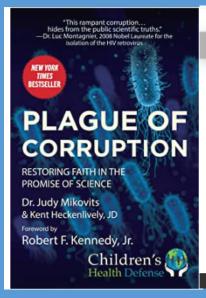
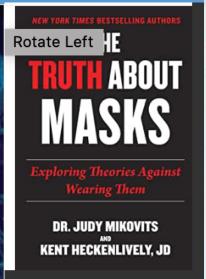
GOD's People are destroyed from lack of Knowledge (Hosea 4:6)

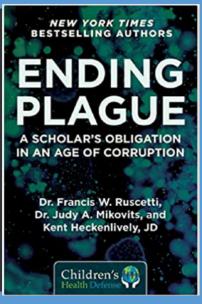
THE FEAR OF THE LORD is the Beginning of Knowledge but Fools Despise Wisdom & Instruction (PROVERBS 1:7)













2014 (James 1:19-22) 2017

2020 (Psalm 91)

2020 2(Cor 3:18) 2021(Ephesians 5:11) 2021(2 Chronicles 7:14)

DrJudy@TheRealDrJudy.com www.Plaguethebook.com Shop.therealdrjudy.com TeamDrjudy@proton.me

'The great enemy of truth is very often not the lie – deliberate, contrived and dishonest – but the myth – persistent, persuasive and unrealistic. Too often we hold fast to the cliches of our forebears. We subject all facts to a prefabricated set of interpretations. We enjoy the comfort of opinion without the discomfort of thought'. John F. Kennedy, Commencement Address, Yale University, June 11, 1962

If my people, who are called by my name, will humble themselves, pray & seek my face & turn from their wicked ways, then I hear from heaven, and I will forgive their Sin and will heal their land (2 Chronicles 7:14)

AIDS RESEARCH AND HUMAN RETROVIRUSES Volume 36, Number 7, 2020 Mary Ann Liebert, Inc. COMMENTARY

Fake Science: XMRV, COVID-19, and the Toxic Legacy of Dr. Judy Mikovits

Stuart J.D. Neil¹ and Edward M. Campbell²

Abstract

One cannot spend >5 min on social media at the moment without I regarding the origin of SARS-CoV2, the coronavirus responsible being deliberately released as a bioweapon to pharmaceutical comboost their dangerous drugs and vaccines, the Internet is rife with the first immunization trials have started, the antivaccine lobby he trailer for a new "bombshell documentary" Plandemic has be repeatedly removed from YouTube and Facebook. We usually wretrovirologists like us, the name associated with these claims is

SCIENCEINSIDER HEALTH

Fact-checking Judy Mikovits, the controversial virologist attacking Anthony Fauci in a viral conspiracy video

In Plandemic, the former chronic fatigue syndrome researcher makes countless unsubstantiated claims and accusations

FEAR IS THE VIRUS. TRUTH IS THE CURE. EDITED AND COAUTHORED BY

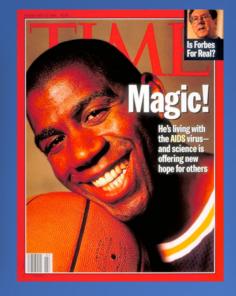
8 MAY 2020 · BY MARTIN ENSERINK, JON COHEN

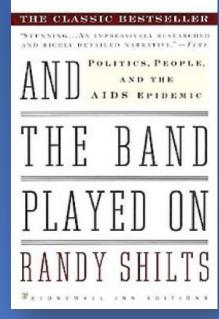
Vaccination is not Immunization, It's Extermination/Sterilization

HIV/AIDS Driven By HBV Vaccine & AZT In Asymptomatic Carriers

LAV Isolation in GRID-1982









AIDS. 2016 Sep 24;30(15):2289-98. doi: 10.1097/QAD.00000000001201.

Standard vaccines increase HIV-1 transcription during antiretroviral therapy.

Yek C1, Gianella S, Plana M, Castro P, Scheffler K, García F, Massanella M, Smith DM.

Author information

Abstract

OBJECTIVES: Curative strategies using agents to perturb the HIV reservoir have demonstrated only modest activity, whereas increases in viremia after standard vaccination have been described. We investigated whether vaccination against non-HIV pathogens can induce HIV transcription and thereby play a role in future eradication strategies.

HIV First Fauci GOF 1984 HIV/LAV EM Antibodies DIFFERENT

HIV DID NOT EXIST IN NATURE

November 7,1991 MAGIC TESTS POSITIVE FOR HIV ANTIBODIES November 14, 1991 MIKOVITS THESIS: HIV Latency in Monocyte

HIV COULD NOT CAUSE AIDS IF INNATE IMMUNITY Healthy

THE PUBLICATION DANCE SUMMER OF 2009

Workshop, July 22, 2009 - Public Health Implications of XMRVCenter for Cancer Research (CCR) Center of Excellence in HIV/AIDS & Cancer Virology (CEHCV)

Introduction – In 2006, the human retrovirus XMRV (xenotropic murine leukemia virusrelated virus) was identified and reported to be associated with certain cases of prostate
cancer. Although the public health implications of this finding were not immediately clear,
a series of presentations at the most recent Cold Spring Harbor Laboratory meeting on
Retroviruses provided additional support for this linkage and suggested that the number
of individuals infected with XMRV is significant enough to be a cause for public concern.
In view of these developments, it was deemed appropriate for NCI to convene a small
group of intramural and extramural scientists and clinicians with expertise in this area to
provide the NCI leadership with recommendations on future directions. The following
summarizes the scientific presentations and resulting round-table discussion among
workshop participants.

Organizers

Stuart Le Grice, Ph.D. CEHCV

John Coffin, Ph.D.

CCR

Participants

Carlos Cordon-Cardo, M.D., Ph.D. Stephen Goff, Ph.D. Eric Klein, M.D. Robert Silverman, Ph.D. A. Dusty Miller, Ph.D. Ila Singh, M.D., Ph.D. Judy Mikovits, Ph.D.

Nevada

Stephen Hughes, Ph.D. Vineet KewalRamani, Ph.D.

Douglas Lowy, M.D. John Schiller, Ph.D. Chris Buck, Ph.D.

William Dahut, M.D. James Gulley, M.D., Ph.D.

Biology, NCI

Jeffrey Schlom, Ph.D.

Biology, NCI

W. Marston Linehan, M.D. Charles Rabkin, M.D. Genetics, NCI Columbia University Columbia University

Cleveland Clinic Cleveland Clinic

Fred Hutchinson Cancer Research Center

HIV Drug Resistance Program & Head,

Tufts University & Office of the Director,

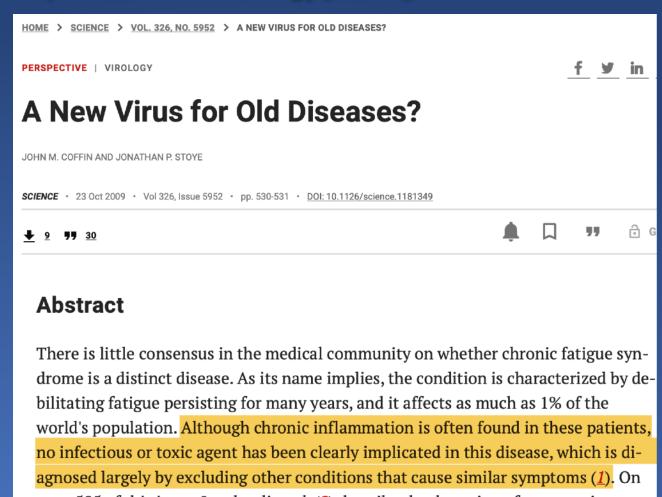
University of Utah

Whittemore Peterson Institute, University of

HIV Drug Resistance Program, NCI HIV Drug Resistance Program, NCI Laboratory of Cellular Oncology, NCI Laboratory of Cellular Oncology, NCI Laboratory of Cellular Oncology, NCI Medical Oncology Branch, NCI Laboratory of Tumor Immunology and

Laboratory of Tumor Immunology and

Urologic Oncology Branch, NCI Division of Cancer Epidemiology &



How many New/recombinant Viruses were created by FAUCI NIAID

DANGERS OF USE OF ANIMAL RNA, DNA PROTEIN All Vaccines are GMO Manufactured viruses

Detection of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome

Vincent C. Lombardi, 1x Francis W. Ruscetti, 2x Jaydip Das Gupta, Max A. Pfost, 1 Kathryn S. Hagen, Daniel L. Peterson, Sandra K. Ruscetti, Rachel K. Bagni, Cari Petrow-Sadowski, Bert Gold, Michael Dean, Robert H. Silverman, Judy A. Mikovits +

www.sciencemag.org SCIENCE VOL 326 23 OCTOBER 2009

- XMRV RNA/DNA in 67% of CFS patients tested
- XMRV protein detected in >85% stimulated/dividing T and B cells
- Antibody to XMRV Env detected in >50% CFS patient plasma
- Infectious virus transmitted from >90% CFS patient plasma
- XMRV is a Blood Borne, Infectious Human Retrovirus

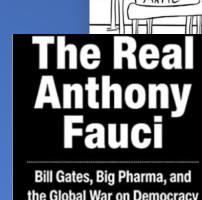
Evidence of XMRV infection in >98% of this cohort (Mikovits et al Virulence 1:5 1-5 October 2010)

Animal

- Bovine serum (several forms)
- Avian serum chicken
- Egg protein ovalbumin
- VERO cell Line monkey
- Dog kidney cell Line (MDCK)
- Insect cell line

Human cell Lines

- WI-38
- MRC-5
- PER.C6



000

"One of the most widely distributed biological

products that frequently involved mice or mouse

tissue, at least up until recent years, are vaccines,

especially vaccines against viruses . . ."

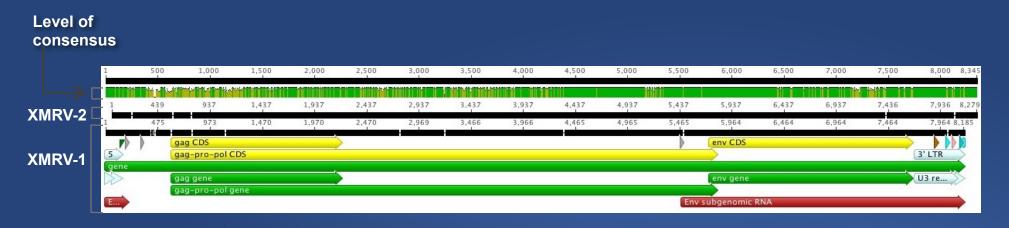
the Global War on Democracy and Public Health

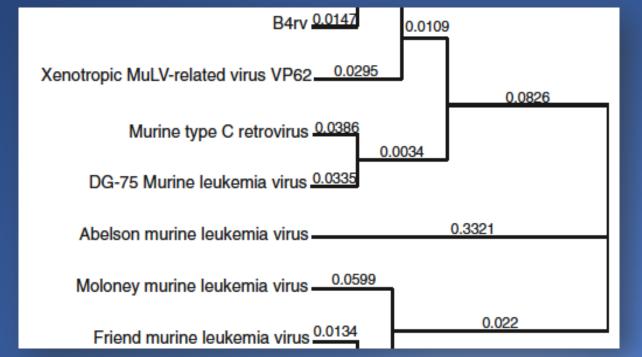
Robert F. Kennedy Jr.

Children's

HOW MANY NEW VIRUSES HAVE WE CREATED

Our results are confirmed and extended by the isolation and Characterization of "XMRV-2" XMRV-2 Cardiotropic Variant Described is this the Omicron Variant?





93% overall homology

Gary Owens lab November 10, 2009 Published 2013

INFECTIOUS VIRUS IS NOT NECESSARY TO *CAUSE* DISEASE WHEN IT IS INJECTED

Murgai et al. Retrovirology 2013, **10**:34 http://www.retrovirology.com/content/10/1/34



RESEARCH Open Access

Xenotropic MLV envelope proteins induce tumor cells to secrete factors that promote the formation of immature blood vessels

Meera Murgai¹, James Thomas², Olga Cherepanova¹, Krista Delviks-Frankenberry⁴, Paul Deeble³, Vinay K Pathak⁴, David Rekosh⁵ and Gary Owens^{1*}

ENV proteins from both viruses impact tumor pathogenesis (change microvasculature)

Similarities to Vascular Pathologies seen in ME/CFS& Vaccine injuries

Microvasculature aberrations caused solely by XMRV ENV protein

"Although it is highly unlikely that either XMRV VP62 or B4Rv themselves infect humans and are pathogenic, the results suggest that xenograft approaches commonly used in these studies of human cancer promote the evolution of novel retroviruses with pathogenic properties. Similar retroviruses may have evolved to infect humans!"

XMRVs are pivotal because associated diseases have overlapping pathways/ Mechanisms of pathogenesis

- Evidence of infection in families with diagnoses: ASD, CFS, HIV/AIDS Chronic Lyme disease, prostate cancer, psychosis and EVERY study found antibodies 4-6% in US "healthy controls".. that is 20 million Americans at risk of Developing Vaccine AIDS
- ANTIBODY Test identified XMRV ENV/Spike Syncytin pathology
 - Including infection of brain microglia
 - Infection and dysregulation of gut tight junctions
 - Vasculitis





Article

G Protein-Coupled Receptor 15 Expression Is Associated with Myocardial Infarction





Review

Lyme Neuroborreliosis: Mechanisms of *B. burgdorferi* **Infection of the Nervous System** and *GPR15* [129]. Of the genes identified,

Xenotropic/Polytropic MLV

Xenotropic/Polytropic MLV

Xenotropic/Polytropic MLV

XPR-1
(unknown function)

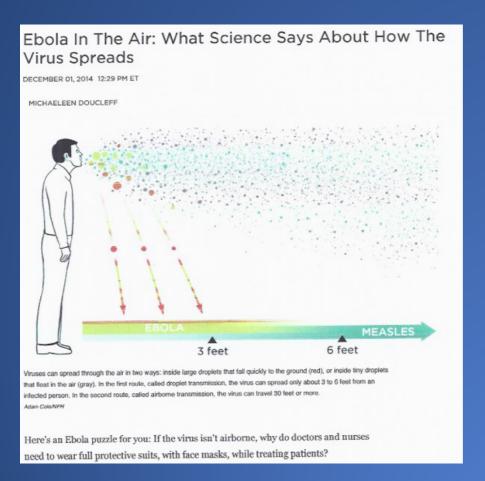
Like mouse xenotropic MuLV, XMRV uses the Xpr-1 receptor to enter cells (Dong et al., PNAS, 2007)

XMRV proviral integration occurs preferentially in CpG islands: gene promoters (Kim et al., JVirol, 2008)

Xenotropic Murine Leukemia Virus-Related Virus

and *GPR15* [129]. Of the genes identified, only *GPR15* is associated with an immune response [154]. GPR15 is a G-protein coupled receptor that acts as a chemokine receptor for human immunodeficiency virus (HIV) 1 and 2, and has been implicated in various lymphomas [154]. *CCDC163P* and *ZNF266* are involved in protein binding, with the latter

XMRVs: of MICE, Monkey & Manufactured Viruses generated Human Xenotransplantation: BIOWEAPONS Masquerading as Vaccines.

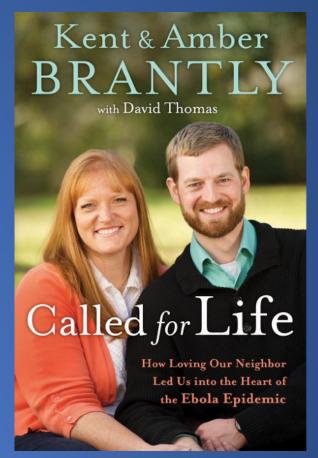


2014 Ebola Outbreak in Liberia : Zaire Strain By Way of BSL4 Facility Ft Detrick MD

Ft Detrick houses National Cancer Institute and USAMRIID

- Harold Varmus was NIH Director who implemented the xenotransplantation program in 1999. This included xenografts for cancer research, gene therapy. Varmus also started the NIH Vaccine Research Program.
- Many infectious diseases of animals can be transmitted to humans via routine exposure to or consumption of animals (e.g., rabies). Viruses that are not pathogenic in their natural host reservoirs may, in some cases, be highly pathogenic when transmitted to a new host species. Several zoonotic viruses have produced significant outbreaks when introduced into human hosts under normal circumstances of exposure (e.g., Ebola, Hanta Virus, Influenza).

2014 EBOLA Plandemic

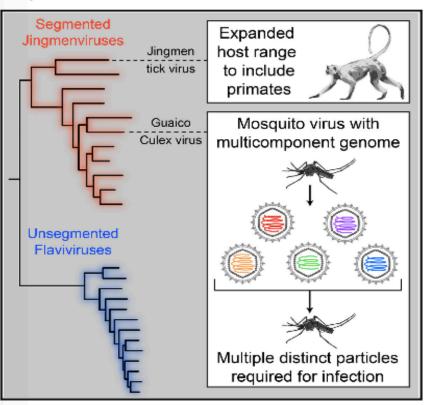


ZIKA: A Multicomponent Animal Virus Isolated from Mosquitoes

Ladner et al., 2016, Cell Host & Microbe 20, 357-367 September 14, 2016 © 2016 Elsevier Inc.

http://dx.doi.org/10.1016/j.chom.2016.07.011

Graphical Abstract



Authors

Jason T. Ladner, Michael R. Wiley, Brett Beitzel, ..., Laura D. Kramer, Robert B. Tesh, Gustavo Palacios

Correspondence

jason.t.ladner.ctr@mail.mil (J.T.L.), gustavo.f.palacios.ctr@mail.mil (G.P.)

In Brief

Multicomponent viruses, which separately package different genome segments, were thought to be restricted to plant and fungal hosts. Ladner et al. characterize a multicomponent mosquito virus and describe an evolutionarily related, segmented virus in a nonhuman primate. These findings provide evidence for multicomponent animal viruses and suggest relevance to animal health.



August 28, 2016

A Print This Post

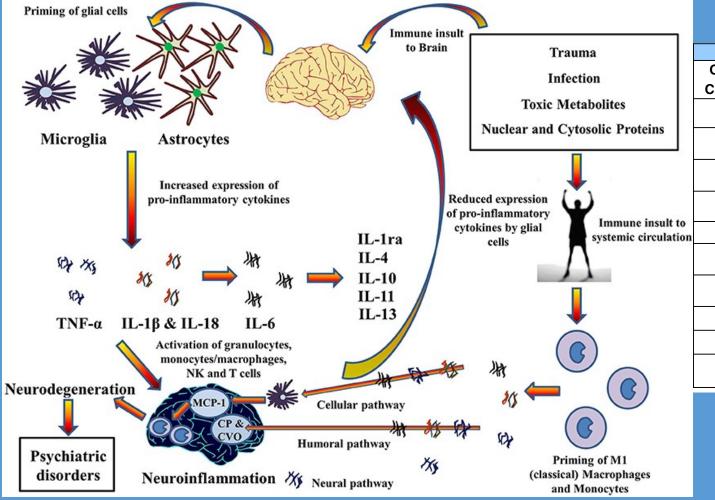
Zika: A Masterpiece of Public Mind Control

It's been nearly nine months since the word "Zika" flashed like a lightning bolt in the headlines of mainstream news. Before January 1, 2016, Zika was just one of many viruses that public health officials monitored. But suddenly in January of this year everything changed, as a nearly harmless virus was transformed into a worldwide threat.

Xenotropic Murine Leukemia Virus-related Virus-associated Chronic Fatigue Syndrome Reveals a Distinct Inflammatory Signature

in vivo 25: 307-314 (2011)

VINCENT C. LOMBARDI¹, KATHRYN S. HAGEN¹, KENNETH W. HUNTER⁴, JOHN W. DIAMOND^{2†}, JULIE SMITH-GAGEN³, WEI YANG³ and JUDY A. MIKOVITS¹



CYTOKINES/	Patient	Control	P value	FUNCTION IN INFLAMMATION
CYTOKINES/	Patient	Control	P value	FUNCTION IN INFLAMINATION
CHEMOKINES	N = 156	N=140		
IL-8	1067	11.1	<0.0001	RNase L and CMV activated
IL-13	28	86	<0.0001	Inhibits inflammatory cytokine production
MIP-1β	1840	157	<0.0001	Elevated in Neurodegenerative disease
TNF-α	109	12.8	<0.0001	Stimulates chronic inflammation
MCP-1	468	421	0.003	Elevated in chronic inflammatory diseases
IL-7	21.1	82	<0.0001	Stimulates proliferation of B and T lymphocytes and NK cells
IFN- α	35	60	<0.0001	Stimulates macrophages and NK cells to elicit an anti-viral response
IL-6	271	29	<0.0001	Stimulates chronic inflammation
MIP-1α	673	91	0.0062	Elevated in Neurodegenerative disease
GM-CSF	108	166	<0.0001	Stimulates proliferation of B and T
				lymphocytes and NK cells

1986theact.com NVICP Justice Denied: HBV vaccine at birth when DNA Methylation resets





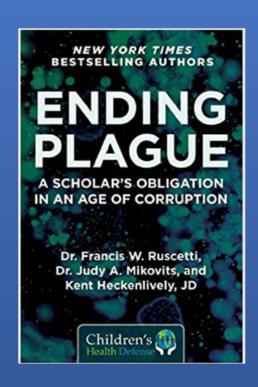




VACCINE AIDS = COVID19

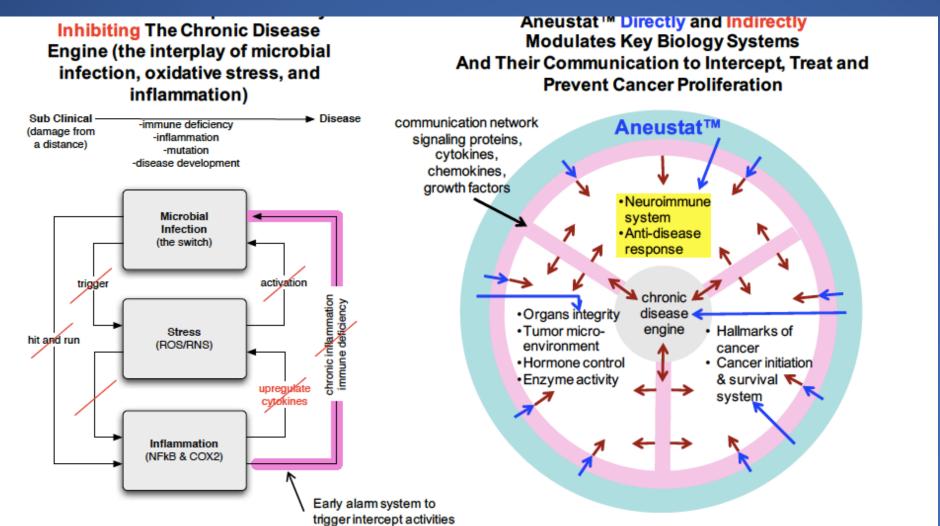
Autoimmune, Autoinflammatory Disease & Cancer *Unintended* Consequences of 3 DECADES LIABILITY FREE VACCINES

Prostate Cancer*	Crohn's Disease*	Gulf War Syndrome*
Breast Cancer *	Hashimoto's Thyroiditis*	Autism / ASD*
Multiple Myeloma*	Polymyositis*	Multiple Sclerosis*
Non-Hodgkins Lymphoma*	Sjogren's Syndrome *	Parkinson's*
Chronic Lymphocytic Leukemia*	Bechet's Disease*	ALS*
Mantle Cell Lymphoma*	Primary Biliary Cirrhosis*	Fibromyalgia*
Hairy Cell Leukemia*	Inflammatory Bowel Disease*	Chronic Lyme Disease*
Bladder Cancer *	Psoriasis, Dermatitis	OCD*
Colorectal Cancer*	Diabetes*	ADHD*
Kidney Cancer *	Cardiovascular Disease*	PTSD*
Ovarian Cancer*	ME / CFS*	Psychosis*
Neuroendocrine Tumor	SLupus/SLE	Rheumatoid Arthritis*



Experimentation without Informed Consent is Crimes Against Humanity

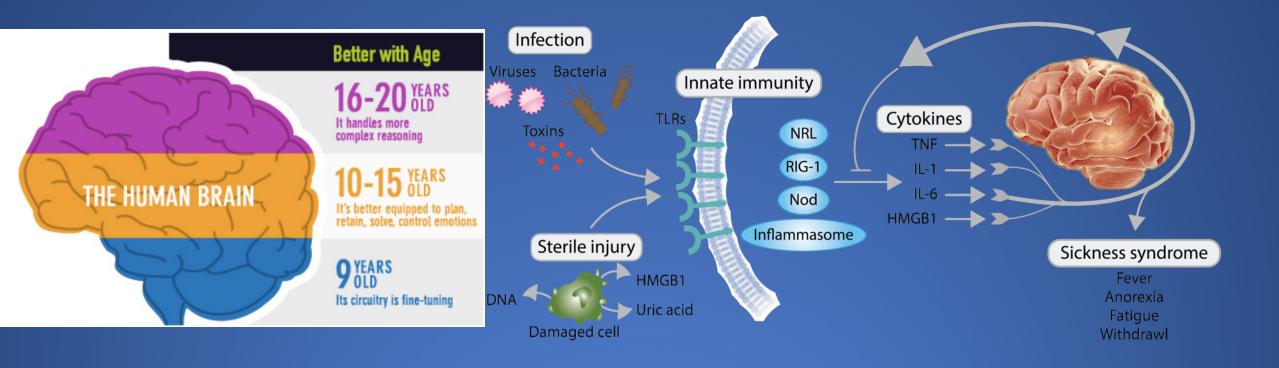
FOOD IS MEDICINE: 1/2 Day Education in Medical School Of God Given Solutions



Toxic GMO Foods:

- Fats/Oils
- Type 1 Interferons
- Mineral Depleted Soil
- PhytoCannabinoids
- GlyPhosate

Danger of Inoculation During key Developmental Phases



The Brain cannot tolerate the introduction of

GARDASIL INJURY

Death, Leukemia, Psychosis, Cardiac Arrest, Autoimmune Disease, Alopecia, Sterility in 25% of those vaccinated

Jessica – Before Vaccine









Jessica - After Vaccine





Lauren After Gardasil

Is it Gardasil Injury or COVID

Hair loss? Is there a difference?

XMRV controversy prevented publication of key Immune data generated BEFORE initiation of Collaboration with Silverman

In: Chronic Fatigue Syndrome Editors: Connor Hudson ISBN: 978-1-63321-961-8 © 2014 Nova Science Publishers, Inc.

Chapter VI

Innate I mmune Changes in the Peripheral Blood of Chronic Fatigue Syndrome Patients: Risk Factors for Disease Progression and Management

Deborah L. S. Goetz¹, Judy A. Mikovits², Jamie Deckoff-Jones³ and Francis W. Ruscetti²

¹LANDRES Management Consultant LLC

²MAR Consulting Inc.

³Private CFS Practice

INIP AWARDED 2007:

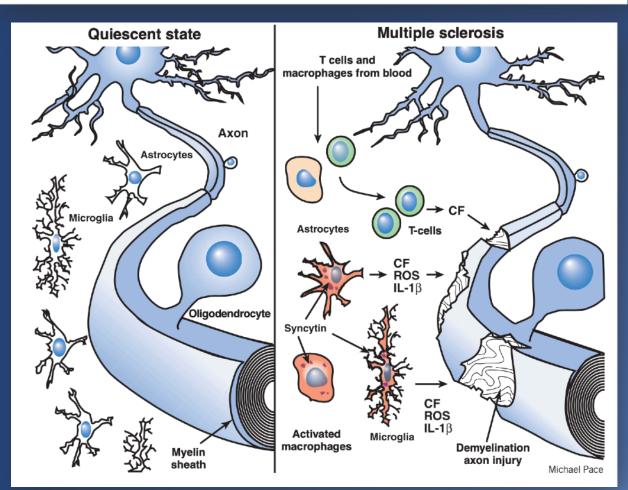
Identified Cytokine Signature of XMRV associated disease! COVID?

in vivo 25: 307-314 (2011)

Ancient viral protein enrages astrocytes in multiple sclerosis

Mark P Mattson & Dennis D Taub

Syncytin is a viral envelope protein encoded in the human genome. New work in this issue indicates that it is activated in multiple sclerosis astrocytes and microglia, contributing to the inflammation-induced myelin destruction that causes disease symptoms.



Xenotropic Murine Leukemia Virus-related Virus-associated Chronic Fatigue Syndrome Reveals a Distinct Inflammatory Signature

VINCENT C. LOMBARDI¹, KATHRYN S. HAGEN¹, KENNETH W. HUNTER⁴, JOHN W. DIAMOND^{2†}, JULIE SMITH-GAGEN³, WEI YANG³ and JUDY A. MIKOVITS¹

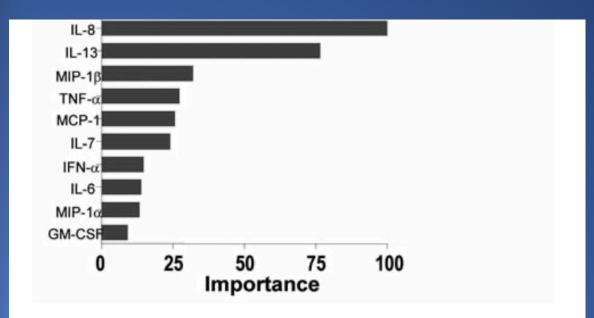
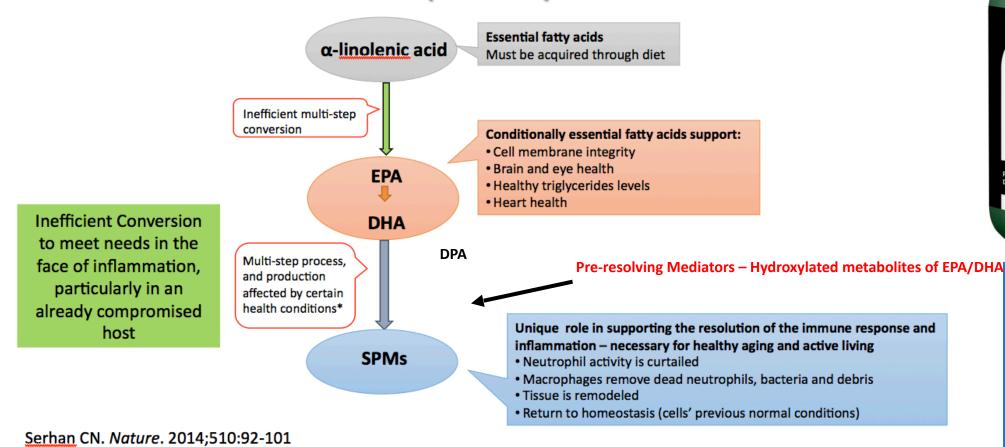


Figure 2. Random Forest prediction. Horizontal bars represent the relative importance that each cytokine or chemokine contributes to the predictive nature of the signature.

Specialized Pro-Resolving Mediators (SPM)



They are called 'resolving mediators' because of their role in facilitating natural resolution of the inflammatory response. Examples of SPMs include resolvins, lipoxins, protectins, and maresins.

NUTRITIONAL FRONTIERS

SPM

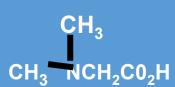
Specialized Pro-resolving Mediators

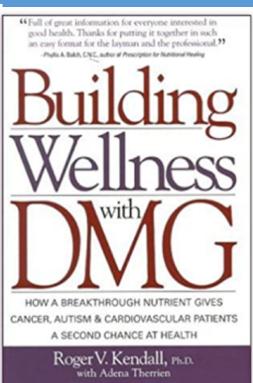
PROFESSIONAL GRADE

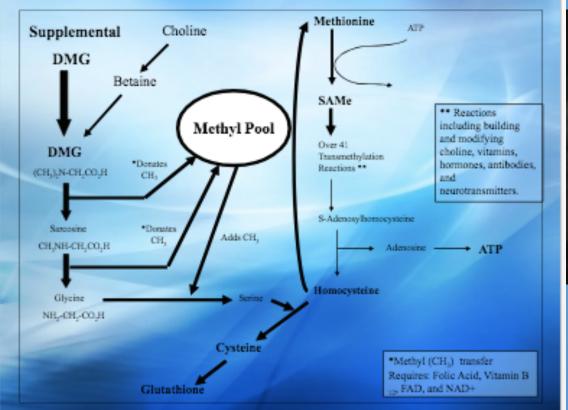
<u>DiM</u>ethyl<u>G</u>lycine

Nutrition's Best Kept secret for strengthening Genomic Pathways and Preventing Disease

•Amino Acid – Intermediary metabolite of the human body









•Important nutrient found in low levels in our food

•As a Key Nutrient DMG PROTECTS OUR GENES



Nutritional Frontier

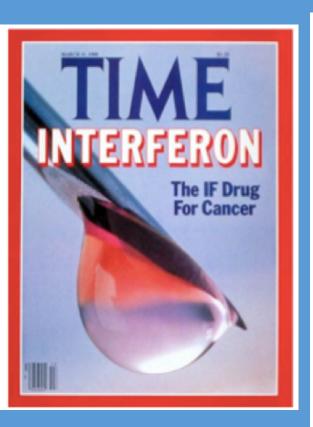
Liquid

EnerDMG

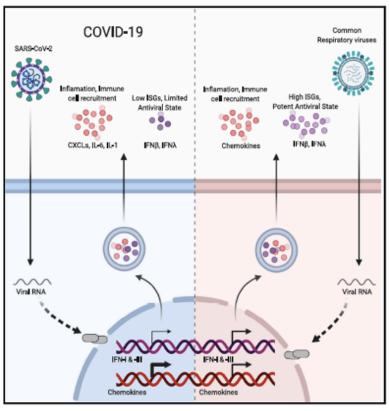
2 fl. oz. • 60 ml

A Dietary Supplemen

Imbalanced IFN Response to RNA Viruses Drives Development of Autoimmune, Autoinflammatory Disease & Cancer



Graphical Abstract



Authors

Daniel Blanco-Melo,
Benjamin E. Nilsson-Payant,
Wen-Chun Liu, ..., Jean K. Lim,
Randy A. Albrecht, Benjamin R. tenOever

Correspondence

res2025@med.cornell.edu (R.E.S.), jean.lim@mssm.edu (J.K.L.), randy.albrecht@mssm.edu (R.A.A.), benjamin.tenoever@mssm.edu (B.R.t.)

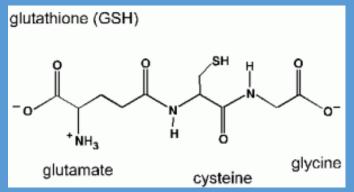
In Brief

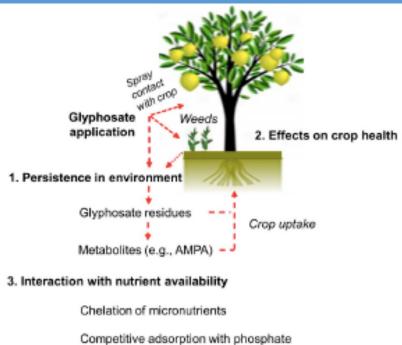
In comparison to other respiratory viruses, SARS-CoV-2 infection drives a lower antiviral transcriptional response that is marked by low IFN-I and IFN-III levels and elevated chemokine expression, which could explain the proinflammatory disease state associated with COVID-19.

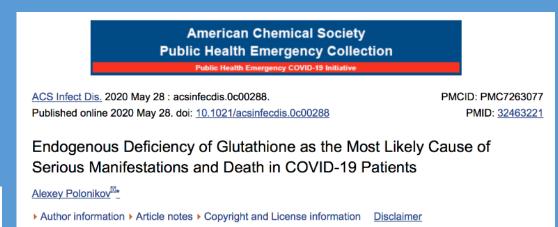


Glyphosate: Damages Key GOD GIVEN antioxidant Glutathione

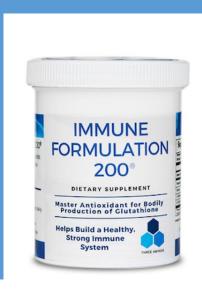
Produced by the liver, glutathione is made up of three amino acids: <u>Lcysteine</u>, <u>glycine</u>, and L-glutamate

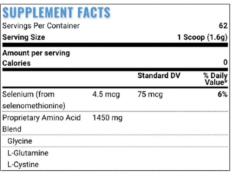






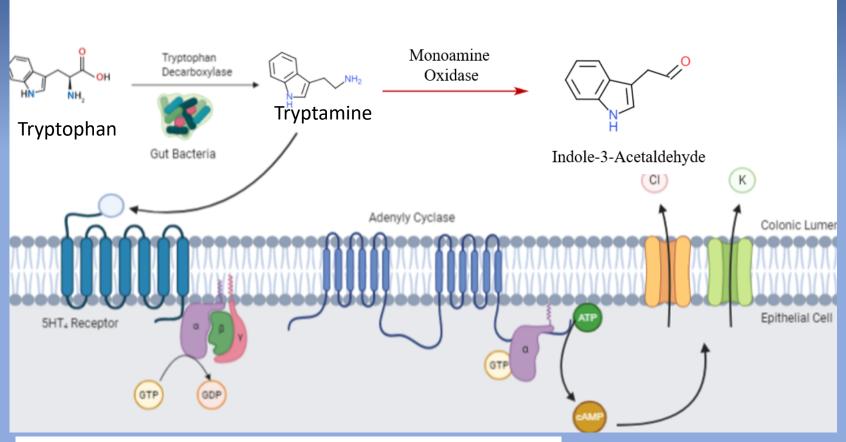
Endogenous glutathione deficiency appears to be a crucial factor enhancing SARS-CoV-2-induced oxidative damage of the lung and, as a result, leads to serious manifestations, such as acute respiratory distress syndrome, multiorgan failure, and death in COVID-19 patients. When the antiviral activity of GSH is taken into account, individuals with glutathione deficiency seem to have a higher susceptibility for uncontrolled replication of SARS-CoV-2 virus and thereby suffer from an increasing viral load. The severity of clinical manifestations in COVID-19 patients is apparently determined by the degree of impaired redox homeostasis attributable to the deficiency of reduced glutathione and increased ROS production. This assumption can be supported by our findings. In particular, COVID-19 patients with moderate and severe illness had lower levels of glutathione, higher ROS levels, and greater redox status (ROS/GSH ratio) than COVID-19 patients with a mild illness. Long-term and severe manifestations of COVID-19 infection in one of our patients with marked glutathione deficiency suggest that the degree of glutathione decrease correlates negatively with viral—replication rate and that an increasing viral load exacerbates oxidative damage of the lung. This finding suggests that the virus cannot actively replicate at higher levels of cellular glutathione, and therefore, milder clinical symptoms are observed with lower viral loads.

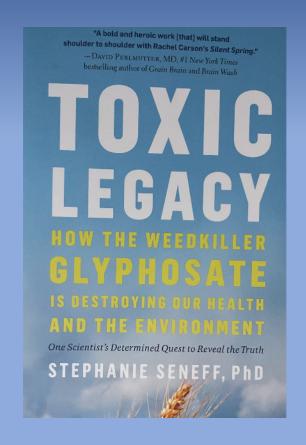




Glyphosate in our soil -> our plants are SICK -> Does toxic food cause COVID?

GOD GIVEN/Endogenous Microbiome Metabolizes Food





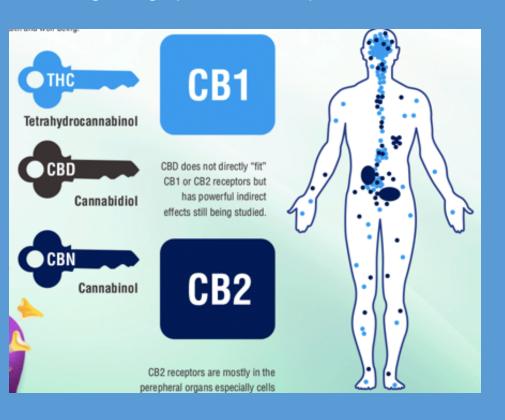
Short Article

Gut Dysbiosis Promotes M2 Macrophage Polarization and Allergic Airway Inflammation via Fungi-Induced PGE₂

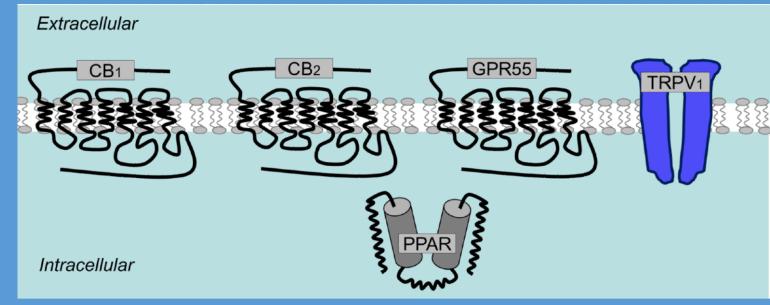
- Only certain antibiotics promote fungal overgrowth in the gut
- Specific commensal bacteria prevent colonization of Candida

The Human Endocannabinoid System (eCS) GOD GIVEN DIMMER SWITCH ON INFLAMMATION

A signaling system that helps to modulate all other physiological, behavioral, and energetic processes in the body.



Glia. 2010 July; 58(9): 1017–1030



Anxiety

Depression

Sleep Disorders

Pain

Itch

Wound healing

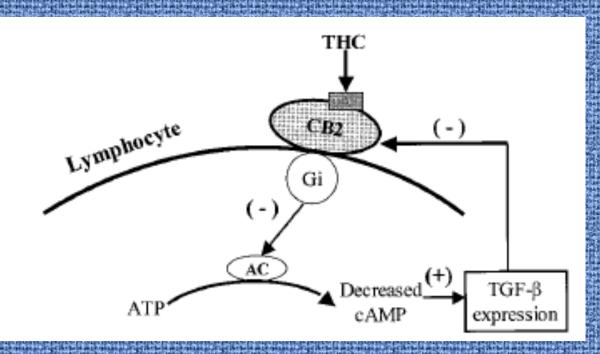
- neuroprotection & plasticity
- · immunity & inflammation
- · apoptosis &carcinogenesis
- · pain and emotional memory
- Supports detoxification:
 - repairs Fibrosis
 - •fatty Liver disease

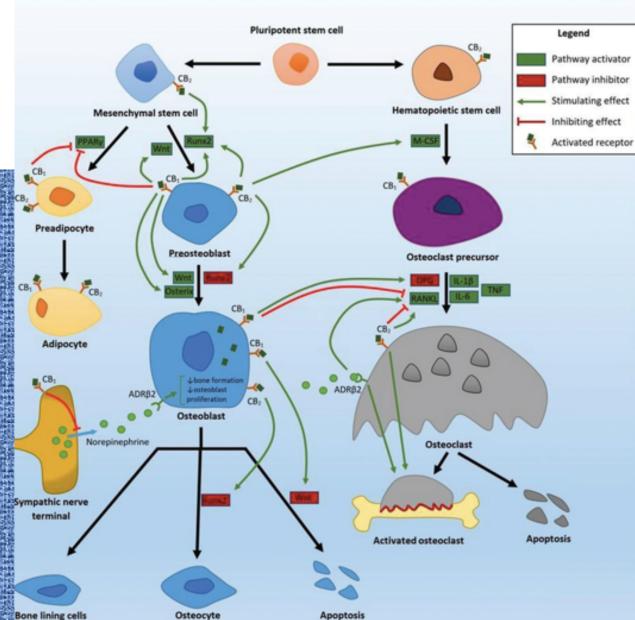
CelPress

Review

Ion Channel Functions in Early Brain Development

Richard S. Smith^{1,*} and Christopher A. Walsh^{1,*}





Cannabinoids regulate MINERALS in Immune Cells via endocannabinoid System Receptors

A downside of activation of MINERALS is the dysregulation endogenous microbes

OUR SOILS ARE DEPLETED OF MINERALS

TRPV1/2	Ca ²⁺ /Na ⁺	PM	Heat (fever?), low pH, mechanical stress		Mono, macro	Degranulation, phagocytosis, cytokine production
TRPC3/6	Ca ²⁺ /Na ⁺	PM	PLC activation (DAG), PIP ₂		T, B, NK cells, neutro	Chemotaxis, degranulation
TRPM2	Ca ²⁺ /Na ⁺	PM, lys	H ₂ O ₂ , NAADP, cADPR		T, B, neutro, mast cells, DC	Cytokine production, degranulation
Magnesium						
TRPM6	Mg ²⁺ >Ca ²⁺	PM		Inhibited by [Mg ²⁺] _i	Gut, kidney, hematopoietic (not T cells)	Unknown in immune cells
TRPM7	Mg ²⁺ >Ca ²⁺	PM	Unknown (BCR, TCR?) PIP ₂ (?)	Inhibited by [Mg ²⁺] _i	Ubiquitous	T cell development, T and B cell proliferation, cytokine production





Review



Divalent cation signaling in immune cells

Divalent cations of two alkaline earth metals Ca²⁺ and Mg²⁺ and the transition metal Zn²⁺ play vital roles in the immune system, and several immune disorders are associated with disturbances of their function. Until re-

Benjamin Chaigne-Delalande and Michael J. Lenardo

Trends in Immunology July 2014, Vol. 35, No. 7

Molecular Development of the Immune System Section, Lymphocyte Molecular Genetics Unit, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD 20892, USA

Non-selective cationic channels in chemical and physical stress?

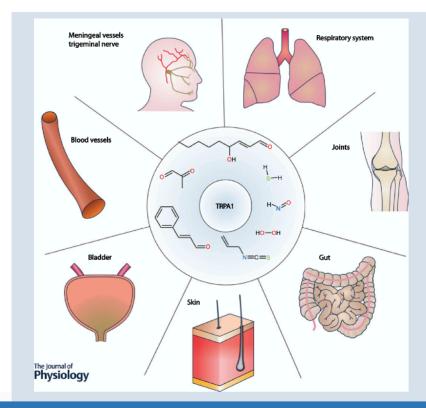
J Physiol 594.15 (2016) pp 4151-4169

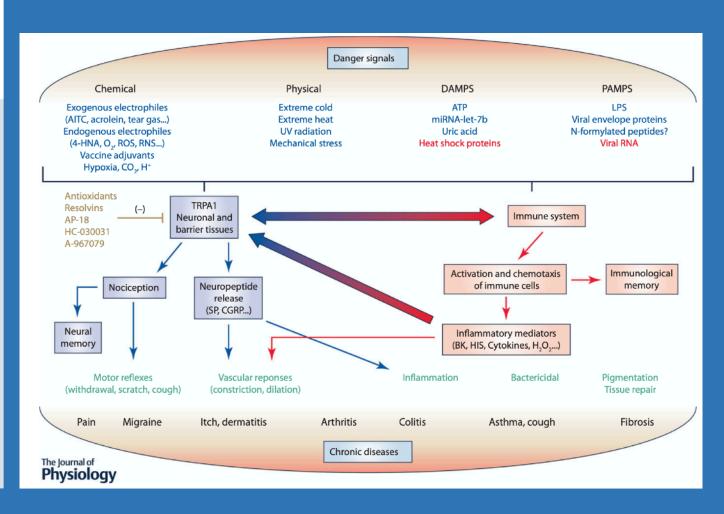
SYMPOSIUM REVIEW

TRPA1 channels: molecular sentinels of cellular stress and tissue damage

Félix Viana

Instituto de Neurociencias de Alicante, Universidad Miguel Hernández-CSIC, Alicante, Spain







Themed Issue: Cannabinoids in Biology and Medicine, Part I

REVIEW

Taming THC: potential cannabis synergy and phytocannabinoid-terpenoid entourage effects

Ethan B Russo

GW Pharmaceuticals, Salisbury, Wiltshire, UK

Correspondence

Ethan Russo, MD, 20402 81st Avenue SW, Vashon, WA 98070, USA. E-mail: ethanrusso@comcast.net

Keywords

cannabinoids; terpenoids; essential oils; THC; CBD; limonene; pinene; linalool; caryophyllene; phytotherapy

Received

19 November 2010 Revised 29 December 2010 Accepted 12 January 2011





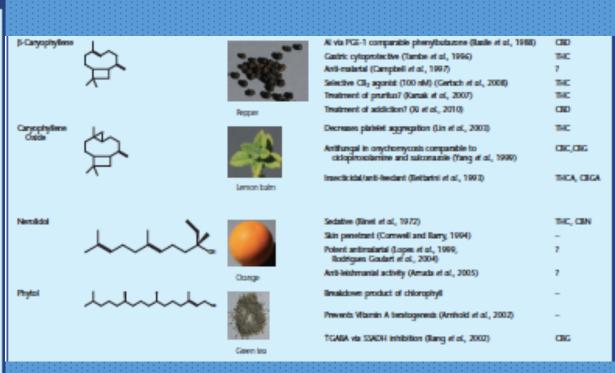
Article

Terpenoids and Phytocannabinoids Co-Produced in Cannabis Sativa Strains Show Specific Interaction for Cell Cytotoxic Activity

Dvora Namdar ^{1,*}, Hillary Voet ¹, Vinayaka Ajjampura ¹, Stalin Nadarajan ¹, Einav Mayzlish-Gati ², Moran Mazuz ¹, Nurit Shalev ¹ and Hinanit Koltai ¹

- Institute of Plant Sciences, Agricultural Research Organization, Volcani Center, Bet Dagan 7505101, Israel
- Israeli Gene Bank, Volcani Center, Bet Dagan 7505101, Israel
- Correspondence: dvoran@volcani.agri.gov.il

Terpenoid	Structure	Commonly encountered in	Pharmacological activity (Reference)	Synergistic connableoid
Limonere	\bigcap /		Potent AD/Immunostimulant via inhalation (Komori et al., 1995)	CIND
	$\prec \prec \prec$	-	Ansiolytic (Carvalho-Freitas and Casta, 2002; Pulltimi Ade et al., 2006) via 5-HT _{1A} (Komiya et al., 2006)	CND
	_ " '		Apoptosis of breast cancer cells (Viguation et al., 1998)	CND, CNG
			Active against some bacteria (Kim et al., 2008)	CIIG
		Lemon	Dermatophylas (Canguinetti et al., 2007; Singh et al., 2010) Castro-cesophageal reflux (Harris, 2010)	THE
g-Pirece	_	and and		
D-Finene	_/_	30 600	Anti-Inflammatory via PCE-1 (Cil et al., 1989)	CIED
	$\neg \vee \downarrow$	- Sale	Bronchodilatory in humans (Falk et al., 1990)	TAC
	1.		Acetylcholinestense inhibitor, siding memory (Ferry et al., 2000)	THICT, CIND
		Rne	4-4	
p-Myrcene		100 7 000	Books inflammation via PGE-2 (Lorenzetti et al., 1991)	CND
	\prec	ALC:	Analgesic, antagonized by nakszone (Rac et al., 1990)	CND, THC
			Sedating, muscle relaxant, hypnotic (do Vale et al., 2002)	THC
	Hops	Hops	Blocks hepatic carcinogenesis by affatiosin (de Oliveira et al., 1997)	CND, CNG
Limitori	HS /	100	ArtiS-aroxiety (Russo, 2001)	CND, CNG7
		40000	Sedative on inhalation in mice (Ruchtauer et al., 1993)	THC
	\neg	6 60 60	Local anesthetic (Re et al., 2000)	THC
	_ `	- College	Analgesic via adenosine A ₃₈ (Fears et al., 2006)	CIED
			Anticonvultant/anti-glutamate (Shabebily et al., 1995)	CND, THICK, CNDV
		Lawredov	Potent anti-letchmunial (do Socorro et al., 2003)	7

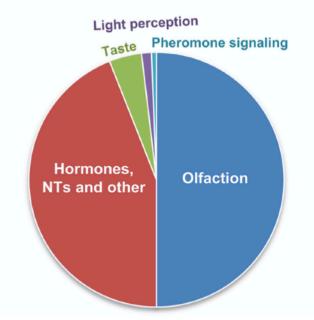


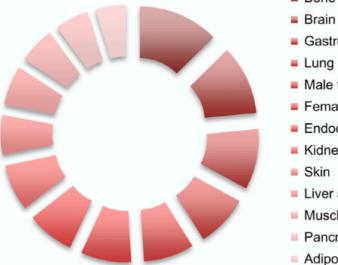
VIRUSES/POSIONS

Lack of Minerals, Essential Amino acids, Phytocannabinoids



A GPCRs main functions Tissue distribution of G_{i/o}-coupled GPCRs





- Bone marrow & immune sy
- Gastrointestinal tract
- Male tissues
- Female tissues
- Endocrine tissues
- Kidney & Urinary bladder
- Liver and gallbladder
- Muscle tissues
- Pancreas
- Adipose and soft tissues





Provide the building blocks to support nitric oxide formation enhance overall circulation, including heart health and erectile dysfunction.

Pharmacogn, Res.

ORIGINAL ARTICLE

Vitamin D., L-Arginine, L-Citrulline, and Antioxidant Supplementation Enhances Nitric Oxide Bioavailability and Reduces Oxidative Stress in the Vascular Endothelium - Clinical Implications for Cardiovascular System

Hazem Dawoud, Tadeusz Malinski

the blood flow and prevents the adhesion of blood components to the vascular wall. A deficiency in bioavailable NO concentration is associated with the dysfunction of endothelial NO synthase (eNOS) and/or an crease in oxidative stress. The deficiency of bioavailable NO is a commo denominator of several cardiovascular diseases, including diabetes, atherosclerosis, and hypertension. **Materials and Methods**: We used a omedical technology to elucidate the balance between bioavailable NO and oxidative stress [peroxynitrite ONOO-) in human umbilical vein endothelial cells (HUVECs) treated with a supplement containing Largnine, Lotrulline, Vitamin D_p, and antioxidents. Nanosensors, with a diameter of 200-300 nm, are capable of measuring in sktu NO and eroxynitrite (ONOO') concentrations produced by single endothelial cells. lesults: The ratio of the concentration of cytoprotective NO [NO] to the tration of cytotoxic peroxynitrite (ONOO-) was used to estimate the efficiency of eNOS. HUVECs incubated with Lottrulline, La and Vitamin D, increased the INOMONOO-1 ratio by 25%, while in the presence of antioxidants, the increase was 15%. The synergistic effect between the mix of Larginine, Lcitrulline, Vitamin D_x and antioxidants was a favorable increase of the overall [NOMONOO] ratio by 50%.
Conclusion: The findings of the study presented here clearly indicate that Larginine, Loitruline, and Vitamin D₃ can significantly after the function of the endothelium and NO production, in a favorable manner, while pointedly reducing ONOO — the main component of oxidative stress. This effect can be significantly potentiated in the presence of antioxidants. Key words: Antioxidant, endothelium, Larginine, Loitrulline, nitric exide,

nomedical studies were used to elucidate the role of a mixture of Vitamin

oxide production and the reduction of oxidative stress in human endoths lial cells. It appears that the combination of natural products can effectively improve endothelial function by about 50% and has shown that, on callula models, it could potentially be used to improve the endothelial function in



Abbreviations Used: HUVECs: Human umbilical vol O. -: Superoxide: HBSS: Hank's balanced salt solution; EC: Endethelial cell:

Cal: Calcium ionophore; CVD: Cardiovascula disease; eNOS: Endothelial nitric oxid

Prof. Tadeusz Malinski. University, 350 West State Street, Athens, Ohio

DOI: 10.4103/pr.pr_79_19



INTRODUCTION

Nitric oxide (NO) is a gaseous molecule that is generated by the NO synthase (NOS) enzyme. NO is synthesized from two substrates: occurs through NOS in a five-electron transfer oxidation of L-arginine to L-citrulline. NOS is located in the membrane of endothelial cells, and ts synthesis is stimulated by calcium flux.[3,4] In the cardiovasculature, the calcium flux is triggered by a mechanical process (shear stress)[5] and chemical stimuli such as acetylcholine, norepinephrine, angiotensin II, and many others.[67]

NO can react rapidly with many biological components, including superoxide (O,), Fe (III) of hemoglobin, guanylate cyclase, and many others. [8-30] Therefore, the measurement of reactive "free" NO is a challenging problem. In our laboratories, we are able to perform surements of bioavailable NO produced by a single endothelial cell in different segments of the cardiovascular system, such as

capillary vessels, aorta, and heart, Maximal NO concentrations vary significantly, depending on the location of the endothelial cells - with the lowest concentrations in the small capillary (about 80 nM) and the highest in the endocardium of the heart (about 2.0 µM).[11] The level of L-arginine (non-essential amino acid) and oxygen. [12] This synthesis NO concentration depends largely on the velocity and type of blood flow (laminar vs. turbulent).[12-5

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Cite this article as: Dawoud H, Malinski T. Vitamin D., L-Arginine, L-Citrulli idative stress in the vascular endothelium - Clinical implications for cardiovascul

© 2020 Pharmacognosy Research | Published by Wolters Kluwer - Medknow

Nitric oxide is a soluble gas that is continually being made from arginine in endothelial cells. Endothelial cells comprise a layer of cells inside the lining of our blood vessels.



TYPE Original Research PUBLISHED 15 August 2022 DOI 10.3389/fnut.2022.885364



OPEN ACCESS

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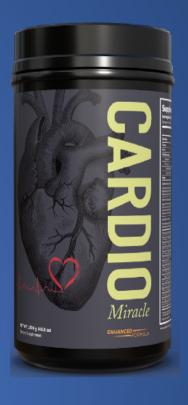
Fliri AF and Kajiji S (2022) Functional characterization of nutraceuticals using spectral clustering: Centrality of caveolae-mediated endocytosis for management of nitric oxide and vitamin D deficiencies

Functional characterization of nutraceuticals using spectral clustering: Centrality of caveolae-mediated endocytosis for management of nitric oxide and vitamin D deficiencies and atherosclerosis

Anton Franz Fliri* and Shama Kajiji

Emergent System Analytics LLC, Clinton, CT, United States

It is well recognized that redox imbalance, nitric oxide (NO), and vitamin D deficiencies increase risk of cardiovascular, metabolic, and infectious diseases. However, clinical studies assessing efficacy of NO and vitamin D supplementation have failed to produce unambiguous efficacy outcomes





100 Years of Suramin

Citation Wiedemar N, Hauser DA, Mäser P. 2020. 100 years of suramin. Antimicrob Agents Chemother 64:e01168-19. https://doi.org/10.1128/AAC.01168-19.

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Address correspondence to Pascal Mäser, pascal.maeser@unibas.ch.

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Natalie Wiedemar, a,b Dennis A. Hauser, a,b Pascal Mäsera,b

SURAMIN, THE FRUIT OF EARLY MEDICINAL CHEMISTRY

SURAMIN AS AN ANTIPARASITIC DRUG

SURAMIN AS AN ANTIVIRAL AGENT

SURAMIN AGAINST CANCER SURAMIN AS AN ANTIDOTE

Three of the many biological activities of suramin support its potential use as a protective agent: the inhibition of thrombin, the inhibition of phospholipase A2, and the inhibition of purinergic signaling

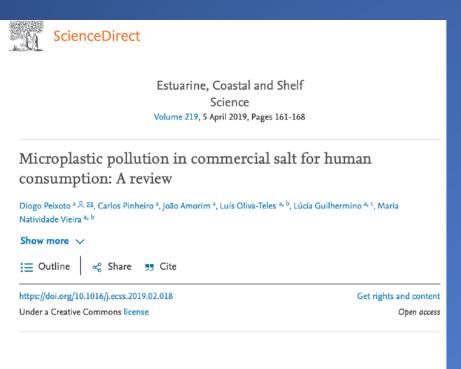
FURTHER POTENTIAL USES OF SURAMIN

	Activity in ^a :			
Disease and/or pathogen	Cell culture	Animal model	Patient	
Parasitic infections				
T. b. rhodesiense HAT	Χ	X	Χ	
T. brucei gambiense HAT	Χ	X	X	
Surra, <i>T. evansi</i>	Χ	X	NA	
River blindness, O. volvulus	Χ	X	X	
T. cruzi	Χ			
Leishmania spp.	Χ			
P. falciparum	Х			
Viral infections				
Hepatitis virus	Χ	X	X	
AIDS, HIV	Χ		Χ	
Herpes simplex virus	Χ	X		
Chikungunya virus	Χ	X		
Enterovirus 71	Χ	X		
Dengue virus	Χ			
Zika virus	Χ			
Ebola virus	Х			
Neoplastic diseases				
Non-small cell lung cancer	Χ	X		
Breast cancer	Χ	X		
Bladder cancer	Χ	X		
Brain tumors	Χ	X		
Prostate cancer	Х	Χ	Χ	
Other				
Snakebite	Χ	Χ		
Arthritis	Χ	Χ		
Autism	NA	X	X	

SYNCYTIN: ONLY One Component of Snake Venom additional components/toxins in Food, Water "Drugs"

FEBS Letters 436 (1998) 256–258

Enhancement and inhibition of snake venom phosphodiesterase activity by lysophospholipids



Highlights

- Plastics as marine debris are the new addition to the list of global threats.
- Marine pollution will undoubtedly lead to the contamination of sea products.
- · Microplastics in salts might pose a threat to human food safety and health.
- · Microplastics sorb contaminants and transfer them to salt and other products.

Bayer Request for Additional Information and Attestation Regarding Religious Exemption / Accommodation Form (Covid-19 Vaccine)



Bayer requires additional information to further consider your request for a religious exemption/accommodation. Please complete this form and attestation and submit it to accommodations US@bayer.com.

Your request appears to be principally based upon your objection to the use of fetal cell lines in the testing, research, or development of the COVID-19 vaccine and/or your belief concerning the purity of the body. The information reported on this form will serve to validate your understanding of fetal cell use in common medicines and consumer products, and aid in assessing the sincerity of your professed religious belief.

The following is a non-exhaustive list of common medicines and products that have used fetal cells in testing, research, and/or development.¹

Acetaminophen	Enbrel	Maalox	Sudafed
Acetylsalicylic Acid (ASA)	Ex-Lax, Zocor	Metformin/Glucophage	Suphedrine
Advil	Havrix	Motrin	Toprol
Albuterol	Hydroxychloroquine	Mucinex	Tums
Aleve	Ibuprofen	Pepto Bismol	Tylenol
Amlodipine/Norvasc	Ivermectin	Preparation H	Varilrix
Aspirin	Levothyroxine	Prilosec OTC/Zegrid	Zoloft
Azithromycin	Lidocaine	Robitussin/Delsym	Zostavax
Benadryl	Lipitor	Senokot	
Claritin	Losartan/Cozaar	Simvastatin	

To be Completed by Individual	Requesting the Accommodation
Full Name:	Click here to enter name.
Employee or Contractor ID #	
Email:	Click here to enter email.

Please state whether your religious objection to the COVID-19 vaccine is equally applicable to the above medicines and other products that used fetal cells in testing, research, and/or development. If not, please explain why.	Click here to enter text.
If your religious objection to the COVID-19 vaccine is equally applicable to medicines and products that used fetal cells in testing, research, and/or development, please state whether you abstain from using all such medicines and products. If not, please	Click here to enter text.

Suramin & Ivermectin: Purinergic Modulators important for restoring balance of Innate and adaptive Immunity

Annual Review of Immunology

Purine Release, Metabolism, and Signaling in the Inflammatory Response

Joel Linden,^{1,2} Friedrich Koch-Nolte,³ and Gerhard Dahl⁴

Annu. Rev. Immunol. 2019. 37:325-47

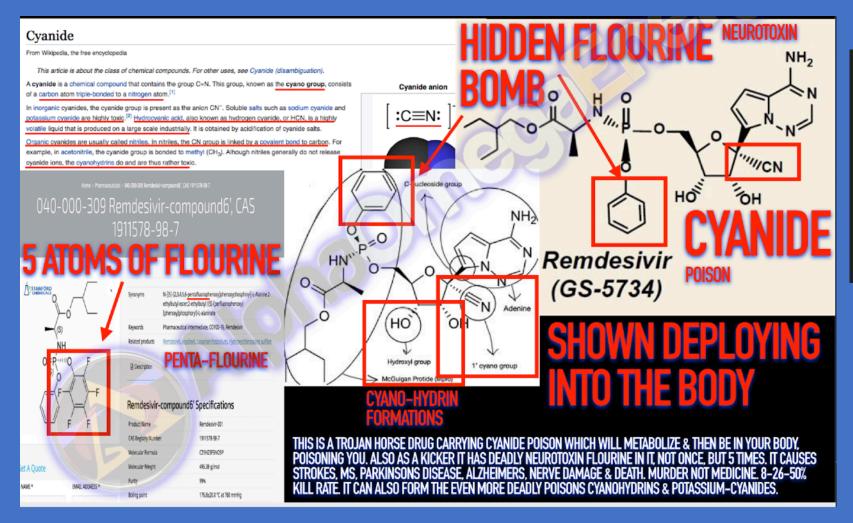
The Annual Review of Immunology is online at immunol.annualreviews.org

- Antiparasitic 1920s
- Potent RT inhibitor 1986
- P2Y Purinergic Receptor inhibitor
- Cancer therapy prostate cancer,
- HTLV-1 cancer Bladder Cancer
 - inhibits the binding of growth factors (TGF-beta, EGF, PDGF to their receptors and thus antagonize the ability of these factors to stimulate growth of tumor cells
- modulator of the ATP/P2X4/P2X7 axis
- selectively targets immunosuppressive myeloid cells and Tregs
- functions as an RNA helicase
- an activator of chloride channel receptors
- inducer of mitochondrial dysfunction and oxidative stress

Both Inhibit Plasmodium parasite of the blood plasma that affects the oxygen carrying capacity of the red blood cells



Trojan horse Poisons Remdesivir and Paxlovid "Suramin/Ivermectin" With Cyanide & Fluorine





Dear Dr. Judy, I am excited to report that thanks to my jabbed neighbors and friends I have now developed sufficient immunity and ample antibodies. Look at my value: 417! Thanks to your protocol I am not afraid of the vaccinated. I take my Immune Formulation 200, Cardio Miracle, Prolean Greens DMG & Paximune regularly. Natural immunity for the win! It truly works!

AFFIDAVIT OF Proof of IMMUNITY EXEMPTION ON RELIGIOUS GROUNDS FROM Vaccination/Inoculations

Date:/20			
Governing Authority Name (business issuing mandate):Address:			
RE: Religious Exemption	n from Vaccination Requirements. Declaration of		
	God Given IMMUNITY		
(Governing Authority Name) and practices. On this basis, as no acknowledged by the CDC in 201 violate my right to freely exercise Constitution of The United States	, the undersigned do hereby swear and affirm that eligious organization, and that the immunizations required by are contrary to my religious tenets of vaccination on the CDC schedule has been safety tested as 19 and EUA COVID19 inoculations/immunization requirements are my religion as guaranteed by the First Amendment of the sof America, I am asserting my rights to an exemption by from EUA Inoculation and as as I am immunized/vaccinated by virtue of the robust natural wered from COVID19.		
	o my religious beliefs as I regularly take oral booster. My DA and CDC mandated standards, which were recently changed t provide immunity.		
1 7 1	d on the First Amendment of the United States Constitution and ion against discrimination or segregation in places of public		

I qualify for this exemption based on the First Amendment of the United States Constitution and 42 U.S. Code § 2000a - Prohibition against discrimination or segregation in places of public accommodation, which states "All persons shall be entitled to the full and equal enjoyment of the goods, services, facilities, privileges, advantages, and accommodations of any place of public accommodation, as defined in this section, without discrimination or segregation on the ground of race, color, religion, or national origin." Failure to uphold 42 U.S. Code § 2000a may be met with legal action.

Thank you in advance

SARS CoV 2 (COVID-19) Tests **Test Name** Result Reference Range RS COV 2 AB (IgG) NUCLE CAPSID, QL ARS CoV 2 AB IGG POSITIVE ference range: Negative is test is intended for use as an aid in identifying individuals with an adaptive immune response to SARS-CoV-2, indicate or infection. Results are for the detection of SARS-CoV-2 antibodies. IgG antibodies to SARS-CoV-2 are generally detection. veral days after initial infection, although the duration of time antibodies are present post-infection is not well characterize known for how long antibodies persist following infection and if the presence of antibodies confers protective immunity. It stectable virus by molecular testing present for several weeks following seroconversion. Negative results do not preclude fection. This test should not be used to diagnose acute SARS-CoV-2 infection. If acute infection is suspected, direct testing nethods for SARS-CoV-2 is necessary. False positive results for the test may occur due to cross-reactivity from pre-existing ossible causes Please review the "Fact Sheets" available for health care providers and patients using the following websites. QuestDiagnost Covid-19/HCP/antibody/fact-sheet2 QuestDiagnostics.com/home/Covid-19/Patients/antibody/fact-sheet2 This test has been authorized by the FDA under an Emergency Use Authorization (EUA) for use by authorized laboratories. 1 authorized labeling is available on the Quest Diagnostics website www. e. estDiagnostics.com/Covid19. For additional information please refer to http://education.ques_uiagnostics.co n/faq/FAQ219 (This link is being provided for info educational purposes only.) 417.4 H < 0.8 U/mL SARS COV 2 AB, TOTAL SPIKE SEMI QN INDEX INTERPRETATION Negative <0.8 > or = 0.8 Positive

GlobalTekMD – C.A.M. Complementary and Alternative Methods

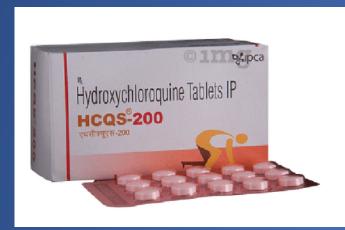
- One-on-one consultations
- Care Calls
- Health history review
- Protocol and lifestyle recommendations
- Testing and Analysis
- Educational Courses
- Like-minded Communities
- The C.A.M. also includes full access to the Allopathic/Medical Arm
 - Get the prescriptions you need. Full access to a medical physician within 7 minutes No waiting room!
- NO One is offering solutions like this!
 - Consultation, lifestyle modification, Supplement protocols and solutions, special group for specific issues, complementary modalities (IV therapy, redlight, Ozone and more).
- We are the NEW MODEL or TRUE Health Care for your whole family!





Proven Effective Oral Therapeutic/Immunization strategies for HIV & Vax AIDS



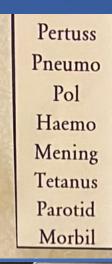




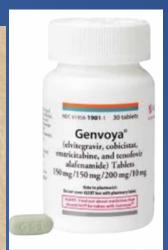








Pertuss
Pneumo
Pol
Haemo
Mening
Tetanus
Parotid
Morbil









Proven Effective Natural Therapies for HIV & VaX AIDS: Detox Spike Proteins & Heal HIV & Vax AIDS Including COVID



QUINTON ISOTONIC

1000 ml (33.8 fl. oz)

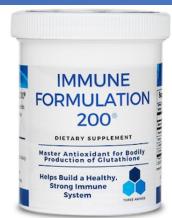














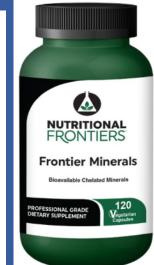
Max-Strength

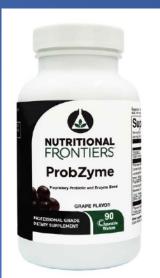












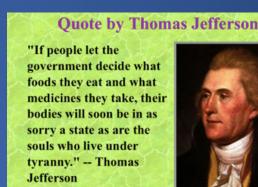


Call To Action: #stoptheshots

Repeal 1986 National Vaccine Injury Compensation Act End all Mandates and Restore Liability to all Convict criminals at EPA, CDC, FDA, NIH for crimes against humanity

Eliminate Advisory Committee on Immunization Practices (ACIP)

Use NIH and CDC & FDA Patent Royalties Compensate all Victims of this 35 Year Plague of Corruption





Together we Can Restore Faith in The Promise of Science

