An Inner Shield Against the Harmful Effects of Electromagnetic Fields

Superluminal Particles, Biological Quantum Entanglement and Microbiome Medicine

Marco Ruggiero

November 1st, 2021

Acknowledgements

- I wish to thank the Mr. Pineault for this great opportunity.
- I wish to thank all those who will have the patience to listen to this presentation.

Advisory

- No information in this talk is presented by the author as medical advice.
- Standard of care for any disease must be followed as well as rules and regulations established by Health Authorities of each Country.

Disclosure of conflict of interest

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- I am the inventor of a number of supplements and developed the approaches and the products described in this study.

Please allow me to introduce myself

- I obtained my MD in1980, and then a PhD in Molecular biology.
- I served in the Italian Army (North Atlantic Alliance) as Lieutenant Medical Officer in 1982-83.
- I worked as post-doc at Burroughs Wellcome Co. (1984), and as visiting scientist at the National Cancer Institute of the NIH (1987).
- I was appointed Professor of Molecular Biology at the University of Firenze, Italy, in 1992 where I worked until 2014.
- I have a specialization in diagnostic radiology.
- I published more than 240 scientific articles co-authored, among others, by scientist such as EG Lapetina, SA Aaronson, JH Pierce, PH Duesberg, HH Bauer, JJ Bradstreet, D Klinghardt.
- One of my articles in PNAS was sponsored by Nobel Laureate Sir John Vane.
- My current research interests are in immunotherapy, quantum biology and microbiome medicine.

- For about forty years, I studied the biological effects of different types of energy, ranging from static magnetic fields to ionizing and non-ionizing radiations and ultrasounds, on normal and transformed cells in culture, embryos and organisms, with particular reference to changes in signal transduction, gene expression, cell morphology, and clinical responses.

- *Casamassima et al., 1989;*
- *Orlandini et al., 1991;*
- *Ruggiero et al., 1992;*
- *Vincenzini et al., 1993;*
- *Pacini et al., 1994a; 1994b; 1995;*
- *Chiarugi et al., 1995;*
- *Mazzanti et al., 1996;*
- *Santucci et al., 1996;*
- *Pacini et al., 1999a; 1999b; 1999c;*
- *Casamassima et al., 1999;*
- *Pacini et al., 2002; 2003;*
- *Ruggiero et al., 2004; Pacini et al., 2006;*
- *Ruggiero, 2008;*
- *Ruggiero et al., 2013;*
- *Bradstreet et al., 2014;*
- *Ruggiero and Aterini, 2015;*
- *Klinghardt, 2017;*
- *Branca et al., 2018.*

My first article on this topic

Marco Ruggiero

University of Firenze, retired. National Coalition of Independent Scholars
Verified email at bravo-europe.com

Oncoimmunology immunotherapy oncogenes signal transduction vitamin D.

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Release of endogenous chondroitin sulfate and heparin as consequence of dysregulated proteolysis in COVID-19 M Ruggiero Research Square preprints 711871 (https://www.researchsquare.com/article/r …		2021
Experimental Evidence for the Role of Natural Radioactivity in Influencing Viability of Commensal Microorganisms M Ruggiero American Journal of Immunology 17 (1), 14-24		2021
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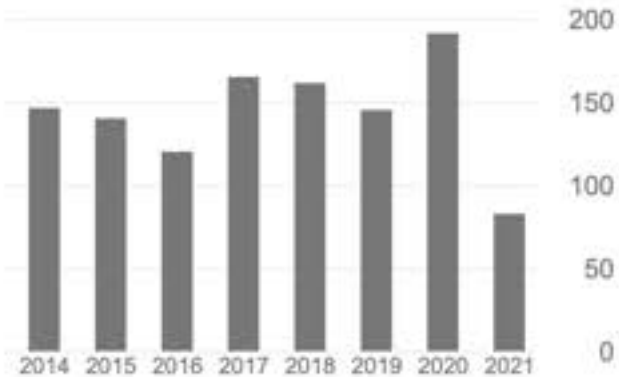

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I served in the Italian (NATO) Army as Lieutenant Medical Officer in 1982-83

- In 1970, a report from the Soviet Union described a "microwave syndrome" among military personnel working with radio and radar equipment. These subjects showed symptoms that included fatigue, dizziness, headaches, problems with concentration and memory, and sleep disturbances.
- Similar symptoms were found in the Eighties among Swedes working in front of the old cathode monitors of those days. They had symptoms such as flushing, burning, and tingling of the skin, especially on the face, but also headaches, dizziness, tiredness, and photosensitivity.
- The same symptoms were reported in Finns; in this case electromagnetic sensitivity was attributed to exposure to radiowaves.

Havana syndrome

From Wikipedia, the free encyclopedia

Havana syndrome is a set of medical signs and symptoms reported by United States and Canadian embassy staff in Cuba dating to late 2016 as well as subsequently in some other countries, including the United States,[5][6][7] Austria,[8][9] and Germany.[10] In 2021, the Biden administration started calling them "unexplained health incidents" or UHIs.[11]

In 2018, U.S. diplomats in China reported problems similar to those reported in Cuba, as did undercover CIA agents working in other countries with partner agencies to counter Russian covert operations.[12][13]

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> Oncol Res. 2002;13(1):19-24. doi: 10.3727/096504002108747926.

Exposure to global system for mobile communication (GSM) cellular phone radiofrequency alters gene expression, proliferation, and morphology of human skin fibroblasts

Stefania Pacini [1], Marco Ruggiero, Iacopo Sardi, Stefano Aterini, Franca Gulisano, Massimo Gulisano

Affiliations + expand

PMID: 12201670 DOI: 10.3727/096504002108747926

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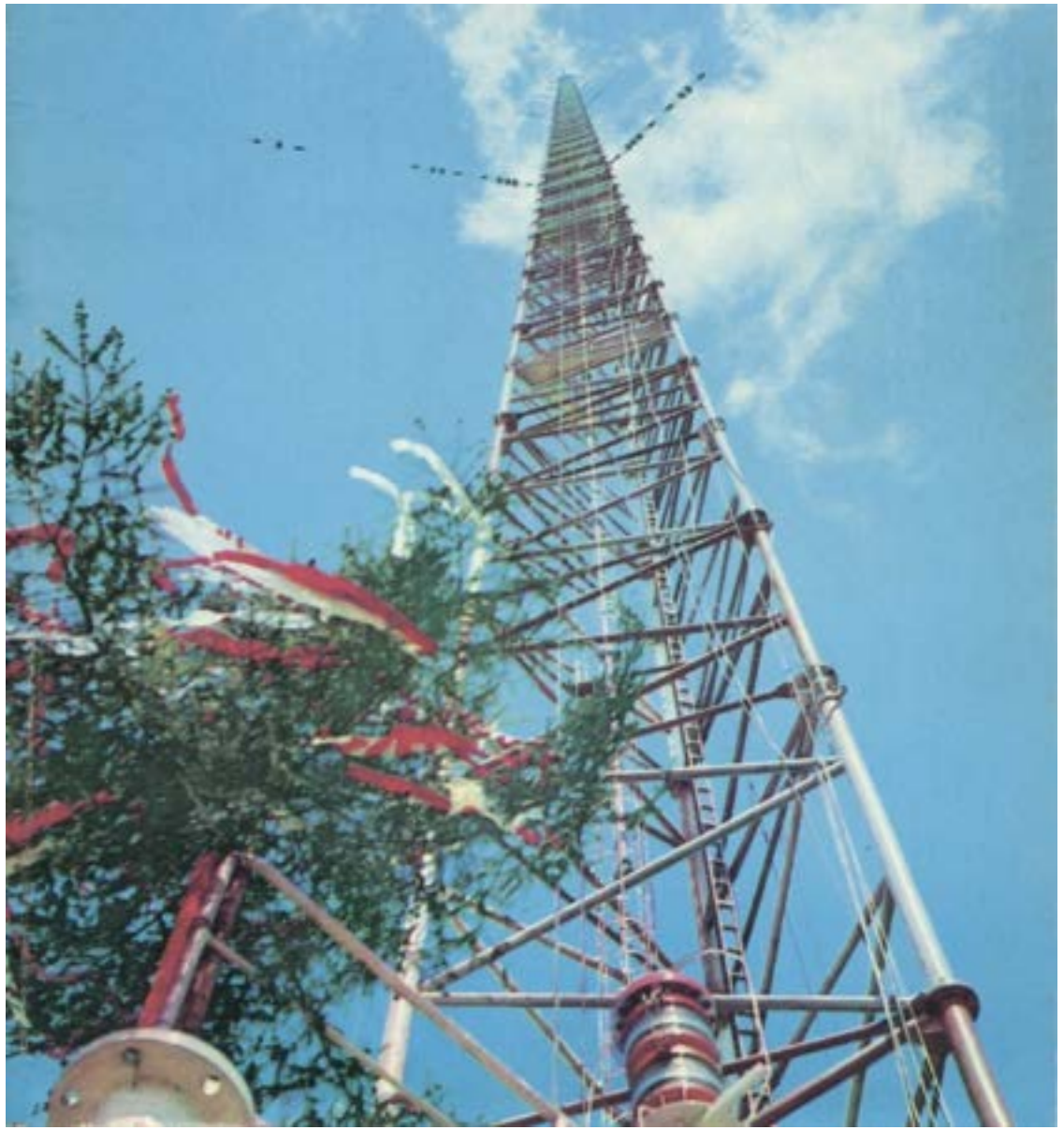

> Environ Res. 2018 May;163:208-216. doi: 10.1016/j.envres.2018.01.032. Epub 2018 Feb 22.

The human skin as a sub-THz receiver - Does 5G pose a danger to it or not?

Noa Betzalel [1], Paul Ben Ishai [2], Yuri Feldman [3]

Affiliations – collapse

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JOURNAL OF BIOLOGICAL REGULATORS & HOMEOSTATIC AGENTS Vol. 34, no. 4, xx-xx (2020)

EDITORIAL

5G Technology and induction of coronavirus in skin cells

M. Fioranelli[1], A. Sepehri[1], M.G. Roccia[1], M. Jafferany[2], O. Yu. Olisova[3], K.M. Lomonosov[3] and T. Lotti[1,3]

[1]Department of Nuclear, Sub-nuclear and Radiation Physics, G. Marconi University, Rome, Italy; [2]Central Michigan Saginaw, Michigan , USA; [3]Department of Dermatology and Venereology, I.M. Sechenov First Moscow State Medical University, Moscow, Russia

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2020, Т. 18, № 4

Doklady BGUIR
2020, Vol. 18, No. 4

CORRELATION BETWEEN THE POTENTIAL ELECTROMAGNETIC POLLUTION LEVEL AND THE DANGER OF COVID-19. 4G/5G/6G CAN BE SAFE FOR PEOPLE

VLADIMIR I. MORDACHEV

Belarusian State University of Informatics and Radioelectronics (Minsk, Republic of Belarus)

Submitted 15 June 2020

Although a large number of other factors (the degree of general environmental pollution, food quality, climate features, epidemic phase, timeliness and effectiveness of restrictive measures taken, etc.) affects public health and susceptibility of the population to infections, and also data of different countries on morbidity and lethality have a different degree of reliability and reflect the different effectiveness of national health systems in struggle with COVID-19, today one cannot fail to see the area correlation between the use of recommendations [24] and the distribution of lethality from COVID-19.

In particular, an analysis of WHO reports [38–40] indicates that in a group of countries where, according to data [12], hygienic restrictions on radio frequency EM fields of 1–10 μW/cm^2 are accepted, the relative level of lethality from COVID-19 is (1–5) % of the number of the infected, and in a group of countries where the hygienic regulation of EMB is carried out in accordance with corporate recommendations [24], this level is (5–20) %.

Encyclopedia of Cancer
2017 Edition | Editors: Manfred Schwab

Electromagnetic Fields

From the skin to the microbiome

Authors Authors and affiliations
Marco Ruggiero, Stefano Aterini

Reference work entry
First Online: 20 June 2017
DOI: https://doi.org/10.1007/978-3-662-46875-3_1843

How to cite

Definition

Magnetic fields are generated by the movement of any electrical charge. A continuous electric current passing through a conductor creates a static magnetic field, while an electric current changing in time creates a variable magnetic field, which radiates electromagnetic waves spreading around the surrounding space at light speed. These electromagnetic fields enter the living tissue but are known as non-ionizing radiation since they are weak and unable to break molecular bonds. Metals such as iron, zinc, manganese, and cobalt are sensitive to electromagnetic fields that may exert their effects on proteins and cellular components containing these metallic elements.

Electromagnetic Fields

Authors Authors and affiliations

Marco Ruggiero, Stefano Aterini

Reference work entry
First Online: 20 June 2017
DOI: https://doi.org/10.1007/978-3-662-46875-3_1843

For example, it was demonstrated that the myoelectrical activity of the gut induces the expression of heat-shock protection mechanisms in the cells of gut epithelium as well as in gastrointestinal microorganisms thus de facto altering the delicate balance of the gut microbiome (Laubitz et al. 2006). Considering that the human microbiome is involved in the development and function of all other organs and systems and most notably the immune system (Palm et al. 2015), we hypothesize that the alteration of the microbiome may be one of the mechanisms through which electromagnetic fields, both endogenous and exogenous, exert their biological effects. Thus, the effects of electromagnetic fields on the human microbiome open a new perspective in assessing the risks for health and in preventing them.

> Exp Physiol. 2006 Sep;91(5):867-75. doi: 10.1113/expphysiol.2006.033365. Epub 2006 May 25.

Gut myoelectrical activity induces heat shock response in Escherichia coli and Caco-2 cells

Daniel Laubitz [1], Alicja Jankowska, Anna Sikora, Jarosław Woliński, Romuald Zabielski, Elzbieta Grzesiuk

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PMID: 16728456 DOI: 10.1113/expphysiol.2006.033365

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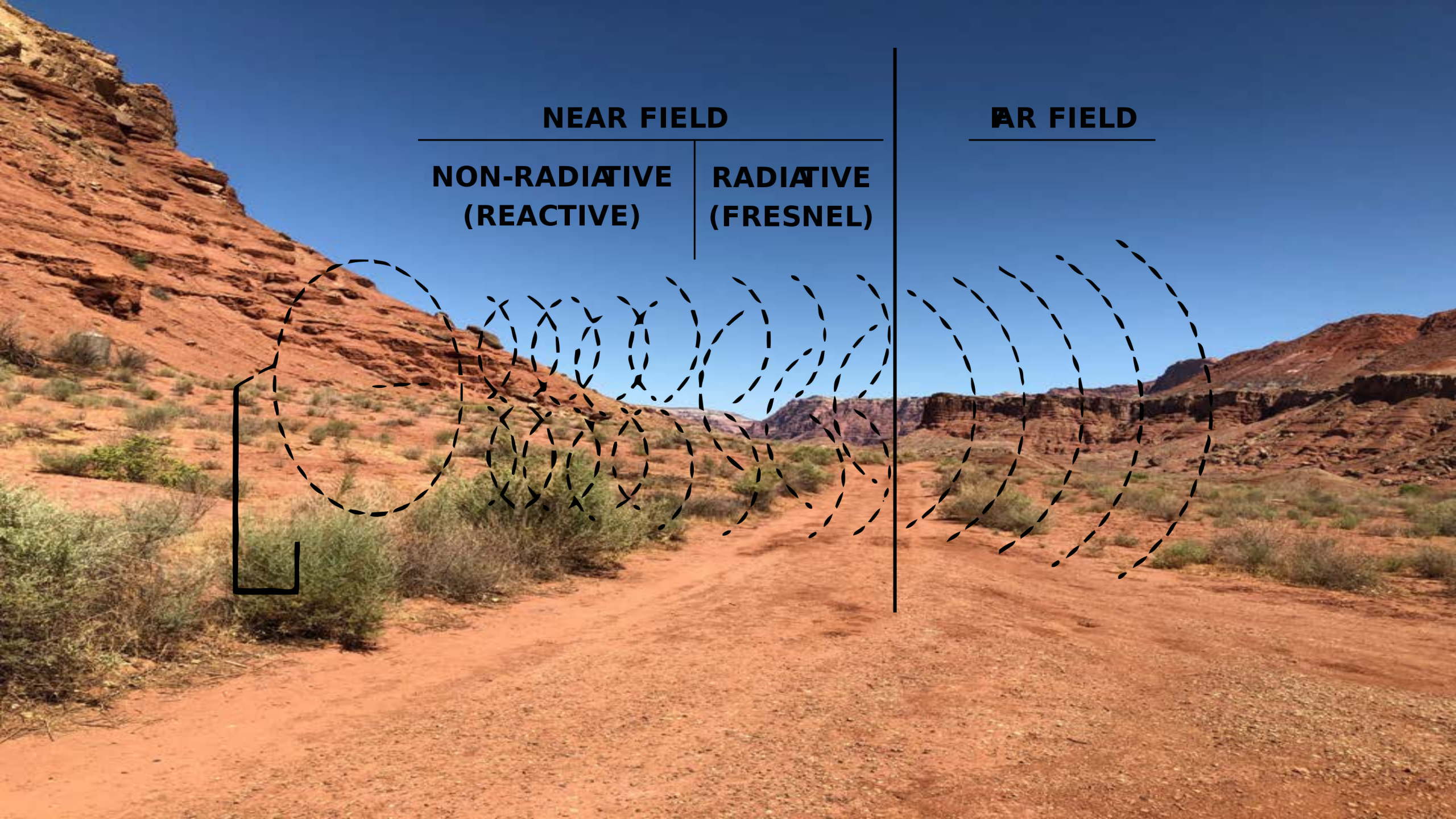
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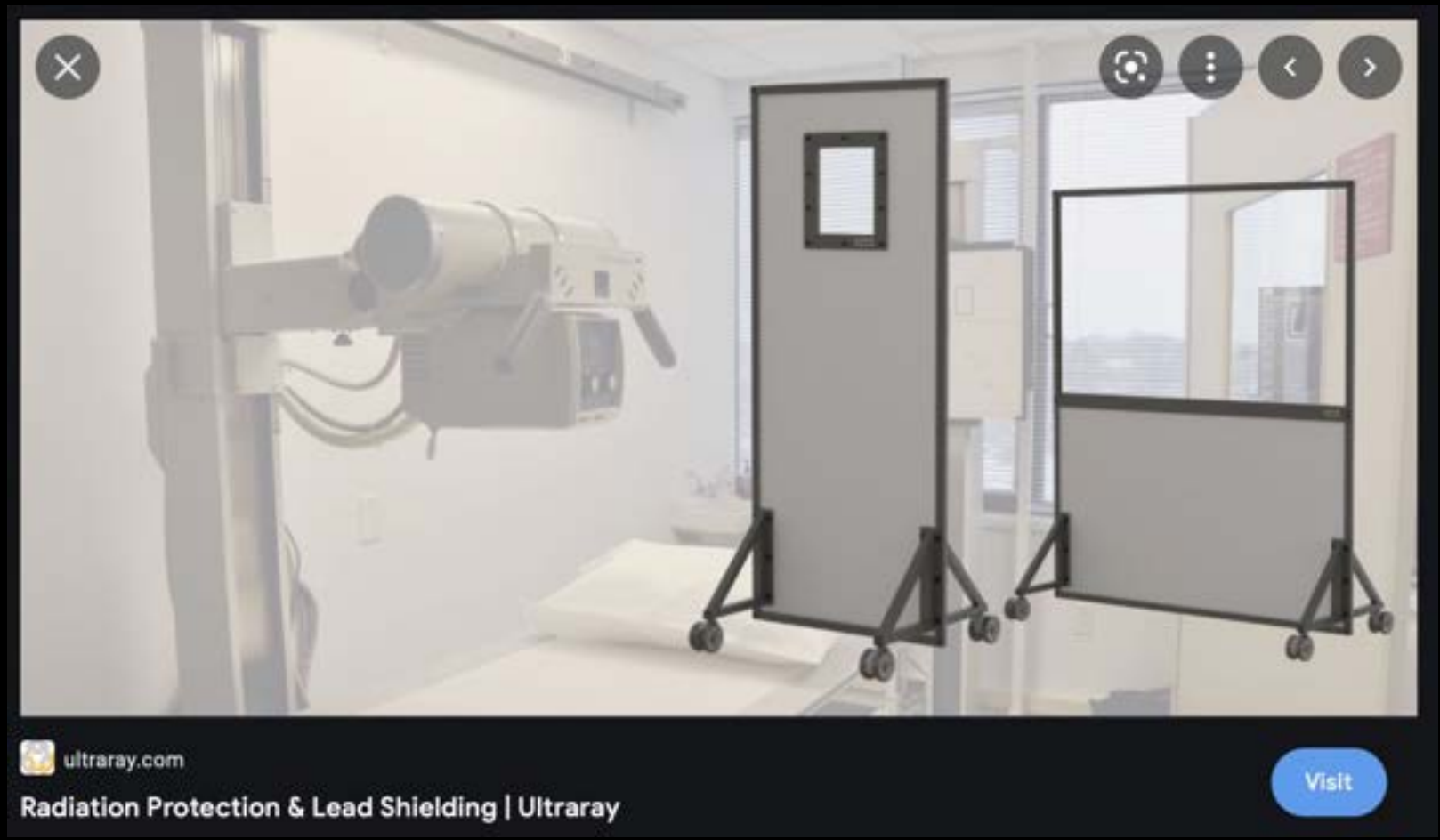
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Marco Ruggiero / American Journal of Immunology 2021, Volume 17: 14.24
DOI: 10.3844/ajisp.2021.14.24

The results presented in this study lay the foundation for the development of a novel approach to protection against electromagnetic fields comprising ionizing and non-ionizing radiations. *In silico* observations and preliminary results on subjects exposed to common electromagnetic fields under real-life conditions, support the hypothesis that co-cultures of radiation-resistant cyanobacteria and probiotics
may confer protection against the harmful effects of electromagnetic fields.

Marco Ruggiero / American Journal of Immunology 2021, Volume 17: 14.24
DOI: 10.3844/ajisp.2021.14.24

Quelle: Deutsche Fotothek

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https://commons.wikimedia.org/w/index.php?curid=47098390

Rationale for the use of Arthrospira Platensis

Most prokaryotic cells are sensitive to the killing effects of ionizing radiations and even to weak electromagnetic fields such as those generated by the physiologic electric activity of human cells *in vivo* (Ruggiero and Aterini, 2015). However, certain prokaryotes, such as cyanobacteria, exhibit extremely high resistance to the killing effects of ionizing radiations (Badri *et al*., 2015). A notable example is represented by Arthrospira platensis, a bacterium that survives exposure to gamma-rays up to 6,400 Gray units (Gy) with a dose rate of 527 Gyh^{-1} (Badri *et al*., 2015) [for comparison, the median human

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lethal radiation dose computed from data on occupants of reinforced concrete structures in Nagasaki, Japan, is around 3 Gy (Levin *et al*., 1992)].

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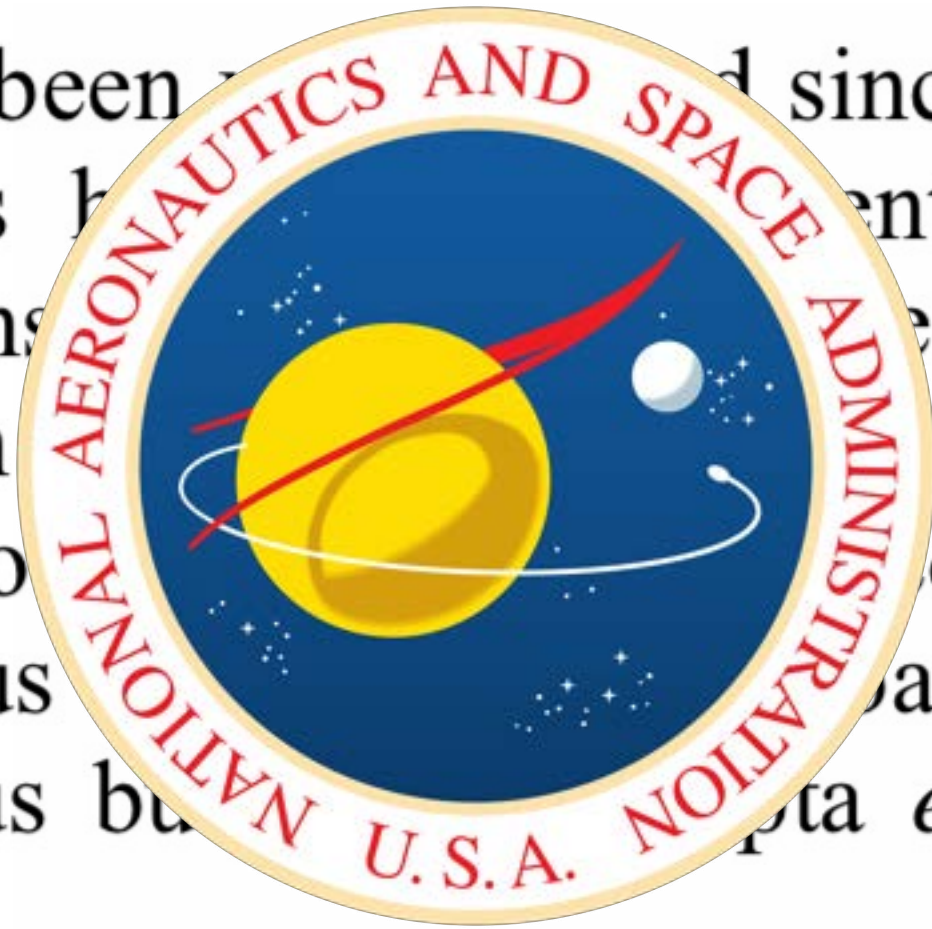


> Biotechnol J. 2012 Nov;7(11):1412-7. doi: 10.1002/biot.201200177. Epub 2012 Oct 2.

Photosynthetic efficiency and rate of CO2 assimilation by Arthrospira (Spirulina) platensis continuously cultivated in a tubular photobioreactor

Marcelo Chuei Matsudo [1], Raquel Pedrosa Bezerra, Sunao Sato, Attilio Converti, João Carlos Monteiro de Carvalho

Affiliations + expand

PMID: 22933335 DOI: 10.1002/biot.201200177

> Phys Rev Lett. 2019 Apr 26;122(16):161601. doi: 10.1103/PhysRevLett.122.161601.

Cherenkov Radiation from the Quantum Vacuum

Alexander J Macleod [1], Adam Noble [1], Dino A Jaroszynski [1]

Affiliations + expand

PMID: 31075012 DOI: 10.1103/PhysRevLett.122.161601

Abstract

A charged particle moving through a medium emits Cherenkov radiation when its velocity exceeds the phase velocity of light in that medium.

Review > Proc Math Phys Eng Sci. 2017 May;473(2201):20160822.

doi: 10.1098/rspa.2016.0822. Epub 2017 May 31.

Quantum effects in biology: golden rule in enzymes, olfaction, photosynthesis and magnetodetection

Jennifer C Brookes [1]

Affiliations – collapse

Affiliation

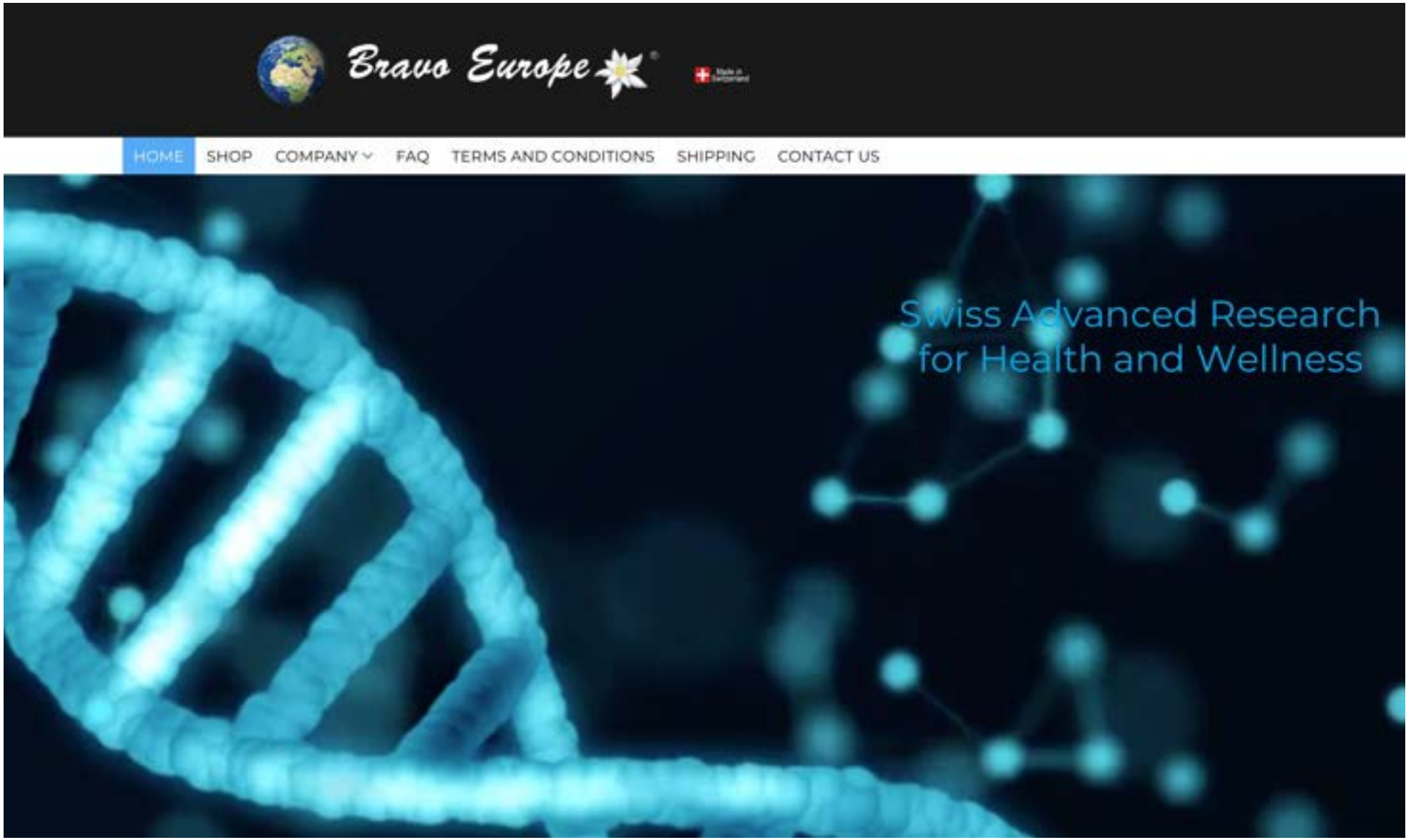
1 London Centre for Nanotechnology, University College London, 17-19 Gordon Street, London WC1E 6BT, UK.

In essence, it appears **certain photons were simultaneously hitting and missing photosynthetic molecules within the bacteria**—a hallmark of entanglement. “Our models show that this phenomenon being recorded is a signature of entanglement between light and certain degrees of freedom inside the bacteria,” she says. Oct 29, 2018

https://www.scientificamerican.com › article › schroeding...

"Schrödinger's Bacterium" Could Be a Quantum Biology ...

2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Rationale for the Co-Culture of Arthrospira Platensis with Probiotics

The rationale for the use of Arthorspira platensis in co-culture with the probiotic blend described above consists in the following considerations. Ionizing

The probiotic blend is unique because scientific research published in peer-reviewed articles demonstrated that it has a powerful detoxifying effect.

regulates expression of *uvr* genes upon exposure to radiations (Badri *et al.*, 2015). Arthrospira platensis is known to protect against radiation sickness (Mazo *et al.*, 1999) as well as against the damage inflicted by electromagnetic radiations through DNA repair (*uvr* gene up-regulation) (Qishen *et al.*, 1989).

- Glyphosate
- 2-hydroxyisobutyric acid
- Perchlorate
- N-acetyl-S-(2-carbamoylethyl)cysteine
- N-acetyl(propyl)cysteine
- 2-hydroxyethyl mercapturic acid
- Diethylphosphate
- 3-Phenoxybenzoic acid
- Cadmium
- Lead
- Barium

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Research Article Open Access

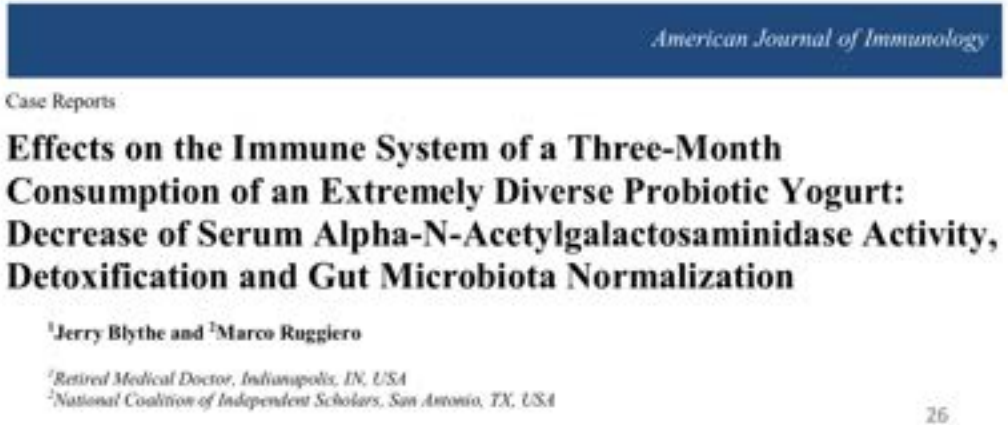
Case Report: Intermittent fasting and probiotic yogurt consumption are associated with reduction of serum alpha-N-acetylgalactosaminidase and increased urinary excretion of lipophilic toxicants

Blythe J, Marco R and Pacini S[1]

[1]Retired Medical Doctor, Indianapolis, IN, USA

[2]Silver Spring Sagl, Arzo-Mendrisio, Switzerland

These are the articles demonstrating that the probiotic blend removes all the toxicants listed above



American Journal of Immunology

Case Reports

Effects on the Immune System of a Three-Month Consumption of an Extremely Diverse Probiotic Yogurt: Decrease of Serum Alpha-N-Acetylgalactosaminidase Activity, Detoxification and Gut Microbiota Normalization

[1]Jerry Blythe and [2]Marco Ruggiero

[1]Retired Medical Doctor, Indianapolis, IN, USA

[2]National Coalition of Independent Scholars, San Antonio, TX, USA

Rationale for the Co-Culture of Arthrospira Platensis with Probiotics

The rationale for the use of Arthorspira platensis in co-culture with the probiotic blend described above

The probiotic blend is unique because scientific research published in peer-reviewed articles demonstrated that it has more than 300 different microbial DNA sequences that include probiotic microbes, phages and plasmids.

known to protect against radiation sickness (Mazo *et al.*, 1999) as well as against the damage inflicted by electromagnetic radiations through DNA repair (*uvr* gene up-regulation) (Qishen *et al.*, 1989).

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Journal of Neurology & Stroke

Research Article

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Phage composition of a fermented milk and colostrum product assessed by microbiome array; putative role of open reading frames in reference to cell signaling and neurological development

Abstract

Bacteriophages (phages), Earth's most numerous biological entities, are natural constituents of alimentary matrices; in this study we describe the characterization of phage populations in a product obtained by fermentation of bovine milk and colostrum. Such characterizations were achieved using a microarray consisting of a chip covered in short DNA sequences that are specific to certain target organisms for a total of approximately 12,000 species. The only viruses evidenced by the array belonged to Siphoviridae, the largest phage family that targets bacteria and archea. The array yielded 27 iterations corresponding to a unique target. We discuss the putative role of some open reading frames of these phages in conferring health-supporting properties with particular reference to cells signaling and neurological development. We also describe the *in vitro* interaction of this fermented product with alpha-N-acetylgalactosaminidase, an enzyme whose activity in serum is elevated in neurodevelopmental disorders.

Keywords: phages, milk, colostrum, RAD52, DNA repair, genome stability, autism

Volume 10 Issue 2 - 2020

Stefania Pacini, Marco Ruggiero
Silver Spring Sagl, Arzo-Mendrisio, Switzerland

Correspondence: Stefania Pacini, MD, PhD. Silver Spring Sagl, Via Raimondo Rossi 24, Arzo-Mendrisio 6864, Switzerland, Email info@bravo-europe.com

Received: February 20, 2020 | **Published:** April 30, 2020

These are the articles demonstrating such a great biodiversity

ISSN: 2638-2024

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Madridge Journal of Immunology

Research Article

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Natural Plasmids in a Swiss Fermented Milk and Colostrum Product assessed by Microbiome Array

Stefania Pacini* and **Marco Ruggiero**
Silver Spring Sagl, Arzo-Mendrisio, Switzerland

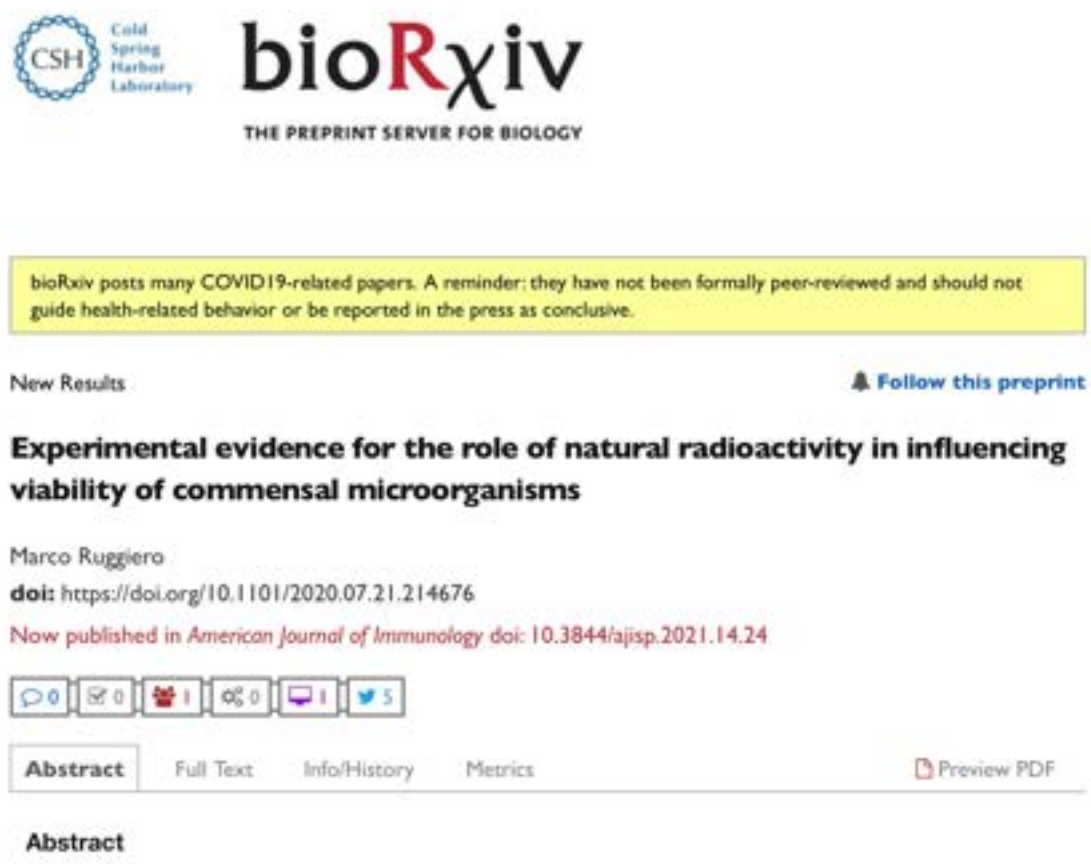
Table 1 Phage composition of the product

Species	*Target Description*	*Conditional Score*	*Initial Score*	*Probes Expected*	*Probes Observed*	%
Lactococcus phage BM13	Lactococcus phage BM13	175.56	175.56	67	49	73.13
Lactococcus phage P335 sensu lato	Lactococcus phage Q33	158.28	158.28	69	46	66.66
Leuconostoc phage phiLN03	Leuconostoc phage phiLN03	187.97	187.97	93	57	61.29
Leuconostoc phage phiLN04	Leuconostoc phage phiLN04	180.09	180.09	91	55	60.43
Leuconostoc phage phiLN12	Leuconostoc phage phiLN12	194	194	100	60	60
Lactococcus phage ul36	Lactococcus phage ul36	115.08	115.08	60	36	60
Lactococcus phage ul36	Lactococcus phage ul36.k1	111.18	111.18	59	35	59.32
Lactococcus phage Tuc2009	Lactococcus phage Tuc2009	115.2	115.2	65	37	56.92
Streptococcus phage TP-778L	Streptococcus phage TP-778L complete genome	129.83	129.83	74	42	56.75
Lactococcus phage ul36	Lactococcus phage ul36.k1t1	17.94	56.8	34	19	55.88
Lactococcus phage phiLC3	Lactococcus phage phiLC3	88.77	104.49	61	34	55.73
Leuconostoc phage phiLN6B	Leuconostoc phage phiLN6B	160.05	160.05	92	51	55.43

Citation: Pacini S, Ruggiero M. Phage composition of a fermented milk and colostrum product assessed by microbiome array; putative role of open reading frames in reference to cell signaling and neurological development. *J Neurol Stroke.* 2020;10(2):80–90. DOI: 10.15406/jnsk.2020.10.00416

Lactococcus phage ul36 encodes a protein, Sak, that is homologous to a human recombination protein, RAD52, that plays a crucial role in DNA repair, genome stability and prevention of carcinogenesis.[26,27]Such an homology is present at the amino acid, phylogenic, functional, and structural levels and raises the possibility of a common origin with Sak being an ancestor of RAD52.

Mechanisms of entanglement and transfer of radiation resistance between Arthrospira, Lactococcus, phages, and human cells



In Praesidium entanglement occurs between the electron clouds of amino acid sequences with a significant degree on similarity, with particular reference to hydrophobic residues since quantum entanglement and transfer of resistance to radiation between living organisms occurs in water (Mothersill *et al*., 2018).

Fig. 9. Results of alignment between UvrABC system protein B (uvrB gene) of Arthrospira platensis (first line), UvrABC system protein B (uvrB gene) of Lactococcus lactis subsp. lactis (second line), human RAD23 (third line), and Lactococcus phage ul36 ORF252 (fourth line). Residues showing significant degree of similarity are highlighted in grey. Hydrophobic residues are highlighted in indigo.

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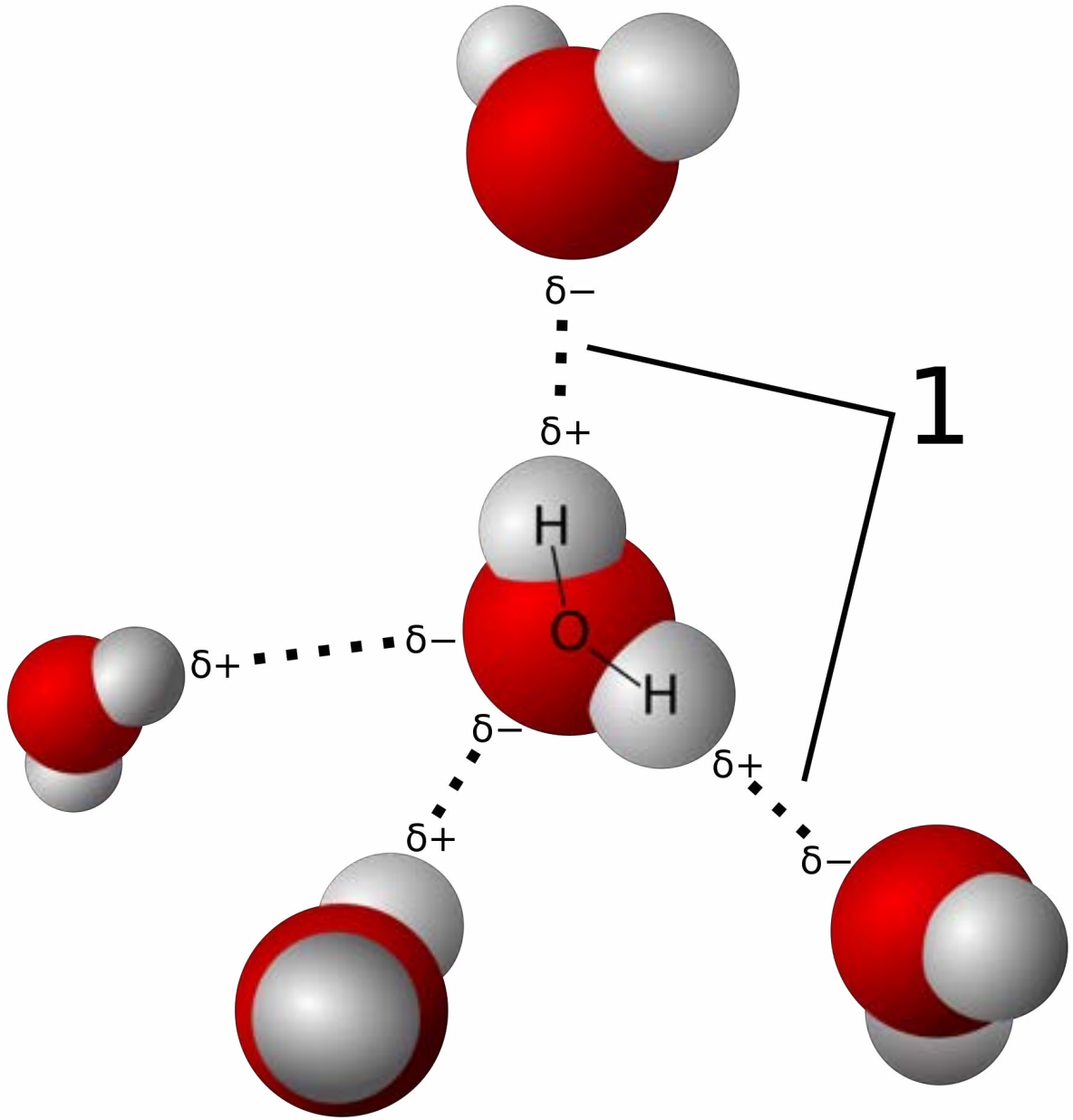


> Dose Response. 2018 Feb 15;16(1):1559325817750067. doi: 10.1177/1559325817750067. eCollection Jan-Mar 2018.

Biological Entanglement-Like Effect After Communication of Fish Prior to X-Ray Exposure

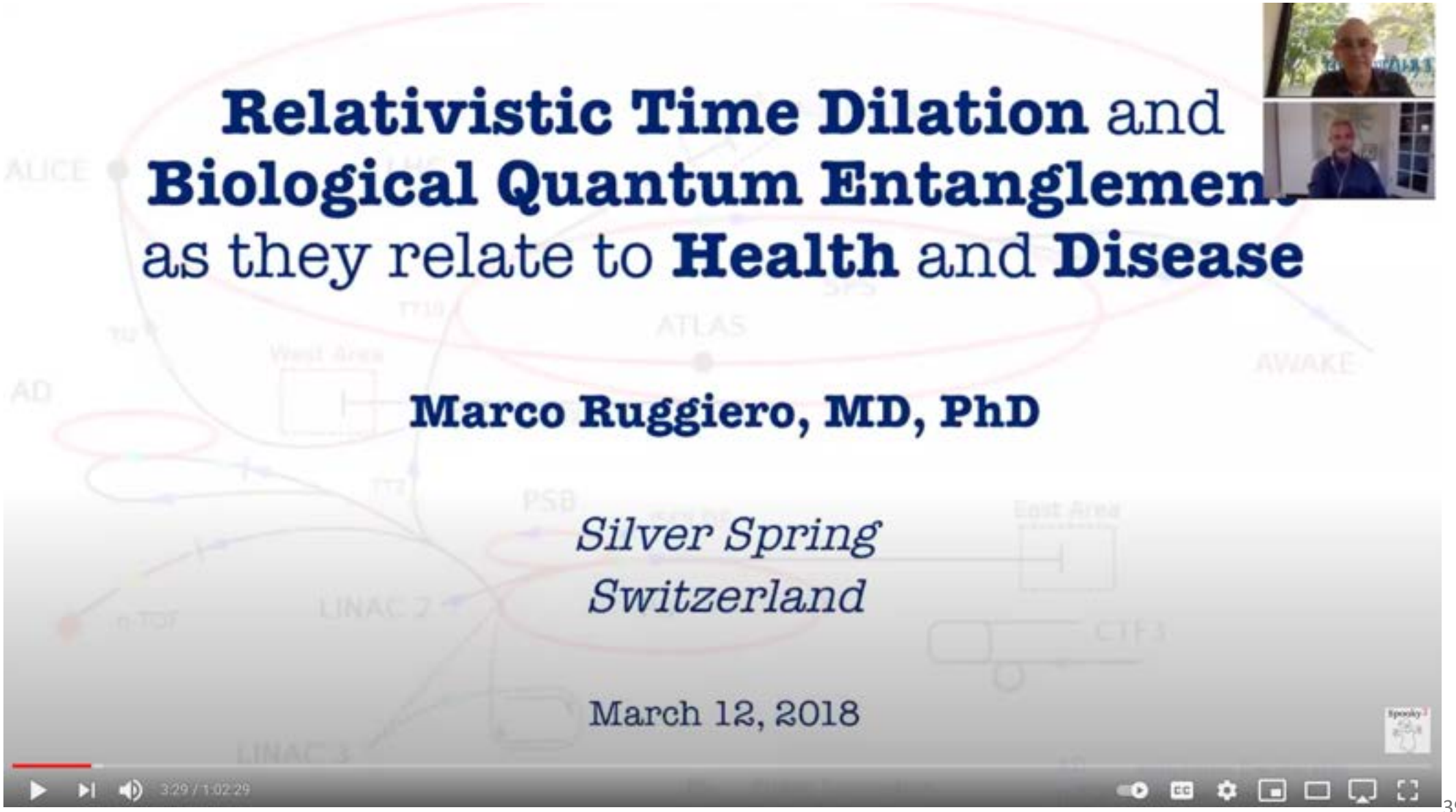
Carmel Mothersill [1], Richard Smith [1], Jiaxi Wang [2], Andrej Rusin [1], Cris Fernandez-Palomo [1], Jennifer Fazzari [1], Colin Seymour [1]

Affiliations – collapse

Affiliations

1 McMaster University, Hamilton, Ontario, Canada.
2 Department of Chemistry, Mass Spectrometry Facility, Queen's University, Kingston, Ontario, Canada.

https://www.youtube.com/watch?v=AFFulRh6cG0



Leonardo da Vinci visited the source to sample the town's “miraculous” water

WARNING: DO NOT TRY THIS AT HOME, IT WILL NOT WORK

4

Rationale for the use of Equisetum Arvense

Equisetum arvense (field horsetail) is a perennial plant from the family of Equisetaceae. Flavonoids, phenolic acids, alkaloids, phytosterols, tannins and triterpenoids are among the most widely known phytochemical compounds of Equisetum arvense. Several studies described different health promoting properties of Equisetum arvense such as anti-oxidant, anti-inflammatory, anti-bacterial, anti-fungal, blood vessel relaxant, neuro-and cardio-protective and anti-proliferative properties (Pallag *et al*., 2018).

The rationale for using Equisetum arvense in the co-culture described above is based on two properties of the plant. 1. Its anti-oxidant properties that counteract oxidative stress caused by radiations, thus synergizing with Arthrospira platensis and with phages of the probiotic blend resulting in inhibition of excessive reactive oxygen species formation 2. The high content of silica that is arranged in surface fractals in the stem and leaf of Equisetum. Silica from Equisetum arvense plays a fundamental role in the co-culture as it favors horizontal gene transfer between radio-resistant Arthrospira platensis and the microbes of the probiotic blend.

DOES IT WORK?

In silico observations and preliminary results on subjects exposed to common electromagnetic fields under real-life conditions, support the hypothesis that co-cultures of radiation-resistant cyanobacteria and probiotics
may confer protection against the harmful effects of electromagnetic fields.

Marco Ruggiero / American Journal of Immunology 2021, Volume 17: 14.24
DOI: 10.3844/ajisp.2021.14.24

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Microbiome and Autism

Therapy Treatments

Marco Ruggiero, MD, has a PhD in Molecular Biology and a specialization in Diagnostic Radiology. He served in the NATO Army as Medical Officer. In 1984-1986 he worked at the Laboratory of Cellular and Molecular Biology of Burroughs Wellcome Co, where he published a paper in PNAS sponsored by Nobel Laureate Sir John Vane. He worked at the National Cancer Institute of the NIH where he performed research on oncogenes and signal transduction. He was then Professor of Molecular Biology at the University of Firenze until his retirement in 2014. He collaborated with the late Dr. Bradstreet on the diagnostics and therapeutics for autism and they published two papers in major peer-reviewed journals. One of these proposes a breakthrough hypothesis for autism. The paper is in the open domain at https://www.ncbi.nlm.nih.gov/pubmed/26733797.

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> Pathophysiology. 2013 Jun;20(3):191-209. doi: 10.1016/j.pathophys.2013.08.001. Epub 2013 Oct 4.

Autism and EMF? Plausibility of a pathophysiological link - Part I

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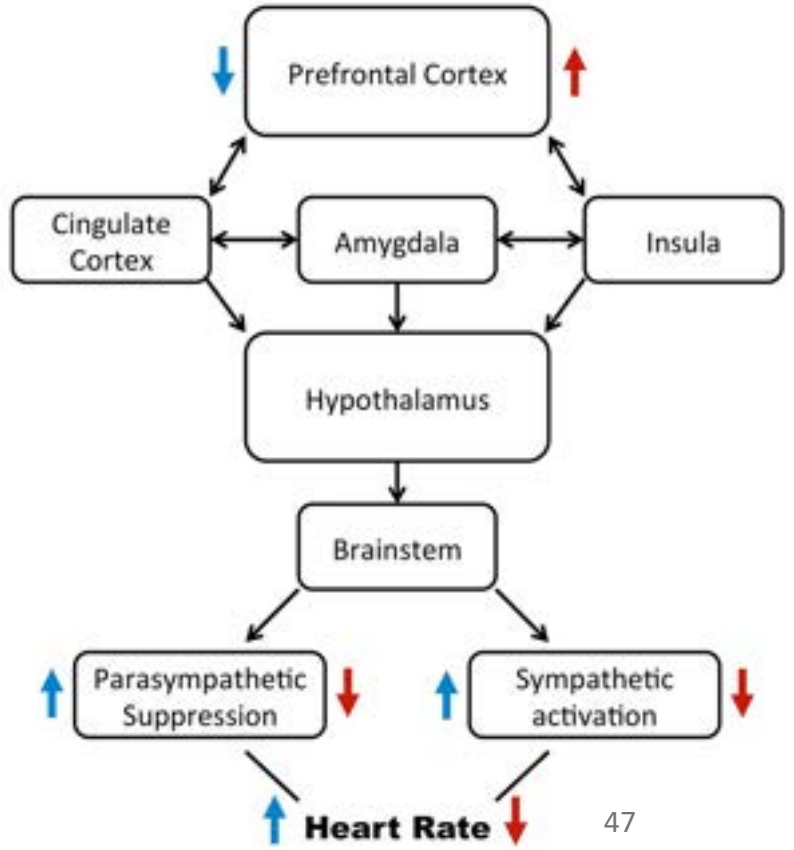
PMID: 24095003 DOI: 10.1016/j.pathophys.2013.08.001

EMF affect Heart rate variability (HRV)

- **Heart rate variability** is the physiological phenomenon of variation in the time interval between heartbeats.
- Reduced HRV is a predictor of mortality.
- A range of conditions is associated with lower HRV, including congestive heart failure, diabetic neuropathy, post–cardiac-transplant depression, susceptibility to SIDS and poor survival in premature babies, fatigue severity in chronic fatigue syndrome.
- HRV decreases under conditions of acute time pressure, emotional strain and elevated anxiety state.
- High HRV reflects increased parasympathetic activity; low HRV reflects increased sympathetic activity.



Cardiol Rev. Mar-Apr 2004;12(2):85-96. doi: 10.1097/01.crd.0000094029.10223.2f.

Magnetism and cardiac arrhythmias

Benjamin J Scherlag [1], William S Yamanashi, Yuemei Hou, Jerry I Jacobson, Warren M Jackman, Ralph Lazzara

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PMID: 14766023 DOI: 10.1097/01.crd.0000094029.10223.2f

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Rev Environ Health. 2013;28(2-3):75-84. doi: 10.1515/reveh-2013-0004.

Radiation from wireless technology affects the blood, the heart, and the autonomic nervous system

Magda Havas

PMID: 24192494 DOI: 10.1515/reveh-2013-0004

Journal of the Autonomic Nervous System
Volume 59, Issue 3, 5 July 1996, Pages 91-97

Journal of the Auton...

Research paper

Heart rate variability in workers exposed to medium-frequency electromagnetic fields

Alicja Bortkiewicz, Elzbieta Gadzicka, Marek Zmyślony

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https://doi.org/10.1016/0165-1838(96)00009-4

The effects of the duration of mobile phone use on heart rate variability parameters in healthy subjects

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in vivo *32*: 1145-1153 (2018)
doi:10.21873/invivo.11357

Cellular Phone Irradiation of the Head Affects Heart Rate Variability Depending on Inspiration/Expiration Ratio

SZABOLCS BÉRES[1], ÁDÁM NÉMETH[1], ZÉNÓ AJTAY[1], ISTVÁN KISS[2], BALÁZS NÉMETH[2] and LÁSZLÓ HEJJEL[1]

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RESEARCH ARTICLE

Application of Ultrasonography to Neuro-COVID-19

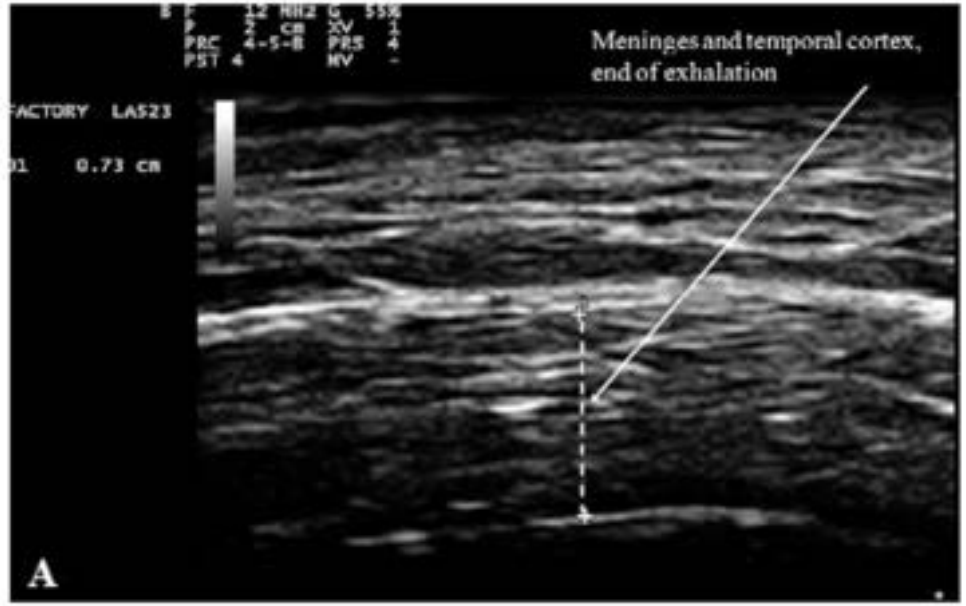
› Marco Ruggiero

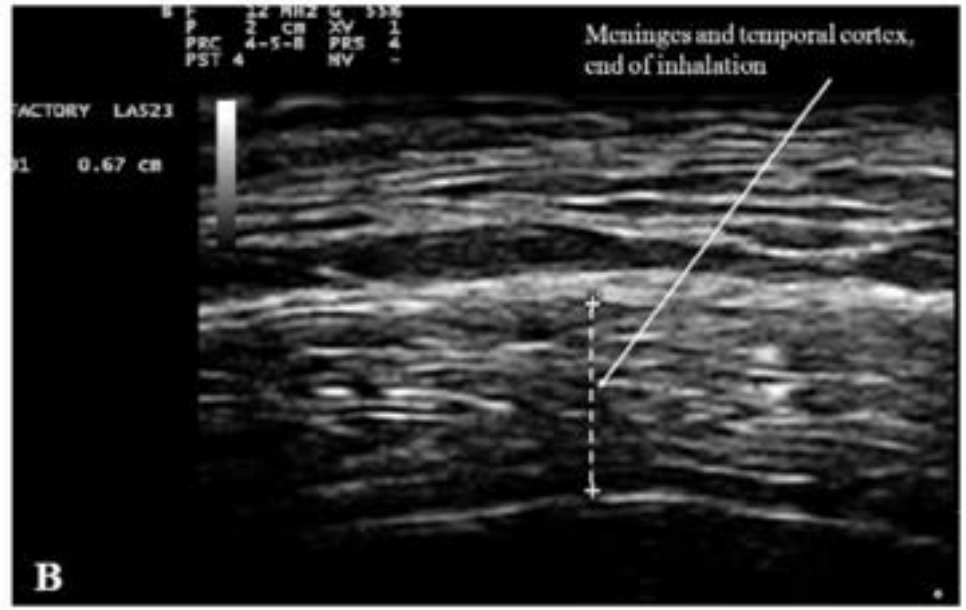
DOI: 10.21203/rs.3.rs-776630/v1 Download PDF

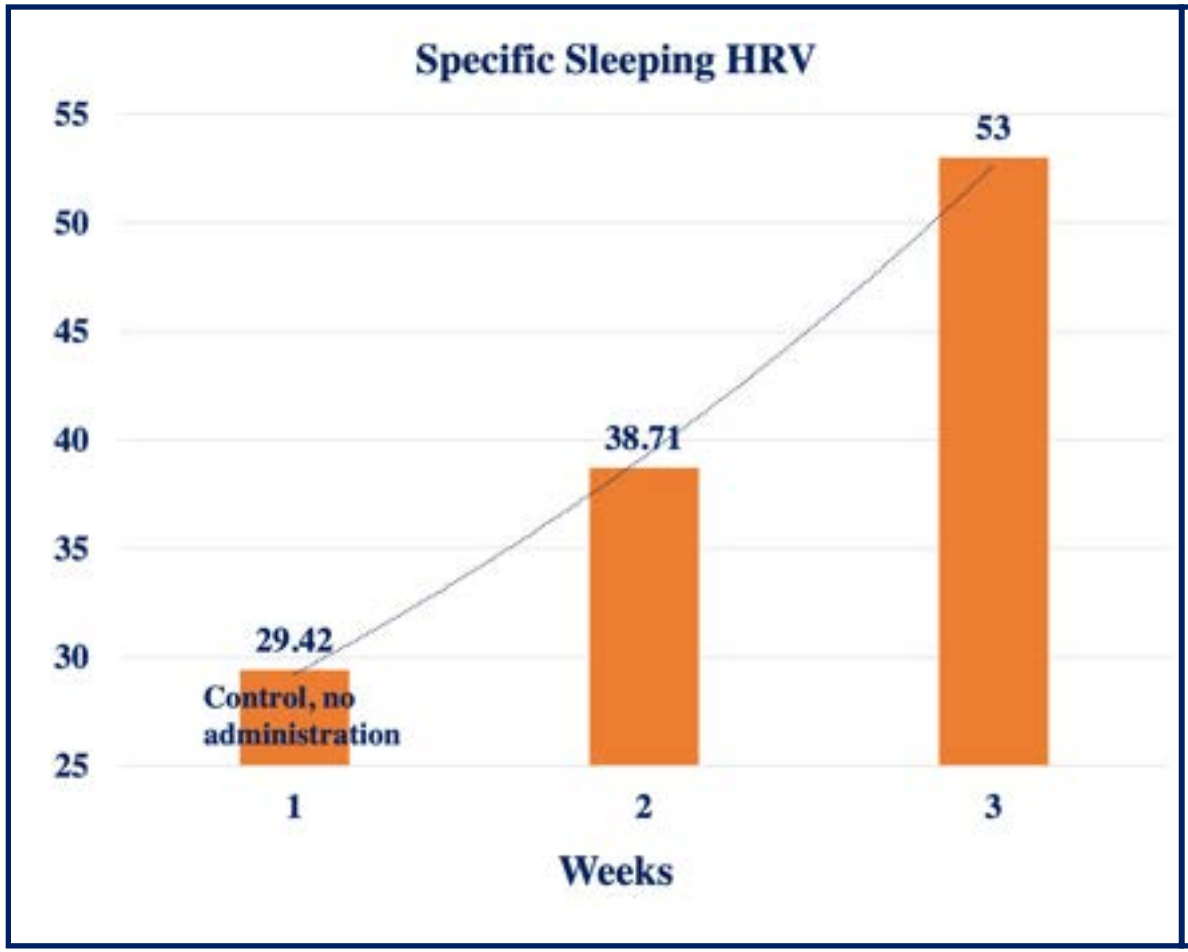
DECLARATIONS: View author declarations.

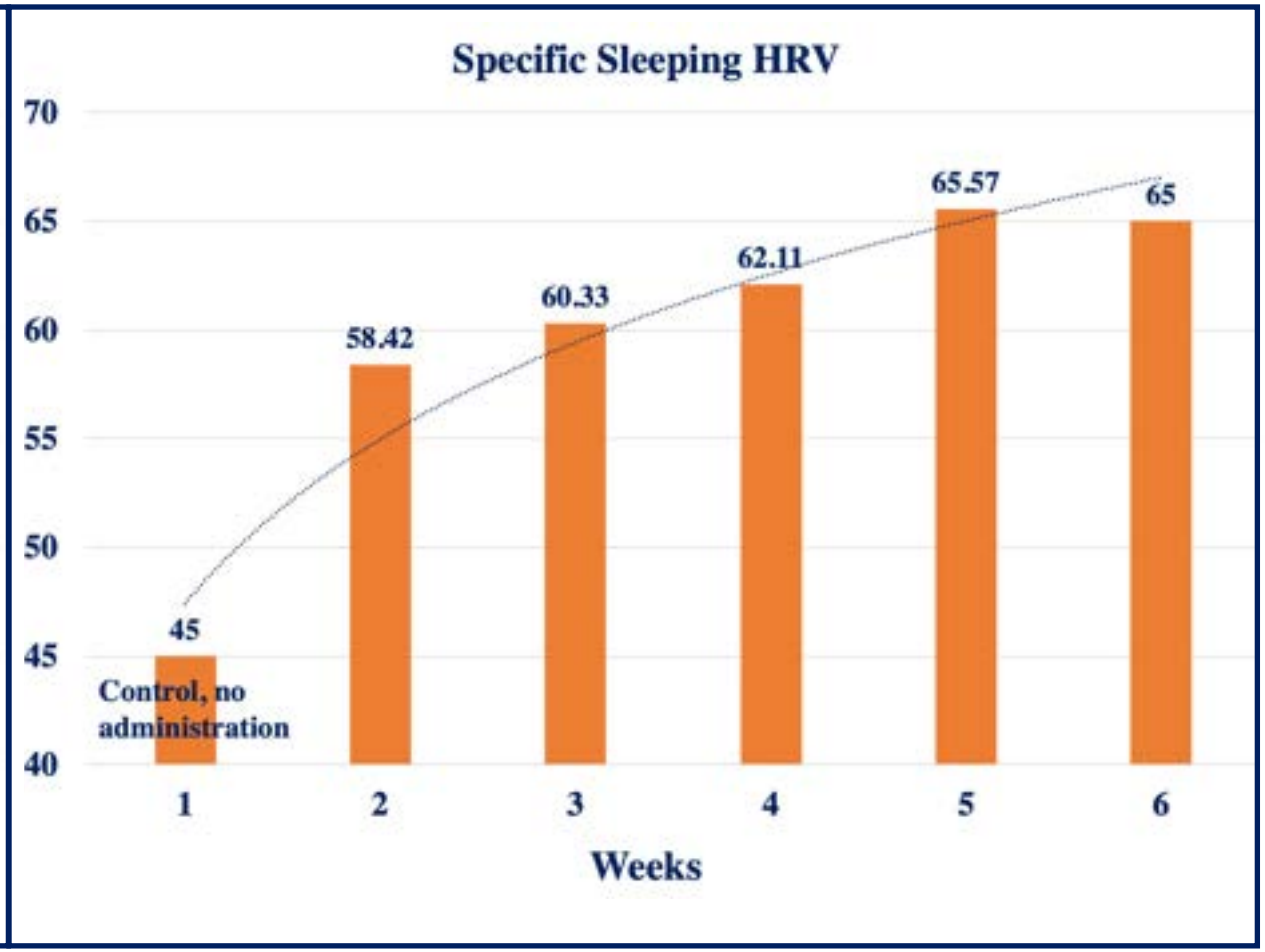
Abstract

Neurological and psychiatric symptoms are frequently observed in COVID-19, the disease caused by severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), and the term "Neuro-COVID-19" has been coined to indicate the plethora of short- and long-term neurologic and psychiatric manifestations. In a significant percentage of cases, neuro-psychiatric symptoms persist after recovery and long-term sequelae have been reported. SARS-CoV-2 can infect the brain through different routes and the damage can be direct, that is due to the virus itself, or indirect, that is associated with abnormal immune responses, inflammation, and hypoxia. Studies of brain specimens obtained from autopsy demonstrated the presence of the virus in a minority of cases and this leads to hypothesize that SARS-CoV-2 may hide in sanctuary sites in the central nervous system in analogy with what observed for HIV. The existence of sanctuary sites for SARS-CoV-2 has the potential to decrease the efficacy of antiviral therapies or vaccination and may even prevent complete eradication of SARS-CoV-2 from the infected organism. In 2017, a diagnostic and therapeutic procedure was proposed with the goal of identifying and treating pathogens hiding in sanctuaries that elude diagnosis and therapy. This procedure is based on clinical evaluation, diagnostic ultrasonography, therapeutic ultrasounds, and laboratory analyses. Here, it is demonstrated that application of ultrasonography to Neuro-COVID-19 requires a specific adaptation that takes into account brain movements synchronous with breathing as well as the sensitivity of SARS-CoV-2 to ultrasounds.









These subjects, who were exposed to common environmental electromagnetic fields (house appliances, wiring, wireless communication devices), observed significant increase of Heart Rate Variability (HRV) associated with regular consumption of the supplement.

DOI: 10.3844/ajisp.2021.14.24

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Based on 16 reviews

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Interesting approach
It does seem to be making me less sensitive to EMF exposures.

P ★★★★★ 06/12/2021 about Praesidium 3 months supply
Peter S

Most interesting and credible approach
This is the most interesting and credible approach to help reduce the health effects of #wireless and #EMF that I have seen. Probiotics with high radiation resistance that help to improve heart rate variability (#HRV), #sleep, #detox and DNA repair and #cancer radiation therapy. My body has been feeling stronger after taking these for the last week. (via Facebook https://www.facebook.com/1741933195951 18/posts/1553058025041967)

J ★★★★★ 06/10/2021 about Praesidium 3 months supply
Julie K

Nutritional Therapy Practitioner
Nutritional Therapy Practitioner based in Australia. I felt the benefits within a day of taking presidium. Will be recommending to my patients.

S ★★★★★ 06/07/2021 about Praesidium 3 months supply
Sara P

Deep sleep
I have been taking the Praesidium, recommended by a friend, for a week now. I noticed my sleep has really improved. Normally when we go to our Beach House up North, I have this amazing deep sleep. I have noticed the same amazing quality sleep, since taking the Praesidium. So happy I found this.

The Invention of Praesidium

This page contains a speech given by the inventor of Praesidium, Dr Marco Ruggiero, outlining the reasons why he invented Praesidium, how it works, and the benefits of protecting our bodies from EMF fields.

The full speech can be downloaded here.

Section headings:

1. Introducing Dr Ruggiero
2. The Invention of Praesidium
3. How Praesidium works
4. Biological Quantum Entanglement
5. Health Impacts of EMF
6. Biological effects of 5G
7. Praesidium supports health
8. Hypersensitivity to EMF
9. Praesidium; your inner shield

INTRO | INVENT | HOW | QUANT | EMF | 5G | HEALTH | SENSE | SHIELD

Introducing Dr Ruggiero

Let me introduce myself and let me describe my research experience on the biological effects of electromagnetic fields. I was born in Firenze, Florence, Italy in 1956 and in this city I graduated in 1980 from the School of Medicine.


Thank you

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