumes
Hospital wastewaters	whole-body vibration
hydrazine	whole-smoke conditioned medium
hydrocarbon oil	wide-band modulated electromagnetic field
Hydrogen peroxide	xenobiotics
hydrogen sulfide	xylene
Hydrophobic sodium fluoride-based nanocrystals	zinc
doped with lanthanide ions	
Hydrophobicity	zinc chloride
hydroquinone	Zinc oxide nanoparticles
Hydroxylated fullerenes	Zinc pyrithione
Hypergravity	ziram
hyperoxia	
PSYCHOSOCIAL/	SOCIOECONOMIC
accumulated life stress	male partner violence
acute psychological stressors	mild stress
adverse life events	negative stressful life
anxiety	Posttraumatic stress
anxious women	psycho-emotional stress
Childhood adversity	psychological stress
Chronic life stress	restraint stress
chronic mild stress	social behaviour deficits
chronic restraint stress	social disruption
Chronic social stress	Social isolation
chronic stress	Social stress
Combined Stress	stress
Depression	Stressful life events
Disaster	stress-related behavior
Distress	traumatic life events
intense intellectual stress	vulnerability
life stress	Work stress

"A4-B. Bibliography – Contributing Factors to Weakened Immune System – Titles Only

As stated in the previous section, approximately 4,700 records included factors that contributed to weakening the immune system, and these records formed the basis of the analysis. The titles of these records follow. To retrieve the abstract, or in some cases the full-text of these records, insert the title shown below into Pubmed.

18beta-Glycyrrhetinic acid from licorice root impairs dendritic cells maturation and Th1 immune responses

1921gG-saporin-induced immunotoxic lesions of cholinergic basal forebrain system differentially affect glutamatergic and GABAergic markers in cortical rat brain regions

2,2',4,6,6'-Pentachlorobiphenyl-induced apoptosis is limited by cyclooxygenase-2 induction

2,3,7,8-TCDD neurotoxicity in neuroblastoma cells is caused by increased oxidative stress, intracellular calcium levels, and tau phosphorylation

2,3,7,8-Tetrachloodibenzo-p-dioxin affects the differentiation of CD4 helper T cell

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) and long term immunologic memory

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) induced suppression of the local immune response

2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)-induced immunotoxicity

2,3,7,8-Tetrachlorodibenzo-p-dioxin impairs stable establishment of oral tolerance in mice

2,3,7,8-Tetrachlorodibenzo-p-dioxin-mediated impairment of B cell differentiation involves dysregulation of paired box 5 (Pax5) isoform, Pax5a

21 Days head-down bed rest induces weakening of cell-mediated immunity - Some spaceflight findings confirmed in a ground-based analog

2'3'-Dideoxyinosine inhibits the humoral immune response in female B6C3F1 mice by targeting the B lymphocyte

25 years of UV-induced immunosuppression mediated by T cells-from disregarded T suppressor cells to highly respected regulatory T cells

2-Methoxyestradiol protects against IgG immune complex-induced acute lung injury by blocking NF-kappaB and CCAAT/enhancer-binding protein beta activities

3,3'-Diindolylmethane induces immunotoxicity via splenocyte apoptosis in neonatal mice

3,4-Dichloropropionanilide-induced atrophy of the thymus: mechanisms of toxicity and recovery

3-Methylcholanthrene induces lymphocyte and phagocyte apoptosis in common carp (Cyprinus carpio L) in vitro

3-Methylindole-induced splenotoxicity: functional analysis of immune parameters and lymphocyte phenotyping by flow cytometry

51Cr release assay of clozapine-induced cytotoxicity: evidence for immunogenic mechanism

5-azacytidine promotes an inhibitory T-cell phenotype and impairs immune mediated antileukemic activity

6:2 fluorotelomer sulfonamide alkylbetaine (6:2 FTAB), a novel perfluorooctane sulfonate alternative, induced developmental toxicity in zebrafish embryos

6-Methylprednisolone does not impair anti-thymocyte globulin (ATG) immunosuppressive activity in non-human primates

7,12-Dimethylbenz[a]anthracene-induced bone marrow toxicity is p53-dependent

8:2 Fluorotelomer alcohol causes immunotoxicity and liver injury in adult male C57BL/6 mice

954 MHz microwaves enhance the mutagenic properties of mitomycin C.

A 33-year-old patient with human immunodeficiency virus on antiretroviral therapy with efavirenzinduced complex partial seizures: a case report

A case of daptomycin-induced immune thrombocytopenia

A case of drug-induced hypersensitivity syndrome induced by icotinib managed by intravenous immunoglobulin and systemic corticosteroids

A Case of Heparin-Induced Thrombocytopenia with Discrepancy in the Results of Anti-Platelet Factor 4/Heparin Antibodies between Latex-Particle-Enhanced Immunoturbidimetric Assay and Enzyme Immunoassay

A case of inflammatory pseudotumor of the lung with suppressed immune response in the patient with renal cell carcinoma after nephrectomy and administration of interferon

A case of isoniazid-induced thrombocytopenia: recovery with immunoglobulin therapy

A case of linear immunoglobulin A bullous dermatosis in a patient exposed to sun and an analgesic

A case of pembrolizumab-induced type-1 diabetes mellitus and discussion of immune checkpoint inhibitor-induced type 1 diabetes

A case of profound and prolonged tirofiban-induced thrombocytopenia and its correction by intravenous immunoglobulin G

A case of thrombocytopenia induced by digitoxin--antibody immune complex

A clinical and immunologic study of workers with trimellitic-anhydride-induced immunologic lung disease after transfer to low exposure jobs

A commercial sunscreen's protection against ultraviolet radiation-induced immunosuppression is more than 50% lower than protection against sunburn in humans

A comparative evaluation of immunotoxicity of DDT and its metabolites in rats

A comparative evaluation of immunotoxicity of malathion after subchronic exposure in experimental animals

A comparative evaluation of the immunotoxicity and immunomodulatory effects on macrophages exposed to aromatic trihalogenated DBPs

A Comparative Study on the Effects of Different Parts of Panax ginseng on the Immune Activity of Cyclophosphamide-Induced Immunosuppressed Mice

A comparison of immunotoxic effects of nanomedicinal products with regulatory immunotoxicity testing requirements

A Comparison of Two Types of Rabbit Antithymocyte Globulin Induction Therapy in Immunological High-Risk Kidney Recipients: A Prospective Randomized Control Study

A comprehensive review of pesticides and the immune dysregulation: mechanisms, evidence and consequences

A cooperative effect of surgical stress-induced immunomodulation with the cessation of immunosuppression on hepatitis C virus elimination

A critical reappraisal of the current data on drug-induced linear immunoglobulin A bullous dermatosis: a real and separate nosological entity

A critical review of perfluorooctanoate and perfluorooctanesulfonate exposure and immunological health conditions in humans

A cross-sectional study of changes in markers of immunological effects and lung health due to exposure to multi-walled carbon nanotubes

A cytokine cascade including prostaglandin E2, IL-4, and IL-10 is responsible for UV-induced systemic immune suppression

A detailed study of developmental immunotoxicity of imidacloprid in Wistar rats

A dose-response study of the effects of prenatal and lactational exposure to TCDD on the immune response to influenza a virus

A double-edged sword: does highly active antiretroviral therapy contribute to syphilis incidence by impairing immunity to Treponema pallidum

A flow immunoassay for studies of human exposure and toxicity in biological samples

A health food high-peptide meal alleviates immunosuppression induced by hydrocortisone and cyclophosphamide in mice

A high SPF sunscreen's effects on UVB-induced immunosuppression of DNCB contact hypersensitivity

A higher anxiety state in old rats after social isolation is associated to an impairment of the immune response

A high-throughput screening method based on stably transformed human cells was used to determine the immunotoxic effects of fluoranthene and other PAHs

A meta-analysis and morphological review of cyclosporine-induced nephrotoxicity in auto-immune diseases

A method of assessing impairment of immunity after trauma

A model of immune-mediated lung disease in rats sensitized to house dust mite and upregulation of immunity following exposure to nitrogen dioxide

A model of immunologic lung injury induced by trimellitic anhydride inhalation: antibody response

A monoclonal antibody to hippuric acid: an improved enzyme-linked immunosorbent assay for biological monitoring of toluene exposure

A multivariate assessment of innate immune-related gene expressions due to exposure to low concentration individual and mixtures of four kinds of heavy metals on zebrafish (Danio rerio) embryos

A murine model of the effects of inhaled CuO nanoparticles on cells of innate and adaptive immunity - a kinetic study of a continuous three-month exposure

A neurotoxic regimen of methamphetamine exacerbates the febrile and neuroinflammatory response to a subsequent peripheral immune stimulus

A new assay system for evaluation of developmental immunotoxicity of chemical compounds using respiratory syncytial virus infection to offspring mice

A new model for an etiology of rheumatoid arthritis: smoking may trigger HLA-DR (shared epitope)restricted immune reactions to autoantigens modified by citrullination

A new pathologic pathway for pulmonary fibrosis induced by silica: involvement of immunosuppressive responses

A new side effect of immunosuppression: high incidence of hearing impairment after liver transplantation

A nontoxic Pseudomonas exotoxin A induces active immunity and passive protective antibody against Pseudomonas exotoxin A intoxication

A novel immunochromatographic electrochemical biosensor for highly sensitive and selective detection of trichloropyridinol, a biomarker of exposure to chlorpyrifos

A novel immunosuppressive drug, FTY720, prevents the cancer progression induced by cyclosporine

A novel mouse model of chronic prostatitis/chronic pelvic pain syndrome induced by immunization of special peptide fragment with aluminum hydroxide adjuvant

A novel T(H)17-type cell is rapidly increased in the liver in response to acetaminophen-induced liver injury: T(H)17 cells and the innate immune response

A phase-I study of repeated therapy with radiolabelled antibody to carcinoembryonic antigen using intermittent or continuous administration of cyclosporin A to suppress the immune response

A Potential Mechanism for Immune Suppression by Beta-Adrenergic Receptor Stimulation following Traumatic Injury

A predictive F344 rat immunotoxicology model: cellular parameters combined with humoral response to NP-CgammaG and KLH

A preliminary evaluation of immune stimulation following exposure to metal particles and ions using the mouse popliteal lymph node assay

A prospective, double-blind, randomized study of high-versus low-dose OKT3 induction immunosuppression in cadaveric renal transplantation

A protective effect of vitamin E and selenium in ameliorating the immunotoxicity of malathion in chicks

A proteomic approach for the identification of immunotoxic properties of Tulipalin A

A randomized controlled trial of late conversion from calcineurin inhibitor (CNI)-based to sirolimusbased immunosuppression in liver transplant recipients with impaired renal function

A randomized, double-blinded comparison of Thymoglobulin versus Atgam for induction immunosuppressive therapy in adult renal transplant recipients

A rare case report of acyclovir-induced immune thrombocytopenia with tongue hematomas as the first sign, and a literature review

A review of the immunotoxicity of the pesticide 3,4-dichloropropionanalide

A role for associated transition metals in the immunotoxicity of inhaled ambient particulate matter

A role for HO-1 in renal function impairment in animals subjected to ischemic and reperfusion injury and treated with immunosuppressive drugs

A role for neuropeptides in UVB-induced systemic immunosuppression

A role for oxidative stress in suppressing serum immunoglobulin levels in lead-exposed Fisher 344 rats

A role for reactive oxygen species in endotoxin-induced elevation of MOR expression in the nervous and immune systems

A semiquinone glucoside derivative isolated from Bacillus sp. INM-1 provides protection against 5fluorouracil-induced immunotoxicity

A single dose of trichloroethylene given during development does not substantially alter markers of neuroinflammation in brains of adult mice

A site involving the "hybrid" and PSI homology domains of GPIIIa (beta 3-integrin subunit) is a common target for antibodies associated with quinine-induced immune thrombocytopenia

A soy-derived immunostimulating peptide inhibits etoposide-induced alopecia in neonatal rats

A statement on the developmental immunotoxicity of bisphenol A (BPA): answer to the question from the Dutch Ministry of Health, Welfare and Sport

A study of autoantibodies and circulating immune complexes in mercury-exposed chloralkali workers

A study on behavioral, neurotoxicological, and immunotoxicological effects of subchronic arsenic treatment in rats

A study on geno- and immunotoxicological effects of subacute propoxur and pirimicarb exposure in rats

A study on immunotoxicological effects of subacute amitraz exposure in rats

A study on the effects of exposure to benzene on the activity of immunoglobulin E

A toxicokinetic study of nickel-induced immunosuppression in rats

A UVB wavelength dependency for local suppression of recall immunity in humans demonstrates a peak at 300 nm

Ability of Lactobacillus plantarum MON03 to mitigate aflatoxins (B1 and M1) immunotoxicities in mice

Ability of Lactobacillus rhamnosus GAF01 to remove AFM1 in vitro and to counteract AFM1 immunotoxicity in vivo

Abnormal immunostaining for dystrophin in isoproterenol-induced acute myocardial injury in rats: evidence for change in dystrophin in the absence of genetic defect

Abnormalities of cellular immune response in arthritis induced by rubella vaccination

Absorption of PCB126 by upper airways impairs G protein-coupled receptor-mediated immune response

Accelerated induction of skin cancers by ultraviolet radiation in hairless mice treated with immunosuppressive agents

Accumulation and immunotoxicity of microplastics in the estuarine worm Hediste diversicolor in environmentally relevant conditions of exposure

Accumulation of polychlorinated biphenyls (PCBs) and evaluation of hematological and immunological effects of PCB exposure on turtles

Accumulation, histopathology and immunotoxicological effects of waterborne cadmium on gilthead seabream (Sparus aurata

Acephate immunotoxicity in White Leghorn cockerel chicks upon experimental exposure

Acetaldehyde accelerates HCV-induced impairment of innate immunity by suppressing methylation reactions in liver cells

Acetaldehyde-serum protein adducts inhibit interleukin-2 secretion in concanavalin A-stimulated murine splenocytes: a potential common pathway for ethanol-induced immunomodulation

Acetaminophen toxicity revisited: is drug-induced hepatotoxity immune mediated

Acetaminophen-induced immunosuppression associated with hepatotoxicity in mice

Acetylcholinesterase inhibition as a biomarker of adverse effect. A study of Mytilus edulis exposed to the priority pollutant chlorfenvinphos

Acetylcholinesterase monoclonal antibody-induced sympathectomy: effects on immune status and acute morphine-induced immunomodulation

Acrylamide induced immunosuppression in rats and its modulation by 6-MFA, an interferon inducer

Acrylamide induces immunotoxicity through reactive oxygen species production and caspase-dependent apoptosis in mice splenocytes via the mitochondria-dependent signaling pathways

Actions of alcohol on immunity and neoplasia in fetal alcohol exposed and adult rats

Activating transcription factor 4 underlies the pathogenesis of arsenic trioxide-mediated impairment of macrophage innate immune functions

Activation-induced T-cell death and immune dysfunction after implantation of left-ventricular assist device

Active immunization with amyloid-beta 1-42 impairs memory performance through TLR2/4-dependent activation of the innate immune system

Acute 3,4-methylenedioxymethamphetamine(MDMA) administration produces a rapid and sustained suppression of immune function in the rat

Acute and subchronic immunotoxicity of p-chloronitrobenzene in mice. I. Effect on natural killer, cytotoxic T-lymphocyte activities and mitogen-stimulated lymphocyte proliferation

Acute and subchronic toxic effects of atrazine and chlorpyrifos on common carp (Cyprinus carpio L.): Immunotoxicity assessments

Acute effects of 2-bromopropane and 1,2-dibromopropane on hepatotoxic and immunotoxic parameters in female BALB/c mice

Acute exposure to crotonaldehyde induces dysfunction of immune system in male Wistar rats

Acute exposure to perfluorononanoic acid in prepubertal mice: Effect on germ cell dynamics and an insight into the possible mechanisms of its inhibitory action on testicular functions

Acute exposure to waterborne cadmium induced oxidative stress and immunotoxicity in the brain, ovary and liver of zebrafish (Danio rerio

Acute exposure to ZnO nanoparticles induces autophagic immune cell death

Acute immunoallergic hemolytic anemia induced by sulindac

Acute Immunotoxic Effects of Perfluorononanoic Acid (PFNA) in C57BL/6 Mice

Acute immunotoxicity of gallium to carp (Cyprinus carpio L

Acute immunotoxicity of p-chloronitrobenzene in mice: II. Effect of p-chloronitrobenzene on the immunophenotype of murine splenocytes determined by flow cytometry

Acute infection of mice with highly virulent group B streptococci as a host resistance model for immunotoxicity assessment

Acute inflammation and immunoresponses induced by ortho-phthalaldehyde in mice

Acute kidney injury as the presenting complaint of ceftazidime-induced immune-mediated haemolysis

Acute microplastic exposure raises stress response and suppresses detoxification and immune capacities in the scleractinian coral Pocillopora damicornis

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Acute rejection risk in kidney transplant recipients on steroid-avoidance immunosuppression receiving induction with either antithymocyte globulin or basiliximab

Acute renal failure induced by intravenous immune globulin

Acute symptomatic hypocalcemia from immune checkpoint therapy-induced hypoparathyroidism

Acute systemic DNA damage in youth does not impair immune defense with aging

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Advances in non-carcinogenic toxicity of trichloroethylene

Advances on the immunotoxicity of airborne fine particulate matter (PM2.5

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Adverse experience in childhood as a developmental risk factor for altered immune status in adulthood

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Assessment of immunotoxicity of irinotecan determined by the novel method, by which productivity of TNF-alpha from whole blood is stimulated by lipopolysaccharide

Assessment of immunotoxicity parameters in individuals occupationally exposed to lead

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Assessment of myelotoxicity caused by environmental chemicals

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Author Correction: Immunotoxicological impact and biodistribution assessment of bismuth selenide (Bi2Se3) nanoparticles following intratracheal instillation in mice

Autoantibodies and drug- or metabolite-dependent antibodies in patients with diclofenac-induced immune haemolysis

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Copper hypersensitivity: dermatologic aspects--an overview

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Copper-induced immunotoxicity involves cell cycle arrest and cell death in the spleen and thymus

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Drugs of abuse and dysfunction of neuroendocrine and immune systems: the importance of animal research

Dualistic immunomodulation of sub-chronic microcystin-LR exposure on the innate-immune defense system in male zebrafish

Dysbiosis-induced IL-33 contributes to impaired antiviral immunity in the genital mucosa

Dysregulation of immune responses in an allergic mouse model following low-level toluene exposure

Dysregulation of the immune system caused by silica and asbestos

Early acute necrosis and delayed apoptosis induced by methyl mercury in murine peritoneal neutrophils

Early and late effects of the immunosuppressants rapamycin and mycophenolate mofetil on UV carcinogenesis

Early and Long-Term Impaired T Lymphocyte Immune Reconstitution after Cord Blood Transplantation with Antithymocyte Globulin

Early changes of lymphocyte RNA and serum immunoglobulins following chronic exposure to benzene

Early experience with FK 506 induction immunosuppression--suggestion for using oral FK 506

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Early Immunosuppressive Exposure of Enteric-Coated-Mycophenolate Sodium Plus Tacrolimus Associated with Acute Rejection in Expanded Criteria Donor Kidney Transplantation

Early initiating and promoting effects in 2-AAF-induced rat liver carcinogenesis: an immunohistochemical study

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Early lifestage exposure and potential developmental susceptibility to tetrachloroethylene

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Early onset of virus infection and up-regulation of cytokines in mice treated with cadmium and manganese

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Early Postnatal Secondhand Smoke Exposure Disrupts Bacterial Clearance and Abolishes Immune Responses in Muco-Obstructive Lung Disease

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Early weaning stress in pigs impairs innate mucosal immune responses to enterotoxigenic E. coli challenge and exacerbates intestinal injury and clinical disease

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Humoral immunotoxicity of polychlorinated diphenyl ethers, phenoxyphenols, dioxins and furans present as contaminants of technical grade pentachlorophenol

Hydantoin-induced cutaneous pseudolymphoma with clinical, pathologic, and immunologic aspects of Sezary syndrome

Hydrolyzed fumonisin B1 induces less inflammatory responses than fumonisin B1 in the co-culture model of porcine intestinal epithelial and immune cells

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Hygienic evaluation of immune and endocrine systems and modifications of their relationship in reproductive-age women working under exposure to chemical factors in activated carbon emissions

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Immunosuppression With FTY720 Reverses Cardiac Dysfunction in Hypomorphic ApoE Mice Deficient in SR-BI Expression That Survive Myocardial Infarction Caused by Coronary Atherosclerosis

Immunosuppression without liver induction by subchronic exposure to 2,7-dichlorodibenzo-p-dioxin in adult female B6C3F1 mice

Immunosuppression-induced alterations in fish gut microbiota may increase the susceptibility to pathogens

Immunosuppression-induced leukoencephalopathy from tacrolimus (FK506

Immunosuppressive activities of polychlorinated dibenzofuran congeners: quantitative structure-activity relationships and interactive effects

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Immunosuppressive drug-induced leukoencephalopathy in patients with liver transplant

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Immunotoxic effects of diethylstilbestrol on host resistance: comparison with cyclophosphamide

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Impaired intestinal mucosal immunity in specific-pathogen-free chickens after infection with very virulent infectious bursal disease virus

Impaired long-term immune protection following pneumococcal 13-valent/23-valent polysaccharide vaccine in systemic lupus erythematosus (SLE

Impaired Microcirculation in Children After Kidney Transplantation: Everolimus Versus Mycophenolate Based Immunosuppression Regimen

Impaired mononuclear cell immune function in extreme obesity is corrected by weight loss

Impaired non-viral specific immune function of dendritic cell does not interfere with clearance and cytotoxic T lymphocyte response to HBV or HCV

Impaired outcome of continuous ambulatory peritoneal dialysis in immunosuppressed patients

Impaired phosphate handling of renal allografts is aggravated under rapamycin-based immunosuppression

Impaired pulmonary immunity post-bone marrow transplant

Impaired responses to gliadin and gut microbes of immune cells from mice with altered stress-related behavior and premature immune senescence

Impaired serotype-specific immune function following pneumococcal vaccination in infants with prior carriage

Impairment of cell-mediated immune responses by Pseudomonas aeruginosa

Impairment of Immunonutritional Status During Treatment is a Factor Associated With Oncologic Outcomes in Patients With Rectal Cancer Treated With Preoperative Chemoradiotherapy

Impairment of Immunoproteasome Function by Cigarette Smoke and in Chronic Obstructive Pulmonary Disease

Impairment of innate immune function by hydroxyethyl starch

Impairment of innate immune killing mechanisms by bacteriostatic antibiotics

Impairment of innate immune responses of airway epithelium by infection with bovine viral diarrhea virus

Impairment of non-specific immunity in patients under persistent vegetative state resulting from trauma

Impairment of renal function after islet transplant alone or islet-after-kidney transplantation using a sirolimus/tacrolimus-based immunosuppressive regimen

Impairment of several immune functions in anxious women

Impairment of T cell immunity by the respiratory syncytial virus: targeting virulence mechanisms for therapy and prophylaxis

Impairment of the immune response after transcuticular introduction of the insect gonadoinhibitory and hemocytotoxic peptide Neb-colloostatin: A nanotech approach for pest control

Impairment of the immune system in GH-overexpressing transgenic zebrafish (Danio rerio

Implementation of toxicokinetics in toxicity studies--Toxicokinetics of 4-methylanisole and its metabolites in juvenile and adult rats

Implications of the new FDA/CDER immunotoxicology guidance for drugs

Implications of UV-induced inflammation and immunomodulation

Importance of innate immunity and collagen binding integrin alpha1beta1 in TNBS-induced colitis

In altering the release of glucocorticoids, ketorolac exacerbates the effects of systemic immune stimuli on expression of proinflammatory genes in the brain

In contrast to morphine, buprenorphine enhances macrophage-induced humoral immunity and, as oxycodone, slightly suppresses the effector phase of cell-mediated immune response in mice

In situ (mesocosm) assessment of immunotoxicity risks to small mammals inhabiting petrochemical waste sites

In utero arsenic exposure is associated with impaired thymic function in newborns possibly via oxidative stress and apoptosis

In utero exposure to arsenic alters lung development and genes related to immune and mucociliary function in mice

In Utero exposure to genistein enhanced intranasal house dust mite allergen-induced respiratory sensitization in young adult B6C3F1 mice

In utero exposure to immunosuppressive drugs

In utero exposure to immunosuppressive drugs: experimental and clinical studies

In utero ultrafine particulate matter exposure causes offspring pulmonary immunosuppression

In vitro analysis of verapamil-induced immunosuppression: potent inhibition of T cell motility and lymphocytic transmigration through allogeneic endothelial cells

In vitro and in vivo comparison of the immunotoxicity of single- and multi-layered graphene oxides with or without pluronic F-127

In vitro and in vivo immunotoxic and immunomodulatory effects of nonsupplemented and seleniumsupplemented cigarette smoke condensate

In vitro assays supporting the safety assessment of immunomodulatory monoclonal antibodies

In vitro characterization of cutaneous immunotoxicity of immortalized human keratinocytes (HaCaT) exposed to reactive and disperse textile dyes

In vitro characterization of the immunotoxic potential of several perfluorinated compounds (PFCs

In vitro cytokine release from human peripheral blood mononuclear cells in the assessment of the immunotoxic potential of chemicals

In vitro cytopathic effects of mycotoxin T-2 on human peripheral blood T lymphocytes

In vitro effect of 4-pentylphenol and 3-methyl-4-nitrophenol on murine splenic lymphocyte populations and cytokine/granzyme production

In vitro enhancement of mouse T helper 2 cell sensitization to ovalbumin allergen by carbon black nanoparticles

In vitro evaluation of the effects of perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) on IL-2 production in human T-cells

In vitro evaluation of the immunotoxic potential of perfluorinated compounds (PFCs

In Vitro Exposure of Harbor Seal Immune Cells to Aroclor 1260 Alters Phocine Distemper Virus Replication

In vitro hematological and in vivo immunotoxicity assessment of dextran stabilized iron oxide nanoparticles

In vitro immune toxicity of polybrominated diphenyl ethers on murine peritoneal macrophages: apoptosis and immune cell dysfunction

In vitro immunotoxicity and cytotoxicity of trichosanthin against human normal immunocytes and leukemia-lymphoma cells

In vitro immunotoxicity of bis(tri-n-butyltin)oxide (TBTO) studied by toxicogenomics

In vitro immunotoxicity of untreated and treated urban wastewaters using various treatment processes to rainbow trout leucocytes

In vitro immunotoxicological effects of heavy metals on European sea bass (Dicentrarchus labrax L.) head-kidney leucocytes

In vitro immunotoxicology of quantum dots and comparison with dissolved cadmium and tellurium

In vitro lymphotoxicity and selective T cell immunotoxicity of high doses of acyclovir and its derivatives in mice

In vitro Modulating Activity of aqueous extracts from American Plants on Chlorpyrifos-induced toxicity on Murine Splenocytes

In vitro nanoparticle toxicity to rat alveolar cells and coelomocytes from the earthworm Lumbricus rubellus

In vitro nephrotoxicity induced by chloronitrobenzenes in renal cortical slices from Fischer 344 rats

In vitro nephrotoxicity induced by propanil

In vitro potency of inhibition by antiviral drugs of hematopoietic progenitor colony formation correlates with exposure at hemotoxic levels in human immunodeficiency virus-positive humans

In vitro stimulatory effect of N-acetyl tryptophan-glucopyranoside against gamma radiation induced immunosuppression

In vitro studies on immunotoxic potential of Orange II in splenocytes

In vitro study on the immune effects of the exposure to palladium nanoparticles

In vitro tests to evaluate immunotoxicity: a preliminary study

In vitro toxicity and interactions of environmental contaminants (Arochlor 1254 and mercury) and immunomodulatory agents (lipopolysaccharide and cortisol) on thymocytes from lake trout (Salvelinus namaycush

In vitro VLA-4 blockade results in an impaired NK cell-mediated immune surveillance against melanoma

In vitro" comparative immune effects of different titanium compounds

In vitro" effects of different arsenic compounds on PBMC (preliminary study

In vivo activation of a T helper 2-driven innate immune response in lung fibrosis induced by multi-walled carbon nanotubes

In vivo and in vitro immunosuppressive effects of benzo[k]fluoranthene in female Balb/c mice

In vivo effects of immunostimulating lipopeptides on mouse liver microsomal cytochromes P-450 and on paracetamol-induced toxicity

In vivo immunotoxicity of SiO2@(Y0.5Gd0.45Eu0.05)2O3 as dual-modality nanoprobes

In vivo induction of apoptosis and immune responses in mice by administration of lipopolysaccharide from Porphyromonas gingivalis

In vivo short-term exposure to residual oil fly ash impairs pulmonary innate immune response against environmental mycobacterium infection

In vivo studies on the immunotoxic effects of microcystins on rabbit

In Vivo toxicological assessment of biologically synthesized silver nanoparticles in adult Zebrafish (Danio rerio

Inactivation of cadmium induced immunotoxicological alterations in rats by Tunisian montmorillonite clay

Incidence and etiology of hepatic dysfunction in heart transplant recipients receiving a cyclosporinebased triple immunosuppressive therapy

Incidence and natural history of intravenous immunoglobulin-induced aseptic meningitis: a retrospective review at a single tertiary care center

Incidence of cytomegalovirus in cardiac transplant recipients receiving induction immunosuppression with antithymocyte globulin

Incident stressful and traumatic life events and human immunodeficiency virus sexual transmission risk behaviors in a longitudinal, multisite cohort study

Inconsistently impairment of immune function and structural integrity of head kidney and spleen by vitamin A deficiency in grass carp (Ctenopharyngodon idella

Increase in level of tumor necrosis factor-alpha in 6-hydroxydopamine-lesioned striatum in rats is suppressed by immunosuppressant FK506

Increased affective ultrasonic communication during fear learning in adult male rats exposed to maternal immune activation

Increased expression of immune modulator proteins and decreased expression of apolipoprotein A-1 and haptoglobin in blood plasma of sarin exposed rats

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Induced sensitization to nickel in guinea pigs immunized with mycobacteria by injection of purified protein derivative with nickel

Inducible headkidney cytochrome P450 contributes to endosulfan immunotoxicity in walking catfish Clarias gariepinus

Induction and activation of adaptive immune populations during acute and chronic phases of a murine model of experimental colitis

Induction and Amelioration of Methotrexate-Induced Gastrointestinal Toxicity are Related to Immune Response and Gut Microbiota

Induction and modulation of pulmonary inflammation by organic dusts: cytokines, immune complexes and 'all of those things

Induction Immunosuppression in High-risk Kidney Transplant Recipients

Induction immunosuppression in kidney transplant recipients older than 60 years of age : safety and efficacy of ATGAM, OKT3 and Simulect

Induction immunosuppression with interleukin-2 receptor antibodies (basiliximab and daclizumab) in renal transplant recipients

Induction immunosuppression with OKT3 monoclonal antibody in cardiac transplant recipients

Induction immunosuppressive therapy in kidney transplantation

Induction immunosuppressive therapy in renal transplantation: does basiliximab make the difference

Induction immunosuppressive therapy in the elderly kidney transplant recipient in the United States

Induction immunosuppressive therapy stratified according to risk categories in renal transplantation

Induction of a type 1 immune response to a recombinant antigen from Mycobacterium tuberculosis expressed in Mycobacterium vaccae

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Induction of antiviral cytotoxic T cells by plasmacytoid dendritic cells for adoptive immunotherapy of posttransplant diseases

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Induction of autoimmunity through bystander effects. Lessons from immunological disorders induced by heavy metals

Induction of cancer, actinic keratosis, and specific p53 mutations by UVB light in human skin maintained in severe combined immunodeficient mice

Induction of colitis in mice with food allergen-specific immune response

Induction of eruptive benign melanocytic naevi by immune suppressive agents, including biologicals

Induction of experimental systemic lupus erythematosus in mice by immunization with a monoclonal anti-La autoantibody

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Induction of Immune Reaction in Benign Melanocytic Nevi Without Halo During Nivolumab Therapy in a Patient With Melanoma

Induction of immunomediated diseases by recombinant human granulocyte-macrophage colonystimulating factor during cancer treatment

Induction of immunosuppression with rabbit antithymocyte globulin: five-year experience in cardiac transplantation

Induction of immunotoxicity by polycyclic hydrocarbons: role of the Ah locus

Induction of immunotoxicity in mice by polyhalogenated biphenyls

Induction of innate immune gene expression following methyl methanesulfonate-induced DNA damage in sea urchins

Induction of Maternal Immune Activation in Mice at Mid-gestation Stage with Viral Mimic Poly(I:C

Induction of multiple melanocytic nevus cell nevi in 2 children with malignant hematologic systemic diseases and chemotherapy-induced immunosuppression

Induction of neutralizing antibodies against Tityus serrulatus toxins by immunization with a recombinant nontoxic protein

Induction of neutralizing antibodies in mice immunized with scorpion toxins detoxified by liposomal entrapment

Induction of oxidative stress by Taxol vehicle Cremophor-EL triggers production of interleukin-8 by peripheral blood mononuclear cells through the mechanism not requiring de novo synthesis of mRNA

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Induction versus noninduction in renal transplant recipients with tacrolimus-based immunosuppression

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Influence of immunization on the pulmonary inflammatory response of rabbits induced by Pasteurella haemolytica A1 lipopolysaccharide

Influence of immunization with non-genotoxic PAH-KLH conjugates on the resistance of organisms exposed to benzo(a)pyrene

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Influence of life stress on immunological reactivity to mild psychological stress

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Influence of melatonin on immunotoxicity of lead

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Initial experience of combined immunosuppressive induction therapy with polyclonal antithymocyte antibody, FK 506 (tacrolimus), and prednisolone in clinical liver transplantation

Initial immunosuppression in liver transplant recipients with impaired renal function

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Intravenous Immune Globulin for Statin-Triggered Autoimmune Myopathy

Intravenous immunoglobulin as an adjunct therapy in persisting heparin-induced thrombocytopenia

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Intravenous immunoglobulin induced meningoencephalitis

Intravenous immunoglobulin induced-nephropathy: a complication of IVIG therapy

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Intravenous immunoglobulin-induced acute thrombocytopenia

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Intravenous immunoglobulin-induced hemolytic anemia after thoracoscopic thymectomy for myasthenia gravis

Intravenous immunoglobulin-induced hemolytic anemia in a patient with juvenile dermatomyositis

Intravenous immunoglobulin-induced lichenoid dermatitis: a unique adverse reaction

Intravenous immunoglobulin-induced neutropenia

Intravenous immunoglobulin-induced neutrophil apoptosis in the lung during murine endotoxemia

Intravenous immunoglobulin-induced osmotic nephrosis

Intravenous Immunoglobulin-Induced Profound Bradycardia in a Patient With Idiopathic Thrombocytopenic Purpura

Intravenous Immunoglobulin-Induced Pulmonary Embolism: It Is Time to Act

Intravenous immunoglobulin-induced reversible neutropenia in a renal transplant patient

Intravenous immunoglobulin-induced, non-eczematous, vesiculobullous eruptions in Stevens-Johnson syndrome

Intravenous immunoglobulins-induced eczematous eruption: a long-term follow-up study

Investigating the Effects of Particulate Matter on House Dust Mite and Ovalbumin Allergic Airway Inflammation in Mice

Investigation of a screening battery for immunotoxicity of pharmaceuticals within a 28-day oral toxicity study using azathioprine and cyclosporin A as model compounds

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Investigation of sensitive biomarkers to determine cadmium inducing hepato- and nephro-toxicity in cattle by immunofluorescence method

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Is Chronic Exposure to Low-Dose Organochlorine Pesticides a New Risk Factor of T-cell Immunosenescence

Is hydroxylamine-induced cytotoxicity a valid marker for hypersensitivity reactions to sulfamethoxazole in human immunodeficiency virus-infected individuals

Is impaired immunity a consequence of surgery in patients infected by the human immunodeficiency virus

Is murine gammaherpesvirus-68 (MHV-68) a suitable immunotoxicological model for examining immunomodulatory drug-associated viral recrudescence

Is opioid-induced immunosuppression a clinically relevant problem? Innocent until proven guilty

Is there a human health risk associated with indirect exposure to perfluoroalkyl carboxylates (PFCAs

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Is there evidence that environmental noise is immunotoxic

Is type 1 diabetes a disease of the gut immune system triggered by cow's milk insulin

Isocyanate exposure and hypersensitivity pneumonitis--report of a probable case and prevalence of specific immunoglobulin G antibodies among exposed individuals

Isoflavonoid compounds from red clover (Trifolium pratense) protect from inflammation and immune suppression induced by UV radiation

Isoflurane anesthesia impairs the expression of immune neuromodulators in the hippocampus of aged mice

Isolated herpes simplex in the adult larynx as a rare complication of methotrexate-induced immunosuppression

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iTRAQ: a method to elucidate cellular responses to mycotoxin zearalenone

Jeju ground water containing vanadium induced immune activation on splenocytes of low dose gammarays-irradiated mice

Jet fuel-induced immunotoxicity

JP-8 induces immune suppression via a reactive oxygen species NF-kappabeta-dependent mechanism

JP-8 jet fuel exposure results in immediate immunotoxicity, which is cumulative over time

JP-8 jet fuel exposure suppresses the immune response to viral infections

Kaposi's sarcoma-associated herpesvirus-encoded replication and transcription activator impairs innate immunity via ubiquitin-mediated degradation of myeloid differentiation factor 88

Kawasaki syndrome. Association with exposure to carpet shampoo and successful therapy with immunoglobulins in the second week of the illness

Keratinocyte-derived cytokines and UVB-induced immunosuppression

Ketoprofen impairs immunosuppression induced by severe sepsis and reveals an important role for prostaglandin E2

Keyhole limpet haemocyanin - a model antigen for human immunotoxicological studies

Keynote lecture in the 13th Japanese Society of Immunotoxicology (JSIT 2006) : -Pathophysiological Development and Immunotoxicology: what we have found from research related to silica and silicate such as asbestos

Kidney disorders induced by non-steroidal anti-inflammatory agents and immunomodulators

Kinetic determination of vitellogenin induction in the epidermis of cyprinid and perciform fishes: Evaluation of sensitive enzyme-linked immunosorbent assays

Kinetic of the CMV-specific T-cell immune response and CMV infection in CMV-seropositive kidney transplant recipients receiving rabbit anti-thymocyte globulin induction therapy: A pilot study

Kinin B1 receptor deficiency attenuates cisplatin-induced acute kidney injury by modulating immune cell migration

Klotho protects human monocytes from LPS-induced immune impairment associated with immunosenescent-like phenotype

Laboratory diagnosis of heparin-associated thrombocytopenia and comparison of platelet aggregation test, heparin-induced platelet activation test, and platelet factor 4/heparin enzyme-linked immunosorbent assay

Laboratory diagnosis of heparin-induced thrombocytopenia in Asian Indians as investigated with functional and immunologic methods

Laboratory diagnosis of immune heparin-induced thrombocytopenia

Lack of autoantibody induction by mercury exposure in artisanal gold mining settings in Colombia: Findings and a review of the epidemiology literature

Lack of effect of Vitamin A on corticosteroid-induced immunosuppression

Lack of immunotoxicity of saquinavir (Ro 31-8959) used alone or in double or triple combination with AZT and ddC

Lactic acidemia in human immunodeficiency virus-uninfected infants exposed to perinatal antiretroviral therapy

Lactobacillus casei HY7213 ameliorates cyclophosphamide-induced immunosuppression in mice by activating NK, cytotoxic T cells and macrophages

Lactobacillus delbrueckii ssp. bulgaricus OLL1073R-1 feeding enhances humoral immune responses, which are suppressed by the antiviral neuraminidase inhibitor oseltamivir in influenza A virus-infected mice

Lactobacillus johnsonii provides a dose-dependent protection against UVR-induced immunosuppression

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Lactobacillus plantarum KLDS1.0318 Ameliorates Impaired Intestinal Immunity and Metabolic Disorders in Cyclophosphamide-Treated Mice

Lactobacillus plantarum NCU116 Attenuates Cyclophosphamide-Induced Immunosuppression and Regulates Th17/Treg Cell Immune Responses in Mice

Lactobacillus reuteri CRL 1098 and Lactobacillus acidophilus CRL 1014 differently reduce in vitro immunotoxic effect induced by Ochratoxin A

Lamotrigine-induced common variable immune deficiency

Lamotrigine-induced toxic epidermal necrolysis treated with intravenous cyclosporin: a discussion of pathogenesis and immunosuppressive management

L-arginine and L-glutamine as immunonutrients and modulating agents for oxidative stress and toxicity induced by sodium nitrite in rats

L-Arginine reverses radiation-induced immune dysfunction: the need for optimum treatment window

Lasting effects of an impairment of Th1-like immune response in gamma-irradiated mice: A resemblance between irradiated mice and aged mice

Late conversion from tacrolimus to a belatacept-based immuno-suppression regime in kidney transplant recipients improves renal function, acid-base derangement and mineral-bone metabolism

Late onset neutropenia and immunoglobulin suppression of the patients with malignant lymphoma following autologous stem cell transplantation with rituximab

Late-onset pericardial tamponade, bilateral pleural effusions and recurrent immune monoarthritis induced by ipilimumab use for metastatic melanoma

Lead alters the immunogenicity of two neural proteins: a potential mechanism for the progression of lead-induced neurotoxicity

Lead and immune function

Lead exposure reduces carotenoid-based coloration and constitutive immunity in wild mallards

Lead induced modulation of splenic macrophage responses on humoral and cell mediated immunity

Lead toxicity on non-specific immune mechanisms of freshwater fish Channa punctatus

Lead toxicity: from overt to subclinical to subtle health effects

Leakage of mitochondrial and cytosolic GOT in isolated rat hepatocytes exposed to halothane: an immunohistochemical study

Lethal and sub-lethal evaluation of Indigo Carmine dye and byproducts after TiO2 photocatalysis in the immune system of Eisenia andrei earthworms

Letter: Tinea faciei exacerbated by topical immunomodulation: Two case reports

Leukopenia and altered hematopoietic activity in mice exposed to the abused inhalant, isobutyl nitrite

Levels of serum oxidoreductases (LD, MD, ICD), blood proteins, immunoglobulins, and ceruloplasmin in a group of workers exposed to carbon disulfide

Levocarnitine administration in multiple sclerosis patients with immunosuppressive therapy-induced fatigue

Lichen planus and lichenoid drug-induced eruption: a histological and immunohistochemical study

Life events, frontal electroencephalogram laterality, and functional immune status after acute psychological stressors in adolescents

Life stress and cervical squamous intraepithelial lesions in women with human papillomavirus and human immunodeficiency virus

Lifelong persistent viral infection alters the naive T cell pool, impairing CD8 T cell immunity in late life

Lifespan-extending caloric restriction or mTOR inhibition impair adaptive immunity of old mice by distinct mechanisms

Life-threatening piperacillin-induced immune haemolysis in a patient with cystic fibrosis

Life-threatening rituximab-induced pyoderma gangrenosum successfully treated with intravenous immunoglobulin

Life-threatenting ceftriaxone-induced immune hemolytic anemia in a child with Crohn's disease

Limited immunotoxic potential of technical formulation of the herbicide atrazine (AAtrex) in mice

Lindane-induced immunological alterations in human poisoning cases

Linear immunoglobulin A bullous dermatosis induced by gemcitabine

Linear immunoglobulin A bullous dermatosis possibly induced by mefenamic acid

Links between prolonged exposure to xenobiotics, increased incidence of hepatopathies, immunological disturbances and exacerbation of latent Epstein-Barr virus infections

Lipoic acid attenuates high fat diet-induced chronic oxidative stress and immunosuppression in mice jejunum: a microarray analysis

Lipopolysaccharide (LPS) induced activation of the immune system in control rats and rats chronically exposed to a low level of the organothiophosphate insecticide, acephate

Lipopolysaccharide impairs mucin secretion and stimulated mucosal immune stress response in respiratory tract of neonatal chicks

Lipopolysaccharide induces paired immunoglobulin-like receptor B (PirB) expression, synaptic alteration, and learning-memory deficit in rats

Lipopolysaccharide levels adherent to PM2.5 play an important role in particulate matter inducedimmunosuppressive effects in mouse splenocytes

Lipopolysaccharide-induced immune activation impairs attention but has little effect on short-term working memory

Liposome-mediated combinatorial cytokine gene therapy induces localized synergistic immunosuppression and promotes long-term survival of cardiac allografts

Liver antioxidant and plasma immune responses in juvenile golden grey mullet (Liza aurata) exposed to dispersed crude oil

Liver enzyme function and humoral immunity in workers exposed to vinyl chloride

Local immunity and methods for its assessment upon exposure to ambient air-polluting biologicals

Local versus systemic immunotoxicity of isobutyl nitrite following subchronic inhalation exposure of female B6C3F1 mice

Localization and composition of renal immunodeposits in mice developing HgCl2-induced autoimmune process

Long term effects of carbaryl exposure on antiviral immune responses in Xenopus laevis

Long-term effect of Spirulina platensis extract on DMBA-induced hamster buccal pouch carcinogenesis (immunohistochemical study

Long-term effects of immunotoxic cholinergic lesions in the septum on acquisition of the cone-field task and noncognitive measures in rats

Long-term effects on humoral immunity among workers exposed to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD

Long-term effects on the immune system following local irradiation for breast cancer. Pokeweed mitogen induced immunoglobulin secretion by blood lymphocytes and serum immunoglobulin levels

Long-term exposure to arsenic affects head kidney and impairs humoral immune responses of Clarias batrachus

Long-term exposure to high levels of decabrominated diphenyl ether inhibits CD4 T-cell functions in C57BI/6 mice

Long-term exposure to PCB in broiler chickens--metabolic and immunotoxic effects

Long-term immune dysfunction after radiotherapy to the head and neck area

Long-term immune dysfunction in rainbow trout (Oncorhynchus mykiss) exposed as embryos to aflatoxin B1

Long-term Immunotoxic Effects of Oral Prenatal and Neonatal Atrazine Exposure

Long-term moderate calorie restriction inhibits inflammation without impairing cell-mediated immunity: a randomized controlled trial in non-obese humans

Long-term sun exposure alters the collagen of the papillary dermis. Comparison of sun-protected and photoaged skin by northern analysis, immunohistochemical staining, and confocal laser scanning microscopy

Long-term toxicity of immune suppression in juvenile rheumatic diseases

Long-Time Instead of Short-Time Exposure in Vitro and Administration in Vivo of Ochratoxin A Is Consistent in Immunosuppression

Long-wave UVA offers partial protection against UVB-induced immune suppression in human skin

Loperamide-induced expression of immune and inflammatory genes in Collies associated with ivermectin sensitivity

Low dose exposure to cadmium and its health effects. (3) Toxicity in laboratory animals and cultured cells

Low dose TBT exposure decreases amphipod immunocompetence and reproductive fitness

Low doses of monocrotaline in rats cause diminished bone marrow cellularity and compromised nitric oxide production by peritoneal macrophages

Low level exposure to chemicals and immune system

Low levels of residual oil fly ash (ROFA) impair innate immune response against environmental mycobacteria infection in vitro

Low or excess levels of dietary cholesterol impaired immunity and aggravated inflammation response in young grass carp (Ctenopharyngodon idella

Low-dose azathioprine effectively suppresses clinical and immunological manifestations of generalized myasthenia

Low-dose exposure to inorganic mercury accelerates disease and mortality in acquired murine lupus

Low-dose inorganic mercury increases severity and frequency of chronic coxsackievirus-induced autoimmune myocarditis in mice

Low-dose interleukin-2 impairs host anti-tumor immunity and inhibits therapeutic responses in a mouse model of melanoma

Low-dose synergistic immunosuppression of T-dependent antibody responses by polycyclic aromatic hydrocarbons and arsenic in C57BL/6J murine spleen cells

Lower endotoxin immunity predicts increased cognitive dysfunction in elderly patients after cardiac surgery

Low-level dietary deoxynivalenol and acute exercise stress result in immunotoxicity in BALB/c mice

Low-level methylmercury exposure causes human T-cells to undergo apoptosis: evidence of mitochondrial dysfunction

LPS regulation of the immune response: Bacteroides endotoxin induces mitogenic, polyclonal, and antibody responses in classical LPS responsive but not C3H/HeJ mice

LPS-induced systemic inflammation reveals an immunomodulatory role for the prion protein at the blood-brain interface

Lycopene alleviates AFB1-induced immunosuppression by inhibiting oxidative stress and apoptosis in the spleen of mice

Lymphocyte dysfunction after DNA damage by toxic oxygen species. A model of immunodeficiency

Lymphocyte loss and immunosuppression following acetaminophen-induced hepatotoxicity in mice as a potential mechanism of tolerance

Lymphocyte proliferative response and tissue distribution of methylmercury sulfide and chloride in exposed rats

Lymphocyte subsets and Langerhans cells in sun-protected and sun-exposed skin of immunosuppressed renal allograft recipients

Macrophages are involved in hexachlorobenzene-induced adverse immune effects

Mafosfamide induces DNA fragmentation and apoptosis in human T-lymphocytes. A possible mechanism of its immunosuppressive action

Maintenance rituximab following induction chemo-immunotherapy for mantle cell lymphoma: long-term follow-up of a pilot study from the Wisconsin Oncology Network

MAIT cells launch a rapid, robust and distinct hyperinflammatory response to bacterial superantigens and quickly acquire an anergic phenotype that impedes their cognate antimicrobial function: Defining a novel mechanism of superantigen-induced immunopathology and immunosuppression

Maize prolamins could induce a gluten-like cellular immune response in some celiac disease patients

Malathion immunotoxicity in the American lobster (Homarus americanus) upon experimental exposure

Malathion, lindane, and piperonyl butoxide, individually or in combined mixtures, induce immunotoxicity via apoptosis in murine splenocytes in vitro

Malnutrition and impaired immune response to infection

Malnutrition, urocanic acid, and sun may interact to suppress immunity in sojourners to high altitude

Mammalian immunoassays for predicting the toxicity of malathion in a laboratory fish model

Management of adverse events induced by next-generation immunomodulatory drug and proteasome inhibitors in multiple myeloma

Management of immune dysfunction after adult cardiac surgery

Managing immune checkpoint-inhibitor-induced severe autoimmune-like hepatitis by liver-directed topical steroids

Manganese tissue accumulation and tyrosine hydroxylase immunostaining response in the Neotropical freshwater crab, Dilocarcinus pagei, exposed to manganese

Manifestations of cellular immunity in the rat after prolonged asbestos inhalation. II. Alveolar macrophage-induced splenic lymphocyte proliferation

Markers for immunotoxic effects in rodents and man

Mast cells in the intestine and gills of the sea bream, Sparus aurata, exposed to a polychlorinated biphenyl, PCB 126

Mast cells mediate the immune suppression induced by dermal exposure to JP-8 jet fuel

Maternal adrenalectomy alters the immune and endocrine functions of fetal alcohol-exposed male offspring

Maternal and early postnatal polychlorinated biphenyl exposure in relation to total serum immunoglobulin concentrations in 6-month-old infants

Maternal exposure to airborne particulate matter causes postnatal immunological dysfunction in mice offspring

Maternal exposure to fish oil primes offspring to harbor intestinal pathobionts associated with altered immune cell balance

Maternal exposure to particulate matter alters early post-natal lung function and immune cell development

Maternal exposure to silver nanoparticles are associated with behavioral abnormalities in adulthood: Role of mitochondria and innate immunity in developmental toxicity

Maternal Immune Activation Causes Behavioral Impairments and Altered Cerebellar Cytokine and Synaptic Protein Expression

Maternal Lipopolysaccharide Exposure Promotes Immunological Functional Changes in Adult Offspring CD4+ T Cells

Maternal lipopolysaccharide-induced inflammation during pregnancy programs impaired offspring innate immune responses

Maternal obesity programs offspring nonalcoholic fatty liver disease by innate immune dysfunction in mice

Maternal separation in early life impairs tumor immunity in adulthood in the F344 rat

Maternal smoking is associated with impaired neonatal toll-like-receptor-mediated immune responses

Maternal transfer and sublethal immune system effects of brevetoxin exposure in nesting loggerhead sea turtles (Caretta caretta) from western Florida

Maternal undernutrition induces neuroendocrine immune dysfunction in male pups at weaning

Maternal-Fetal Cancer Risk Assessment of Ochratoxin A during Pregnancy

MDCO-216 Does Not Induce Adverse Immunostimulation, in Contrast to Its Predecessor ETC-216

Measurement of airborne flour exposure with a monoclonal antibody-based immunoassay

Measures of resting immune function and related physiology in juvenile rainbow trout exposed to a pulp mill effluent

Mechanical ventilation of healthy rats suppresses peripheral immune function

Mechanism of 7,12-dimethylbenz[a]anthracene-induced immunotoxicity: role of metabolic activation at the target organ

Mechanism of deoxynivalenol effects on the reproductive system and fetus malformation: Current status and future challenges

Mechanism of immunosuppression in zebrafish (Danio rerio) spleen induced by environmentally relevant concentrations of perfluorooctanoic acid

Mechanism of immunotoxicological effects of tributyltin chloride on murine thymocytes

Mechanism of perfluorooctanesulfonate (PFOS)-induced apoptosis in the immunocyte

Mechanism of systemic immune suppression by UV irradiation in vivo. II. The UV effects on number and morphology of epidermal Langerhans cells and the UV-induced suppression of contact hypersensitivity have different wavelength dependencies

Mechanism of TCDD-induced suppression of antibody production: effect on T cell-derived cytokine production in the primary immune reaction of mice

Mechanism of UVB-induced suppression of the immune response to Mycobacterium bovis bacillus Calmette-Guerin: role of cytokines on macrophage function

Mechanisms for how inhaled multiwalled carbon nanotubes suppress systemic immune function in mice

Mechanisms involved in the immunotoxicity induced by dermal application of JP-8 jet fuel

Mechanisms of 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin (HpCDD)-induced humoral immune suppression: evidence of primary defect in T-cell regulation

Mechanisms of dimethylbenzanthracene-induced immunotoxicity

Mechanisms of ethanol-induced immunosuppression

Mechanisms of immune dysfunction in stem cell transplantation

Mechanisms of immunotoxic effects of acrylonitrile

Mechanisms of organophosphorus pesticide toxicity in the context of airway hyperreactivity and asthma

Mechanisms underlying the suppression of established immune responses by ultraviolet radiation

Mechanisms underlying UV-induced immune suppression: implications for sunscreen design

Medical management and sublingual immunotherapy practices in patients with house dust miteinduced respiratory allergy: a retrospective, observational study

Melatonin alleviates aluminium chloride-induced immunotoxicity by inhibiting oxidative stress and apoptosis associated with the activation of Nrf2 signaling pathway

Melatonin ameliorates ochratoxin A-induced oxidative stress and apoptosis in porcine oocytes

Mercuric chloride induces a strong immune activation, but does not accelerate the development of dermal fibrosis in tight skin 1 mice

Mercury Accumulation, Structural Damages, and Antioxidant and Immune Status Changes in the Gilthead Seabream (Sparus aurata L.) Exposed to Methylmercury

Mercury and autoimmunity: implications for occupational and environmental health

Mercury compounds and the immune system: a review

Mercury exposure and children's health

Mercury Exposure and Heart Diseases

Mercury exposure in protein A immunoadsorption

Mercury exposure, serum antinuclear/antinucleolar antibodies, and serum cytokine levels in mining populations in Amazonian Brazil: a cross-sectional study

Mercury impairment of mouse thymocyte survival in vitro: involvement of cellular thiols

Mercury-induced autoimmune glomerulonephritis in inbred rats. II. Immunohistopathology, histopathology and effects of prostaglandin administration

Meropenem-induced immune thrombocytopenia and the diagnostic process of laboratory testing

Mesenteric lymph node Tgammadelta cells induced by gastrectomy in mice suppress cell-mediated immune response in vitro via released TGF-beta

Metabolic and immune impairments induced by the endocrine disruptors benzo[a]pyrene and triclosan in Xenopus tropicalis

Metabolic and immunological disorders induced by long-term treatment with phenytoin

Metabolic pathways of ochratoxin A

Metabolic profiling study on potential toxicity and immunotoxicity-biomarker discovery in rats treated with cyclophosphamide using HPLC-ESI-IT-TOF-MS

Metabolic requirements for induction of contact hypersensitivity to immunotoxic polyaromatic hydrocarbons

Metabolic Syndrome after Hematopoietic Cell Transplantation: At the Intersection of Treatment Toxicity and Immune Dysfunction

Metabolism and toxicity of aflatoxins M1 and B1 in human-derived in vitro systems

Metabolite-specific (IgG) and drug-specific antibodies (IgG, IgM) in two cases of trimethoprimsulfamethoxazole-induced immune thrombocytopenia

Metal allergens of growing significance: epidemiology, immunotoxicology, strategies for testing and prevention

Metal-induced impairment of the cellular immunity of newborn harbor seals (Phoca vitulina

Metallothionein-null mice are highly susceptible to the hematotoxic and immunotoxic effects of chronic CdCl2 exposure

Methamphetamine activates nuclear factor kappa-light-chain-enhancer of activated B cells (NF-kappaB) and induces human immunodeficiency virus (HIV) transcription in human microglial cells

Methamphetamine induces trace amine-associated receptor 1 (TAAR1) expression in human T lymphocytes: role in immunomodulation

Method for evaluation of immunotoxicity of dioxin compounds using human T-lymphoblastic cell line, L-MAT

Methods for Analysis of Nanoparticle Immunosuppressive Properties In Vitro and In Vivo

Methods for Assessing Mast Cell Responses to Engineered Nanomaterial Exposure

Methotrexate-induced iatrogenic immunodeficiency-associated lymphoproliferative disorder causing hypercalcaemia

Methylenedioxymethamphetamine ('Ecstasy')-induced immunosuppression: a cause for concern

Methylmercury/copper effects on hemosiderin: possible mechanism of immune suppression in fish

Methylmercury-induced movement and postural disorders in developing rat: loss of somatostatinimmunoreactive interneurons in the striatum

Methylprednisolone-induced immune thrombocytopenia

Methylprednisolone-Induced Lymphocytosis in Patients with Immune-Mediated Inflammatory Disorders

Mice repeatedly exposed to Group-A beta-Haemolytic Streptococcus show perseverative behaviors, impaired sensorimotor gating, and immune activation in rostral diencephalon

Mice with genetically determined high susceptibility to ultraviolet (UV)-induced immunosuppression show enhanced UV carcinogenesis

Microbial Degradation of Cellular Kinases Impairs Innate Immune Signaling and Paracrine TNFalpha Responses

Microcystin-LR exposure to adult zebrafish (Danio rerio) leads to growth inhibition and immune dysfunction in F1 offspring, a parental transmission effect of toxicity

Microcystin-LR Induced Immunotoxicity in Mammals

Microcystin-LR induces cytotoxicity and affects carp immune cells by impairment of their phagocytosis and the organization of the cytoskeleton

Microcystin-LR modulates selected immune parameters and induces necrosis/apoptosis of carp leucocytes

Microcystin-LR toxicodynamics, induced pathology, and immunohistochemical localization in livers of blue-green algae exposed rainbow trout (oncorhynchus mykiss

Microgravity inhibits resting T cell immunity in an exposure time-dependent manner

Micronized, Heat-Treated Lactobacillus plantarum LM1004 Alleviates Cyclophosphamide-Induced Immune Suppression

Micronutrient deficiencies are associated with impaired immune response and higher burden of respiratory infections in elderly Ecuadorians

MicroRNA-155 and microRNA-181a, via HO-1, participate in regulating the immunotoxicity of cadmium in the kidneys of exposed Cyprinus carpio

Microsomal expoxide hydrolase is required for 7,12-dimethylbenz[a]anthracene (DMBA)-induced immunotoxicity in mice

Midazolam impairs immune functions: it's time to take care of dendritic cells

Miliary Mycobacterium bovis induced by intravesical bacille Calmette-Guerin immunotherapy

Minimal immunological changes in structurally malformed rats after prenatal exposure to cyclophosphamide

Minimal immunological effects on workers with prolonged low exposure to inorganic mercury

Minimum doses of ultraviolet radiation required to induce murine skin edema and immunosuppression are different and depend on the ultraviolet emission spectrum of the source

Minocycline-induced immune thrombocytopenia presenting as Schamberg's disease

Minor effects of low exposure to inorganic mercury on the human immune system

MiR-122 partly mediates the ochratoxin A-induced GC-2 cell apoptosis

MiR-582-5p/miR-590-5p targeted CREB1/CREB5-NF-kappaB signaling and caused opioid-induced immunosuppression in human monocytes

Misoprostol impairs female reproductive tract innate immunity against Clostridium sordellii

Mitigation of Hydrophobicity-Induced Immunotoxicity by Sugar Poly(orthoesters

Mitochondrial functions of THP-1 monocytes following the exposure to selected natural compounds

Mitochondrial peroxiredoxin 3 (Prx3) from rock bream (Oplegnathus fasciatus): immune responses and role of recombinant Prx3 in protecting cells from hydrogen peroxide induced oxidative stress

Mitotic activity of keratinocytes in nifedipine- and immunosuppressive medication-induced gingival overgrowth

Mixed mold mycotoxicosis: immunological changes in humans following exposure in water-damaged buildings

MNU-induced rat mammary carcinomas: immunohistology and estrogen receptor expression

Modeling and predicting immunological effects of chemical stressors: characterization of a quantitative biomarker for immunological changes caused by atrazine and ethanol

Modeling the Function of TATA Box Binding Protein in Transcriptional Changes Induced by HIV-1 Tat in Innate Immune Cells and the Effect of Methamphetamine Exposure

Modeling toxicodynamic effects of trichloroethylene on liver in mouse model of autoimmune hepatitis

Modelling the immunopathophysiology of Brucella melitensis and its lipopolysaccharide in mice infected via oral route of exposure

Moderate prenatal alcohol exposure suppresses the TLR4-mediated innate immune response in the hippocampus of young rats

Modification of immunoreactive EGF and EGF receptor after acute tubular necrosis induced by tobramycin or cisplatin

Modification of primary amines to higher order amines reduces in vivo hematological and immunotoxicity of cationic nanocarriers through TLR4 and complement pathways

Modifications of immunological and neuro-endocrine parameters induced by antiorthostatic bed-rest in human healthy volunteers

Modifications of neuronal phosphorylated tau immunoreactivity induced by NMDA toxicity

Modulating effect of MgO-SiO2 nanoparticles on immunological and histopathological alterations induced by aflatoxicosis in rats

Modulation of benzo[a]pyrene induced immunotoxicity in mice actively immunized with a B[a]Pdiphtheria toxoid conjugate

Modulation of benzo[a]pyrene induced neurotoxicity in female mice actively immunized with a B[a]Pdiphtheria toxoid conjugate

Modulation of biochemical parameters by Hemidesmus indicus in cumene hydroperoxide-induced murine skin: possible role in protection against free radicals-induced cutaneous oxidative stress and tumor promotion

Modulation of immune and antioxidant responses by azinphos-methyl in the freshwater mussel Diplodon chilensis challenged with Escherichia coli

Modulation of immune response by organophosphorus pesticides: fishes as a potential model in immunotoxicology

Modulation of immune responses with nanoparticles and reduction of their immunotoxicity

Modulation of immune-associated parameters and antioxidant responses in the crab (Scylla serrata) exposed to mercury

Modulation of macrophage activation by ammonium metavanadate

Modulation of murine peritoneal macrophage function by chronic exposure to arsenate in drinking water

Modulation of N-methyl-N-nitrosourea-induced crypt restricted metallothionein immunopositivity in mouse colon by a non-genotoxic diet-related chemical

Modulation of signal transduction pathways in lymphocytes due to sub-lethal toxicity of chlorinated phenol

Modulation of T-helper cell populations: potential mechanisms of respiratory hypersensitivity and immune suppression

Modulatory efficacy of green tea polyphenols on glycoconjugates and immunological markers in 4-Nitroquinoline 1-oxide-induced oral carcinogenesis-A therapeutic approach

Modulatory role of dietary Chlorella vulgaris powder against arsenic-induced immunotoxicity and oxidative stress in Nile tilapia (Oreochromis niloticus

Modulatory role of dietary Thymus vulgaris essential oil and Bacillus subtilis against thiamethoxaminduced hepatorenal damage, oxidative stress, and immunotoxicity in African catfish (Clarias garipenus

Modulatory role of L-carnitine against microcystin-LR-induced immunotoxicity and oxidative stress in common carp

Molecular and immune toxicity of CoCr nanoparticles in MoM hip arthroplasty

Molecular and immunological toxic effects of nanoparticles

Molecular cloning, immunohistochemical localization, characterization and expression analysis of caspase-8 from the blunt snout bream (Megalobrama amblycephala) exposed to ammonia

Molecular determinants of UV-induced immunosuppression

Molecular insight of arsenic-induced carcinogenesis and its prevention

Molecular mechanisms of amitraz mammalian toxicity: a comprehensive review of existing data

Molecular mechanisms underlying mancozeb-induced inhibition of TNF-alpha production

Monitoring antioxidant defenses and free radical production in space-flight, aviation and railway engine operators, for the prevention and treatment of oxidative stress, immunological impairment, and premature cell aging

Monitoring of azathioprine-induced immunosuppression with thiopurine methyltransferase activity in kidney transplant recipients

Monoclonal gammopathy after intense induction immunosuppression in renal transplant patients

Morphine impairs host innate immune response and increases susceptibility to Streptococcus pneumoniae lung infection

Morphine induced, behavioural, biochemical and immunological correlations

Morphine or U-50,488 suppresses Fos protein-like immunoreactivity in the spinal cord and nucleus tractus solitarii evoked by a noxious visceral stimulus in the rat

Morphological alteration, lysosomal membrane fragility and apoptosis of the cells of Indian freshwater sponge exposed to washing soda (sodium carbonate

Morphological analysis of glomerular lesions in renal transplants immunosuppressed with cyclosporine A (CYA): has CYA induced a new transplant glomerular lesion

Morphological and immunobiochemical analysis of the liver in L-arginine induced experimental chronic pancreatitis

Morphological and immunohistochemical changes on rat skin exposed to nitrogen mustard

Morphological and immunohistochemical characteristics of the thymus during chemical carcinogenesis induced by 1,2-dimethylhydrazine administration

Morphological and immunohistochemical studies on porcine serum-induced rat liver fibrosis

Morphological changes in the thyroid and adrenals under the bitemporal action of a UHF electrical field and decimeter waves (experimental research).

Morphological features of the organs of the immune system in conditions of exposure to chromium and benzene

Mouse allergen exposure and immunologic responses: IgE-mediated mouse sensitization and mouse specific IgG and IgG4 levels

Mouse lung immune response after acute exposure to flour dust

Moxifloxacin as the likely cause of drug-induced linear immunoglobulin A bullous dermatosis

Mucosal-associated invariant T cells from patients with tuberculosis exhibit impaired immune response

Multilaboratory evaluation of 15 bioassays for (eco)toxicity screening and hazard ranking of engineered nanomaterials: FP7 project NANOVALID

Multiorgan failure induced by intravenous immunoglobulin

Multiparametric immunotoxicity screening in mice during early drug development

Multiple biomarkers of the cytotoxicity induced by BDE-47 in human embryonic kidney cells

Multiple enlarged metabolically active lymph nodes in 18F-FDG PET/CT after anti-CTLA-4 antibody therapy in metastatic melanoma - disease progression or immunologically induced side effect

Multiple experimental approaches of immunotoxic effects of mercury chloride in the blue mussel, Mytilus edulis, through in vivo, in tubo and in vitro exposures

Multiple myeloma: clusters, clues, and dioxins

Murine membranous nephropathy: immunization with alpha3(IV) collagen fragment induces subepithelial immune complexes and FcgammaR-independent nephrotic syndrome

Murine model of ethanol-induced immunosuppression

Mutagenic and morphologic impacts of 1.8GHz radiofrequency radiation on human peripheral blood lymphocytes (hPBLs) and possible protective role of pre-treatment with Ginkgo biloba (EGb 761).

Mutual augmentation of the induction of the histamine-forming enzyme, histidine decarboxylase, between alendronate and immuno-stimulants (IL-1, TNF, and LPS), and its prevention by clodronate

Myasthenia triggered by immune checkpoint inhibitors: New case and literature review

Mycobacterium infection from a cardiopulmonary bypass heater-cooler unit in a patient with steroidinduced immunosuppression

Mycobiota and Ochratoxin A in laboratory mice feed: preliminary study

Mycolactone-producing Mycobacterium marinum infection in captive Hong Kong warty newts and pathological evidence of impaired host immune function

Mycophenolate mofetil and reduced doses of cyclosporine in pediatric liver transplantation with chronic renal dysfunction: changes in the immune responses

Mycophenolate mofetil-based calcineurin inhibitor reduced immunosuppressive protocol for the improvement of renal dysfunction after liver transplantation

Mycophenolate mofetil-based, cyclosporine-free induction and maintenance immunosuppression: first-3-months analysis of efficacy and safety in two cohorts of renal allograft recipients

Mycotoxicoses in children

Mycotoxins, general view, chemistry and structure

Myeloid-derived suppressor cells accumulate in the liver site after sepsis to induce immunosuppression

N,N,-diethyl-m-toluamide (DEET) suppresses humoral immunological function in B6C3F1 mice

Nanomaterial Exposure Induced Neutrophil Extracellular Traps: A New Target in Inflammation and Innate Immunity

Nanomaterial Induced Immune Responses and Cytotoxicity

Nanoparticles of zinc oxide defeat chlorpyrifos-induced immunotoxic effects and histopathological alterations

Nanosafety studies of nanomaterials about biodistribution and immunotoxicity

Natural killer activity in Fischer-344 rat lungs as a method to assess pulmonary immunocompetence: immunosuppression by phosgene inhalation

Naturally occurring level of mixed aflatoxins B and G stimulate toll-like receptor-4 in bovine mononuclear cells

Necrotizing Autoimmune myopathy: A case report on statin induced rhabdomyolysis requiring immunosuppressive therapy

Negative effect of chronic cadmium exposure on growth, histology, ultrastructure, antioxidant and innate immune responses in the liver of zebrafish: Preventive role of blue light emitting diodes

Neonatal exposure to mild hyperoxia causes persistent increases in oxidative stress and immune cells in the lungs of mice without altering lung structure

Neonatal exposure to UVR alters skin immune system development, and suppresses immunity in adulthood

Neonatal phytoestrogen exposure alters oviduct mucosal immune response to pregnancy and affects preimplantation embryo development in the mouse

Neonicotinoid-induced pathogen susceptibility is mitigated by Lactobacillus plantarum immune stimulation in a Drosophila melanogaster model

Nerve growth factor produced by activated human monocytes/macrophages is severely affected by ethanol

Neurodegeneration Triggers Peripheral Immune Cell Recruitment into the Forebrain

Neurodevelopmental disorders: Impaired immune system function linked to social behaviour deficits in mice

Neuroendocrine and Eosinophilic Granule Cells in the Gills of Tilapia, Oreochromis niloticus: Effects of Waterborne Copper Exposure

Neuroendocrine and immunotoxicity of polyaromatic hydrocarbon, chrysene in crustacean post larvae

Neuro-immune interactions in psychopathology with the example of interferon-alpha-induced depression

Neurologic and immunologic effects of exposure to corticosterone, chlorpyrifos, and multiple doses of tri-ortho-tolyl phosphate over a 28-day period in rats

Neuro-Modulation of Immuno-Endocrine Response Induced by Kaliotoxin of Androctonus Scorpion Venom

Neuron specific enolase (NSE) immunostaining detection of endocrine cell hyperplasia in adult rats exposed to asbestos

Neuron-immune interactions in the sensitized thalamus induced by mustard oil application to rat molar pulp

Neuropathophysiological effect and immuno-inflammatory response induced by kaliotoxin of androctonus scorpion venom

Neurophysiological, histological and immunohistochemical characterization of bortezomib-induced neuropathy in mice

Neurotoxic Anatoxin-a Can Also Exert Immunotoxicity by the Induction of Apoptosis on Carassius auratus Lymphocytes in vitro When Exposed to Environmentally Relevant Concentrations

Neurotoxic and immunotoxic effects of fenthion and omethoate on frogs at acute exposure

Neurotoxic and immunotoxic effects of Indole-3-butyric acid on rats at subacute and subchronic exposure

Neurotoxic effects of ochratoxin A on the subventricular zone of adult mouse brain

Neurotoxicity and immunotoxicity assessment in CBA/J mice with chronic Toxoplasma gondii infection and multiple oral exposures to methylmercury

Neurotoxicity and immunotoxicity assessment in CBA/J mice with chronic Toxoplasma gondii infection and single-dose exposure to methylmercury

Neurotoxicity of toluene

Neutralizing antibodies obtained in a persistent immune response are effective against deleterious effects induced by the Thalassophryne nattereri fish venom

Neutrophil depletion during Toxoplasma gondii infection leads to impaired immunity and lethal systemic pathology

Neutrophil function after exposure to polychlorinated biphenyls in vitro

Neutrophil protease inhibition reduces neuromyelitis optica-immunoglobulin G-induced damage in mouse brain

New insights into the mechanisms of polymorphic light eruption: resistance to ultraviolet radiationinduced immune suppression as an aetiological factor

New mechanism of organophosphorus pesticide-induced immunotoxicity

NF-kappaB activation via MyD88-dependent Toll-like receptor signaling is inhibited by trichothecene mycotoxin deoxynivalenol

Nickel - role in human organism and toxic effects

Nicotinamide reduces photodynamic therapy-induced immunosuppression in humans

Nitric oxide appears to be a mediator of solar-simulated ultraviolet radiation-induced immunosuppression in humans

Nitric oxide synthase immunolocalization and expression in the rat hippocampus after sub-acute lead acetate exposure in rats

Nitric oxide synthase inhibitor, aminoguanidine reduces intracerebroventricular colchicine induced neurodegeneration, memory impairments and changes of systemic immune responses in rats

Nitrofurantoin-induced immune-mediated lung and liver disease

Nivolumab-induced acute-onset type 1 diabetes mellitus as an immune-related adverse event: A case report

Nivolumab-Induced Subcutaneous Fat Necrosis: Another FDG-Avid Immune-Related Adverse Event

Nivolumab-induced type 1 diabetes mellitus as an immune-related adverse event

Non-analgesic effects of opioids: mechanisms and potential clinical relevance of opioid-induced immunodepression

Noncardiogenic pulmonary edema triggered by intravenous immunoglobulin in cancer-associated thrombotic thrombocytopenic purpura-hemolytic uremic syndrome

Nonclinical regulatory immunotoxicity testing of nanomedicinal products: Proposed strategy and possible pitfalls

Non-coplanar PCB-mediated modulation of human leukocyte phagocytosis: a new mechanism for immunotoxicity

Non-coplanar polychlorinated biphenyl (PCB)-induced immunotoxicity is coincident with alterations in the serotonergic system

Non-cytotoxic hydroxyl-functionalized exfoliated boron nitride nanoflakes impair the immunological function of insect haemocytes in vivo

Non-immunologic factor: immunosuppressive drug-induced nephrotoxicity

Normal development of tyrosine hydroxylase and serotonin immunoreactive fibers innervating anterior cingulate cortex and visual cortex in rabbits exposed prenatally to cocaine

Normalizing effect of plant-originated glycoprotein (116 kDa) on G0/G1 arrest in cadmium chlorideinduced primary cultured mouse myelocytes

Novel Acaricidal Drug Fluazuron Causes Immunotoxicity via Selective Depletion of Lymphocytes T CD8

Novel Approach in Monocyte Intracellular TNF Measurement: Application to Sepsis-Induced Immune Alterations

Novel biomarkers of mercury-induced autoimmune dysfunction: a cross-sectional study in Amazonian Brazil

Novel CD3-specific antibody induces immunosuppression via impaired phosphorylation of LAT and PLCgamma1 following T-cell stimulation

Novel compound 2-methyl-2H-pyrazole-3-carboxylic acid (2-methyl-4-o-tolylazo-phenyl)-amide (CH-223191) prevents 2,3,7,8-TCDD-induced toxicity by antagonizing the aryl hydrocarbon receptor

Novel evidence of microglial immune response in impairment of Dengue infection of CNS

Novel gene markers of immunosuppressive chemicals in mouse lymph node assay

Novel mechanisms of gliadin immunotoxicity

Novel Use of All-Trans-Retinoic Acid in A Model of Lipopolysaccharide-Immunosuppression to Decrease the Generation of Myeloid-Derived Suppressor Cells by Reducing the Proliferation of CD34+ Precursor Cells

Nrf2 Regulates the Risk of a Diesel Exhaust Inhalation-Induced Immune Response during Bleomycin Lung Injury and Fibrosis in Mice

Nrf2-dependent repression of interleukin-12 expression in human dendritic cells exposed to inorganic arsenic

Nutritional aspects of immunosuppression in athletes

O(6)-benzylguanine enhances the in vitro immunotoxic activity of temozolomide on natural or antigendependent immunity

Obesity impairs cell-mediated immunity during the second trimester of pregnancy

Obesity is associated with impaired immune response to influenza vaccination in humans

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Occurrences and Outcomes of Immune Checkpoint Inhibitors-Induced Vitiligo in Cancer Patients: A Retrospective Cohort Study

Ochratoxin A exerts neurotoxicity in human astrocytes through mitochondria-dependent apoptosis and intracellular calcium overload

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Ochratoxin A from a toxicological perspective

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Ochratoxin A induces oxidative DNA damage and G1 phase arrest in human peripheral blood mononuclear cells in vitro

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Ochratoxin A: developmental and reproductive toxicity-an overview

Ochratoxin a: its cancer risk and potential for exposure

Ochratoxin A: previous risk assessments and issues arising

Ochratoxin A: the continuing enigma

Ochratoxin A: Toxicity, oxidative stress and metabolism

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O-phenylphenol and its sodium and potassium salts: a toxicological assessment

Opioid-Induced Hyperalgesia Is Associated with Dysregulation of Circadian Rhythm and Adaptive Immune Pathways in the Mouse Trigeminal Ganglia and Nucleus Accumbens

Opioid-induced immunosuppression

Opioid-induced immunosuppression. A clinically relevant problem

Opioid-induced immunosuppression: is it centrally mediated or peripherally mediated

Opposite effects of the maternal immune system activated by interleukin-1beta vs. PSK and OK432 on 5azacytidine-induced birth defects

Optimal immunosuppressor induces stable gut microbiota after liver transplantation

Options for induction immunosuppression in liver transplant recipients

Oral (gavage), in utero and postnatal exposure of Sprague-Dawley rats to low doses of tributyltin chloride. Part 1: Toxicology, histopathology and clinical chemistry

Oral (gavage), in utero and post-natal exposure of Sprague-Dawley rats to low doses of tributyltin chloride. Part II: effects on the immune system

Oral administration of lipoteichoic acid from Lactobacillus rhamnosus GG overcomes UVB-induced immunosuppression and impairs skin tumor growth in mice

Oral administration of the immunomodulator JBT-3002 induces endogenous interleukin 15 in intestinal macrophages for protection against irinotecan-mediated destruction of intestinal epithelium

Oral benzo[a]pyrene: understanding pharmacokinetics, detoxication, and consequences--Cyp1 knockout mouse lines as a paradigm

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Oxaliplatin-induced immune thrombocytopenia

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Protective effect of triterpenoid fractions from the rhizomes of Astilbe chinensis on cyclophosphamideinduced toxicity in tumor-bearing mice

Protective effect of Vitamin D3 against lead induced hepatotoxicity, oxidative stress, immunosuppressive and calcium homeostasis disorders in rat

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Protective effects of antioxidants on deoxynivalenol-induced damage in murine lymphoma cells

Protective effects of Butea frondosa leaves against stress induced immune impairment in sprague dawley rats

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Pulmonary function and concentrations of alpha 1-antitrypsin and immunoglobulin E in workers exposed to pancreatic enzymes

Pulmonary glass particles may persist in the lung suppressing function of immune cells

Pulmonary immunotoxic potentials of metals are governed by select physicochemical properties: vanadium agents

Pulmonary immunotoxic potentials of metals are governed by select physicochemical properties: chromium agents

Pulmonary immunotoxicity of inhaled ammonium metavanadate in Fisher 344 rats

Pulmonary immunotoxicology of select metals: aluminum, arsenic, cadmium, chromium, copper, manganese, nickel, vanadium, and zinc

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Pulmonary toxicity following inhalation exposure to VX in anesthetized rats: Possible roles for compromised immunity and oxidative stress-induced lung injury

Pulse modulated 900 MHz radiation induces hypothyroidism and apoptosis in thyroid cells: a light, electron microscopy and immunohistochemical study

Pulsed' immunosuppressive therapy in the treatment of immunologically induced corneal and scleral disease

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Purinergic system as a potential target for inflammation and toxicity induced by thymol in immune cells and tissues

Pyrethroids used indoors--immune status of humans exposed to pyrethroids following a pest control operation--a one year follow-up study

QSPR/QSAR models for prediction of the physico-chemical properties and biological activity of polychlorinated diphenyl ethers (PCDEs

Quantitative and immunohistochemical evaluation of PCNA, androgen receptors, apoptosis, and Glutathione-S-Transferase P1 on preneoplastic changes induced by cadmium and zinc chloride in the rat ventral prostate

Quantitative assessment of mesangial immunoglobulin A (IgA) accumulation, elevated circulating IgA immune complexes, and hematuria during vomitoxin-induced IgA nephropathy

Quantitative modeling of suppression of IgG1, IgG2a, IL-2, and IL-4 responses to antigen in mice treated with exogenous corticosterone or restraint stress

Quantitative Proteomic Analysis Reveals That Arctigenin Alleviates Concanavalin A-Induced Hepatitis Through Suppressing Immune System and Regulating Autophagy

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Rapid granulomatosis with polyangiitis induced by immune checkpoint inhibition

Rapid immunoassays for diagnosis of heparin-induced thrombocytopenia: Comparison of diagnostic accuracy, reproducibility, and costs in clinical practice

Rat extracorporeal circulation model for evaluation of systemic immunotoxicity

Re: Biochemical evaluation of immunotoxic effects of cadmium in rats

Re: Nitrofurantoin-induced pulmonary hemorrhage in a renal transplant recipient receiving immunosuppressive therapy: case report and review of the literature

Reaction of the immune system to low-level RF/MW exposures.

Reactions to rubella vaccine and persistence of antibody in virgin-soil populations after vaccination and wild-virus-induced immunization

Reactive oxygen species (ROS) induced cytokine production and cytotoxicity of PAMAM dendrimers in J774A.1 cells

Reactive oxygen species sources and biomolecular oxidative damage induced by aflatoxin B1 and fumonisin B1 in rat spleen mononuclear cells

Recent advances in understanding the mechanisms of TCDD immunotoxicity

Recent studies on the effects of fetal alcohol exposure on the endocrine and immune systems

Recent US Food and Drug Administration warnings on hepatitis B reactivation with immune-suppressing and anticancer drugs: just the tip of the iceberg

Recommendations issued by the Spanish Society of Pediatric Infectious Diseases for the follow-up of the child exposed to the human immunodeficiency virus and to antiretroviral drugs during pregnancy and the neonatal period

Reconstitution of cyclophosphamide-induced, impaired function of the immune system in animal models

Recovery from 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone-induced immunosuppression in A/J mice by treatment with nonsteroidal anti-inflammatory drugs

Recovery of dimethylnitrosamine-induced immunosuppression by pargyline in the mixed cultures of murine hepatocytes and splenocytes

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Reduced birth defects caused by maternal immune stimulation in methylnitrosourea-exposed mice: association with placental improvement

Reduced expression of selective immune-related genes in silver catfish (Rhamdia quelen) monocytes exposed to atrazine

Reduction in peripheral lymphocytes and thymus atrophy induced by organotin compounds in vivo

Reduction in valproic acid-induced neural tube defects by maternal immune stimulation: role of apoptosis

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Release of Danger-Associated Molecular Patterns following Chemotherapy Does Not Induce Immunoparalysis in Leukemia Patients

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Repeated ozone exposure exacerbates insulin resistance and activates innate immune response in genetically susceptible mice

Repeated-oral dose toxicity of polyethylene microplastics and the possible implications on reproduction and development of the next generation

Reply to the commentary by Onuigbo on the article "Exposure to inhibitors of the renin-angiotensin system is a major independent risk factor for acute renal failure induced by sucrose-containing intravenous immunoglobulins. A case-control study

Report of validation study of assessment of direct immunotoxicity in the rat. The ICICIS Group Investigators. International Collaborative Immunotoxicity Study

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Resistance of C57BI/6 mice to immunosuppressive effects of aflatoxin B1 and relationship with neuroendocrine mechanisms

Resistance to acute silicosis in senescent rats: role of alveolar macrophages

Resistance to erythropoietin: immunohemolytic anemia induced by residual formaldehyde in dialyzers

Resistance to intestinal parasites during murine AIDS: role of alcohol and nutrition in immune dysfunction

Resolution of ipilimumab induced severe hepatotoxicity with triple immunosuppressants therapy

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Respiratory toxicity and immunotoxicity evaluations of microparticle and nanoparticle C60 fullerene aggregates in mice and rats following nose-only inhalation for 13 weeks

Restoration of cyclophosphamide-suppressed primary immune response in mice by Tolpa Peat Preparation (TPP)--comparison with calf thymus extract Restorative effect of I-Dopa treatment against Ochratoxin A induced neurotoxicity

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Resveratrol (3,5,4'-trihydroxystilbene) protects pregnant mother and fetus from the immunotoxic effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin

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RETRACTED: Composition and immunotoxicity activity of major essential oils from stems of Allium victorialis L. var. platyphyllum Makino against Aedes aegypti L

RETRACTED: Immunotoxicity activity from various organic solvents extract of Allium genus from South Korea against Aedes aegypti L

RETRACTED: Major essential oils composition and immunotoxicity activity from leaves of Foeniculum vulgare against Aedes aegypti L

Retrospective evaluation of the impact of functional immunotoxicity testing on pesticide hazard identification and risk assessment

Reversibility of alcohol-induced immune depression

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Rifabutin-induced uveitis in an immunocompetent subject

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Rifampicin-induced suppression of antitumor immunity

RIP1 and RIP3 contribute to Tributyltin-induced toxicity invitro and invivo

Risk assessment and immunotoxicology

Risk assessment for possible effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and related substances on components and functions of the immune system

Risk assessment for the harmful effects of immunotoxic agents on the immunological resistance to infectious diseases: ultraviolet light as an example

Risk assessment for the harmful effects of UVB radiation on the immunological resistance to infectious diseases

Risk factors for immunologically mediated disease in workers with respiratory symptoms when exposed to hexahydrophthalic anhydride

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Size-dependent effect of zinc oxide on toxicity and inflammatory potential of human monocytes

Sizing Up the Competition: Fc-Mediated Effector Functions of Immune Therapeutics Impaired During Chronic Viral Infection

SK&F 95654-induced acute cardiovascular toxicity in Sprague-Dawley rats--histopathologic, electron microscopic, and immunohistochemical studies

Skin cancer development in mice exposed chronically to immunosuppressive agents

Skin Exposure to Ultraviolet B Rapidly Activates Systemic Neuroendocrine and Immunosuppressive Responses

Skin toxicity of jet fuels: ultrastructural studies and the effects of substance P

Slow release cortisol implants result in impaired innate immune responses and higher infection prevalence following experimental challenge with infectious pancreatic necrosis virus in Atlantic salmon (Salmo salar) parr

Smoking habit, immune suppression, oral contraceptive use, and hormone replacement therapy use and cervical carcinogenesis: a review of the literature

Smoking Impairs the Immunomodulatory Capacity of Lung-Resident Mesenchymal Stem Cells in Chronic Obstructive Pulmonary Disease

Smoking-Induced Changes in the Maternal Immune, Endocrine, and Metabolic Pathways and Their Impact on Fetal Growth: A Topical Review

Social isolation during old age worsens cognitive, behavioral and immune impairment

Social stress in male mice impairs long-term antiviral immunity selectively in wounded subjects

Sodium fluoride exposure triggered the formation of neutrophil extracellular traps

Sodium fluoride impairs splenic innate immunity via inactivation of TLR2/MyD88 signaling pathway in mice

Sodium methyldithiocarbamate inhibits MAP kinase activation through toll-like receptor 4, alters cytokine production by mouse peritoneal macrophages, and suppresses innate immunity

Soman intoxication-induced changes in serum acute phase protein levels, corticosterone concentration and immunosuppressive potency of the serum

Somatic and autonomic small fiber neuropathy induced by bortezomib therapy: an immunofluorescence study

Some biochemical and immunological disorders caused by chronic exposure to nitrogen oxides

Some toxicological aspects of polycyclic aromatic hydrocarbons (PAHs) effects

Sources, distribution, and toxicity of polycyclic aromatic hydrocarbons

Species specificity of 2-aryl carbapenem-induced immune-mediated hemolytic anemia in primates

Specific and long-lasting protection from collagen-induced arthritis and oil-induced arthritis in DA rats by administration of immunogens

Specific immune responses in mice following subchronic exposure to acetamiprid

Specific non-coplanar PCB-mediated modulation of bottlenose dolphin and beluga whale phagocytosis upon in vitro exposure

Splenic immunotoxicity in developing cane toads (Rhinella marina) from Bermuda

Spuriously low IgG levels in lupus-associated mixed cryoglobulinaemia type II complicated by iatrogenic immunoglobulin-induced immune complex vasculitis

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Stability evaluation of reference genes for real-time PCR in zebrafish (Danio rerio) exposed to cadmium chloride and subsequently infected by bacteria Aeromonas hydrophila

Standard radiotherapy but not chemotherapy impairs systemic immunity in non-small cell lung cancer

Stannous chloride induces alterations in enzyme activities, lipid peroxidation and histopathology in male rabbit: antioxidant role of vitamin C

Staphylococcal Enterotoxin B (SEB) Induces Memory CD4 T Cell Anergy in vivo and Impairs Recall Immunity to Unrelated Antigens

Staphylococcus aureus proteases degrade lung surfactant protein A potentially impairing innate immunity of the lung

Statin-induced anti-HMGCR antibody-related immune-mediated necrotising myositis achieving complete remission with rituximab

Statin-triggered immune-mediated necrotizing myopathy

Steering carbon nanotubes to scavenger receptor recognition by nanotube surface chemistry modification partially alleviates NFkappaB activation and reduces its immunotoxicity

Stem Cell Transfusion Restores Immune Function in Radiation-Induced Lymphopenic C57BL/6 Mice

Stereoselective induction of developmental toxicity and immunotoxicity by acetochlor in the early life stage of zebrafish

Steroid-exacerbated HIV-associated cutaneous Kaposi's sarcoma immune reconstitution inflammatory syndrome: 'Where a good intention turns bad

Steroid-Free Immune Suppression Impairs Glycemic Control in a Healthy Cynomolgus Monkey

Steroid-free immunosuppression after kidney transplantation with antithymocyte globulin induction and cyclosporine and mycophenolate mofetil maintenance therapy

Strain differences of cadmium-induced toxicity in rats: Insight from spleen and lung immune responses

Strain specific induction of pyometra and differences in immune responsiveness in mice exposed to 17alpha-ethinyl estradiol or the endocrine disrupting chemical bisphenol A

Strategy for selecting nanotechnology carriers to overcome immunological and hematological toxicities challenging clinical translation of nucleic acid-based therapeutics

Streptococcus pneumoniae disrupts pulmonary immune defence via elastase release following pneumolysin-dependent neutrophil lysis

Stress and demographic decline: a potential effect mediated by impairment of reproduction and immune function in cyclic vole populations

Stress and immune response. On appropriate stress management for prevention and treatment of diseases

Stress and immune responses of nestling tree swallows (Tachycineta bicolor) and eastern bluebirds (Sialia sialis) exposed to nonpersistent pesticides and p,p'-dichlorodiphenyldichloroethylene in apple orchards of southern Ontario, Canada

Stress and immunity in humans: a meta-analytic review

Stress impairs the efficacy of immune stimulation by CpG-C: Potential neuroendocrine mediating mechanisms and significance to tumor metastasis and the perioperative period

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Stress response, biotransformation effort, and immunotoxicity in captive birds exposed to inhaled benzene, toluene, nitrogen dioxide, and sulfur dioxide

Stress, age, and immune function: toward a lifespan approach

Stressful life events are associated with low secretion rates of immunoglobulin A in saliva in the middle aged and elderly

Stressful life events of dental students and salivary immunoglobulin A

Striatal but not frontal cortical up-regulation of the epidermal growth factor receptor in rats exposed to immune activation in utero and cannabinoid treatment in adolescence

Stronger association of drug-induced progressive multifocal leukoencephalopathy (PML) with biological immunomodulating agents

Structural and immunohistochemical changes of conjunctiva induced by topical glaucoma medication

Structural equation modeling of immunotoxicity associated with exposure to perfluorinated alkylates

Structural skeletal impairment induced by immunosuppressive therapy in rats: cyclosporine A vs tacrolimus

Structure-activity relationship of phenolic compounds (phenol, pyrocatechol and hydroquinone) on natural lymphocytotoxicity of carp (Cyprinus carpio

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Studies on cell-mediated immunotoxicity of dimethylformamide

Study of biomaterial-induced macrophage activation, cell-mediated immune response and molecular oxidative damage in patients with dermal bioimplants

Study of immune reactivity of minocycline-induced chronic active hepatitis

Study of immunoglobulins, proinflammatory cytokines, lymphoproliferation and phagocytosis in peripheral blood of healthy young people exposed to different levels of atmospheric pollution

Study of immunological suppression induced by combined use of cyclophosphamide and immunopotentiator, with special reference to its adverse effects

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Study of tyrosine hydroxylase immunoreactive neurons in neonate rats lactationally exposed to 2,4dichlorophenoxyacetic Acid

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Study on mouse pulmonary acute injury induced by air-borne PM2.5

Study on reproductive and immune toxicity of male rats exposed to As2O3

Study on the effect of Part III from Cynomorium songaricum on immunosuppressive mice induced by cyclophosphamide

Study on the immunotoxicity of ribosome inhibiting protein of Momordica charantia

Study on the impact of lead acetate pollutant on immunotoxicity produced by thiamethoxam pesticide

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Subacute oral exposure to dibromoacetic acid induced immunotoxicity and apoptosis in the spleen and thymus of the mice

Subchronic 10 day immunotoxicity of polydimethylsiloxane (silicone) fluid, gel and elastomer and polyurethane disks in female B6C3F1 mice

Subchronic administration of technical pentachlorophenol to lactating dairy cattle: immunotoxicologic evaluation

Subchronic arsenism-induced oxidative stress and inflammation contribute to apoptosis through mitochondrial and death receptor dependent pathways in chicken immune organs

Sub-chronic effect of perfluorooctanesulfonate (PFOS) on the balance of type 1 and type 2 cytokine in adult C57BL6 mice

Subchronic effects of perfluorooctanesulfonate exposure on inflammation in adult male C57BL/6 mice

Subchronic exposures to fungal bioaerosols promotes allergic pulmonary inflammation in naive mice

Subchronic immunotoxicity and screening of reproductive toxicity and developmental immunotoxicity following single instillation of HIPCO-single-walled carbon nanotubes: purity-based comparison

Subchronic inhalation toxicity of isobutyl nitrite in BALB/c mice. II. Immunotoxicity studies

Subchronic inhalation toxicity of the chlorinated propane 1,1,1,3,3,3-hexachloropropane (HCC-230fa

Subchronic lead exposure, immunotoxicology and increased disease resistance in Japanese quail (Corturnix coturnix japonica

Subchronic Oral Cadmium Exposure Exerts both Stimulatory and Suppressive Effects on Pulmonary Inflammation/Immune Reactivity in Rats

Subchronic oral toxicity study of furan in Fischer-344 rats

Subchronic toxicity and immunotoxicity of MeO-PEG-poly(D,L-lactic-co-glycolic acid)-PEG-OMe triblock copolymer nanoparticles delivered intravenously into rats

Sub-chronic toxicity of low concentrations of industrial volatile organic pollutants in vitro

Subchronic treatment with mercuric chloride suppresses immune response, elicits behavioral deficits and increases brain serotonin and dopamine metabolism in rats

Subchronic, reproductive, and maternal toxicity studies with tertiary butyl acetate (TBAC

Subclinical doses of T-2 toxin impair acquired immune response and liver cytochrome P450 in pigs

Subclinical GvHD in non-irradiated F1 hybrids: severe lymphoid-tissue GvHD causing prolonged immune dysfunction

Subclinical Reactivation of Cytomegalovirus Drives CD4+CD28null T-Cell Expansion and Impaired Immune Response to Pneumococcal Vaccination in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis

Sublethal hyperoxia impairs pulmonary innate immunity

Sublingual immunotherapy in children with grass pollen induced allergic rhinoconjunctivitis

Substance P as prophylaxis for JP-8 jet fuel-induced immunotoxicity

Successful combined treatment with rituximab and high dose immunoglobulin in a patient with chronic lymphocytic leukemia with fludarabine-induced severe immune thrombocytopenia

Successful intravenous human immunoglobulin treatment of drug-induced Stevens-Johnson syndrome in a dog

Successful Management by Immunoglobulin for Sunitinib-Induced Thrombocytopenia in a Patient with Advanced Metastatic Renal Cell Carcinoma

Successful management with intravenous immunoglobulins in alemtuzumab-induced acute inflammatory demyelinating neuropathy: clinical report of three patients

Successful treatment by voliconazole for pulmonary and adductor magnus muscle aspergillosis induced by immunosuppressive therapy for hypersensitivity pneumonia

Successful treatment of lymphoma with fludarabine combined with rituximab after immune thrombocytopenia induced by fludarabine

Successful treatment of recalcitrant penicillamine-induced pemphigus foliaceus by low-dose intravenous immunoglobulins

Successful Treatment of Severe Heparin-induced Thrombocytopenia with Intravenous Immunoglobulin, Platelet Transfusion and Rivaroxaban: A Case Report

Successfully treated sulphasalazine-induced fulminant hepatic failure, thrombocytopenia and erythroid hypoplasia with intravenous immunoglobulin

Sudden collapse during haemodialysis due to immune-mediated heparin-induced thrombocytopaenia

Sulfamethoxazole-trimethoprim-induced pneumonitis in a patient with hemophilia B who was infected with the human immunodeficiency virus

Sulfasalazine induced immune thrombocytopenia in a patient with rheumatoid arthritis

Sulfasalazine-induced linear immunoglobulin A bullous dermatosis with DRESS

Sulindac-induced immune hemolytic anemia

Sulphonylurea usage in melioidosis is associated with severe disease and suppressed immune response

Sunlight-induced immunosuppression in humans is initially because of UVB, then UVA, followed by interactive effects

Sunscreen applied at 2 mg cm-2 during a sunny holiday prevents erythema, a biomarker of ultraviolet radiation-induced DNA damage and suppression of acquired immunity

Sunscreen lotions prevent ultraviolet radiation-induced suppression of antitumor immune responses

Sunset yellow FCF, a permitted food dye, alters functional responses of splenocytes at non-cytotoxic dose

Superoxide dismutase 3 controls adaptive immune responses and contributes to the inhibition of ovalbumin-induced allergic airway inflammation in mice

Supplementing an immunomodulatory feed ingredient to modulate thermoregulation, physiologic, and production responses in lactating dairy cows under heat stress conditions

Suppressed T helper 2 immunity and prolonged survival of a nematode parasite in protein-malnourished mice

Suppression by Delta(9)-tetrahydrocannabinol of the primary immunoglobulin M response by human peripheral blood B cells is associated with impaired STAT3 activation

Suppression of allergen-induced airway inflammation and immune response by the peroxisome proliferator-activated receptor-alpha agonist fenofibrate

Suppression of allergic immune responses to house dust mite (HDM) in rats exposed to 2,3,7,8-TCDD

Suppression of allograft immunity by 3,4,5,3',4',5'-hexachlorobiphenyl. I. Effects of exposure on tumor rejection and cytotoxic T cell activity in vivo

Suppression of allograft immunity by 3,4,5,3',4',5'-hexachlorobiphenyl. II. Effects of exposure on mixed lymphocyte reactivity and induction of suppressor cell activity in vitro

Suppression of B-cell mediated immunity in juvenile chinook salmon (Oncorhynchus tshawytscha) after exposure to either a polycyclic aromatic hydrocarbon or to polychlorinated biphenyls

Suppression of cell-mediated immune responses to listeria infection by repeated exposure to diesel exhaust particles in brown Norway rats

Suppression of cell-mediated immunity by a donor-transmitted lymphocytic choriomeningitis virus in a kidney transplant recipient

Suppression of cell-mediated immunity following oral feeding of mice with palmyrah (Borassus flabellifer L) flour

Suppression of cellular immune responses in BALB/c mice following oral exposure to permethrin

Suppression of cellular immunity by anesthesia and operation

Suppression of cellular immunity in men with a past history of posttraumatic stress disorder

Suppression of corneal graft rejection in rabbits by a new immunosuppressive agent, FK-506

Suppression of cyclosporine a nephrotoxicity in vivo by transforming growth factor beta receptorimmunoglobulin G chimeric protein

Suppression of human B cell activation by 2,3,7,8-tetrachlorodibenzo-p-dioxin involves altered regulation of B cell lymphoma-6

Suppression of humoral and cell-mediated immune responses by carbon tetrachloride

Suppression of humoral and cell-mediated immune responses in vitro by benzo(a)pyrene

Suppression of humoral immune responses by 2,3,7,8-tetrachlorodibenzo-p-dioxin intercalated in smectite clay

Suppression of humoral immune responses by dialkylnitrosamines: structure-activity relationships

Suppression of humoral immunity by perfluorooctanoic acid is independent of elevated serum corticosterone concentration in mice

Suppression of humoral immunity following exposure to the perfluorinated insecticide sulfluramid

Suppression of humoral immunity in mice following exposure to perfluorooctane sulfonate

Suppression of immune parameters in animal models of morphine dependence

Suppression of immune response associated with functions of B-cells, Th1- and Th2-lymphocytes and interleukins produced by these cells, and pharmacological correction of these disturbances upon acute intoxication with methanol

Suppression of immune response in the B6C3F1 mouse after dietary exposure to the Fusarium mycotoxins deoxynivalenol (vomitoxin) and zearalenone

Suppression of immunoglobulin production by a novel dihydroorotate dehydrogenase inhibitor, S-2678

Suppression of local gut-associated and splenic mitogen responsiveness of lymphoid cells following oral exposure of B6C3F1 mice to 7,12-dimethylbenz[a]anthracene

Suppression of natural killer cells after acute intoxication with alcohols and cholinotropic preparations and their reactivation with T-activin

Suppression of retrovirus-induced immunodeficiency disease (murine AIDS) by trimidox and didox: novel ribonucleotide reductase inhibitors with less bone marrow toxicity than hydroxyurea

Suppression of splenic lymphocyte function by 7,12-dimethylbenz[a]anthracene (DMBA) in vitro

Suppression of Th1- and Th2-type immune responses in infant mouse spleen after prenatal and postnatal exposure to low-level toluene and peptidoglycan

Suppression of the IgM Response by Aryl Hydrocarbon Receptor Activation in Human Primary B Cells Involves Impairment of Immunoglobulin Secretory Processes

Suppression of the immune system by oral glucocorticoid therapy in bronchial asthma

Suppression of the in vitro humoral immune response by chrysotile asbestos

Suppression of the in vitro humoral immune response of mouse splenocytes by 7,12dimethylbenz[a]anthracene metabolites and inhibition of immunosuppression by alpha-naphthoflavone

Suppression of the in vitro immune response by 7,12-dimethylbenz[a]anthracene in mouse splenocytes co-cultured with rat hepatocytes

Suppression of the NF-kappaB pathway by diesel exhaust particles impairs human antimycobacterial immunity

Suppressive Effect of 1alpha,25-Dihydroxyvitamin D3 on Th17-Immune Responses in Kidney Transplant Recipients With Tacrolimus-Based Immunosuppression

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Suppressive effect of ultraviolet B radiation on contact sensitization in mice. II. Systemic immunosuppression is modulated by ultraviolet irradiation and hapten application

Suppressive effects of benzo[a]pyrene upon fish immune function: evolutionarily conserved cellular mechanisms of immunotoxicity

Suppressive effects of thiopental and halothane on specific arms of the immune response

Suppressor T-cell levels are unreliable indicators of the impaired immune response following thermal injury

Surface charges and shell crosslinks each play significant roles in mediating degradation, biofouling, cytotoxicity and immunotoxicity for polyphosphoester-based nanoparticles

Surface coatings determine cytotoxicity and irritation potential of quantum dot nanoparticles in epidermal keratinocytes

Surface expression of the hRSV nucleoprotein impairs immunological synapse formation with T cells

Surface functionalized mesoporous silica nanoparticles with natural proteins for reduced immunotoxicity

Surgery-induced immunomodulation in breast cancer

Surgery-induced immunosuppression and postoperative pain management

Surgical damage to the lymphatic system promotes tumor growth via impaired adaptive immune response

Susceptibility to secondary bacterial infections in growing pigs as an early response in ochratoxicosis

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Syndrome of cocaine-levamisole-induced cutaneous vasculitis and immune-mediated leukopenia

Synergism in immunotoxicological effects due to repeated combined administration of arsenic and lead in mice

Synergistic effect of organic solvents and tobacco smoke on serum immunoglobulin levels in humans

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Synthesis of zanthoxylamide protoalkaloids and their in silico ADME-Tox screening and in vivo toxicity assessment in zebrafish embryos

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Synthetic predator cues impair immune function and make the biological pesticide Bti more lethal for vector mosquitoes

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Systemic immunosuppression following a single pharyngeal aspiration of 1,2:5,6-dibenzanthracene in female B6C3F1 mice

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T-2 toxin impairs murine immune response to respiratory reovirus and exacerbates viral bronchiolitis

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Validation of immunotoxicology techniques in passerine chicks exposed to Oil Sands tailings water

Validation of the Candida albicans delayed-type hypersensitivity (DTH) model in the female BCF mouse for use in immunotoxicological investigations

Value of antibody level in diagnosing anhydride-induced immunologic respiratory disease

Value of phagocyte function screening for immunotoxicity of nanoparticles in vivo

Vanadium (V)-induced neurotoxicity in the rat central nervous system: a histo-immunohistochemical study

Vanadium and tungsten derivatives as antidiabetic agents: a review of their toxic effects

Vanadium carcinogenic, immunotoxic and neurotoxic effects: a review of in vitro studies

Vanadium pentoxide inhalation provokes germinal center hyperplasia and suppressed humoral immune responses

Vanadium toxicity in the thymic development

Vancomycin-induced Immune Thrombocytopenia Proven by the Detection of Vancomycin-dependent Anti-platelet Antibody with Flow Cytometry

Varicella exposure in a child at risk of being immunosuppressed

Varicella zoster reactivation after hematopoietic stem cell transplant in children is strongly correlated with leukemia treatment and suppression of host T-lymphocyte immunity

Varied immuno-related adverse events induced by immune-check point inhibitors - Nivolumabassociated psoriasiform dermatitis related with increased serum level of interleukin-6

Venom components of Asobara japonica impair cellular immune responses of host Drosophila melanogaster

Venom of parasitoid, Pteromalus puparum, suppresses host, Pieris rapae, immune promotion by decreasing host C-type lectin gene expression

Vigabatrin-induced modification of Ki-67 expression in gingival epithelium: immunohistochemical study of a short series

Vitamin A deficiency impairs the immune response to intranasal vaccination and RSV infection in neonatal calves

Vitamin A deficiency impairs vaccine-elicited gastrointestinal immunity

Vitamin C Modulates the Immunotoxic Effect of 17alpha-Methyltestosterone in Nile Tilapia

Vitamin E pretreatment prevents the immunotoxicity of dithiocarbamate pesticide mancozeb in vitro: A comparative age-related assessment in mice and chick

Vomitoxin-induced cyclooxygenase-2 gene expression in macrophages mediated by activation of ERK and p38 but not JNK mitogen-activated protein kinases

Vulnerability, distress, and immune response to vaccination in older adults

Walnut Polyphenol Extract Attenuates Immunotoxicity Induced by 4-Pentylphenol and 3-methyl-4nitrophenol in Murine Splenic Lymphocyte

Walnut Polyphenol Extract Protects against Fenitrothion-Induced Immunotoxicity in Murine Splenic Lymphocytes

Walnut Polyphenol Extract Protects against Malathion- and Chlorpyrifos-Induced Immunotoxicity by Modulating TLRx-NOX-ROS

Water Contaminants Associated With Unconventional Oil and Gas Extraction Cause Immunotoxicity to Amphibian Tadpoles

Waterborne microcystin-LR exposure induced chronic inflammatory response via MyD88-dependent toll-like receptor signaling pathway in male zebrafish

Water-soluble polysaccharides from Grifola Frondosa fruiting bodies protect against immunosuppression in cyclophosphamide-induced mice via JAK2/STAT3/SOCS signal transduction pathways

Wavelength dependency for UVA-induced suppression of recall immunity in humans

Well-being and immune response: a multi-system perspective

Western-style diets induce oxidative stress and dysregulate immune responses in the colon in a mouse model of sporadic colon cancer

What is the main source of human exposure to higher alcohols and is there a link to immunotoxicity

Whole blood TNF-alpha production as a sensitive measure for immunotoxicity of anticancer drugs

Whole-body inhalation exposure to 1-bromopropane suppresses the IgM response to sheep red blood cells in female B6C3F1 mice and Fisher 344/N rats

Wild Panax ginseng (Panax ginseng C.A. Meyer) protects against methotrexate-induced cell regression by enhancing the immune response in RAW 264.7 macrophages

Wogonin prevents immunosuppressive action but not anti-inflammatory effect induced by glucocorticoid

Work stress and innate immune response

Workshop on perinatal exposure to dioxin-like compounds. V. Immunologic effects

Yulangsan polysaccharide improves redox homeostasis and immune impairment in D-galactose-induced mimetic aging

Yupingfeng Powder relieves the immune suppression induced by dexamethasone in mice

Zearalenone induces immunotoxicity in mice: possible protective effects of radish extract (Raphanus sativus

Zearalenone inhibits T cell chemotaxis by inhibiting cell adhesion and migration related proteins

Zearalenone, an estrogenic mycotoxin, is an immunotoxic compound

Zebrafish: A complete animal model to enumerate the nanoparticle toxicity

Zidovudine as an immunomodulatory agent

Zidovudine impairs immunological recovery on first-line antiretroviral therapy: collaborative analysis of cohort studies in southern Africa

Zidovudine-induced fatal lactic acidosis and hepatic failure in patients with acquired immunodeficiency syndrome: report of two patients and review of the literature

Zinc- and tin-induced apoptotic mechanisms in immune system and cranial nerve system

Zinc deficiency impairs immune responses against parasitic nematode infections at intestinal and systemic sites

Zinc oxide nanoparticle induced age dependent immunotoxicity in BALB/c mice

Zinc protects HepG2 cells against the oxidative damage and DNA damage induced by ochratoxin A

Ziram induces apoptosis and necrosis in human immune cells

ZnO nanoparticles induced inflammatory response and genotoxicity in human blood cells: A mechanistic approach

A4-C. Bibliography – Low-Tech Factors that Strengthen Immune System

In the main text, two types of strategic treatments for a weakened immune system were defined: vaccine-based and non-vaccine-based. The vaccine-based treatments were addressed in Appendix 3. The non-vaccine-based treatments were divided into two categories: identifying and eliminating factors that contribute to weakening the immune system, and adding factors that contribute to strengthing a weak immune system. Many factors of the first category were presented in Table A4-1. In the present section, some factors of the second category (especially low-tech factors that strengthen the immune system) will be presented in the form of a brief bibliography. Many more factors of this nature exist, and could be identified with a much larger study. The bibliography follows.

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