

S.A.R.S. COV-2 Spike Protein Derivates – ACE LINK - Graphene and Wireless Communications Radiation : Epidemiological -Chemico Physical and Toxicological Aspects -Scientific Evidence and other Interesting Documents

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Abstract: Aim of this work is to search and analyze scientific literature involved in the effect played by wireless communication radiation in the S.A.R.S.-COV-2 spike protein derivates pathological process. This make possible to verify if it is necessary to be considered as a toxicological co-factor Various published evidence finded graphene impurity in vial some C.O.V.I.D.-19 vaccine (P. Campra) or in vaccinated blood (Giovannini et al).

But It is relevant to deeply investigate this phenomena using scientific evidence and other interesting documents (scientific?) from independed researcher useful to generate hypotesys to be confirmed . Crucial also to verify the subpopulation distribution of pathological event in vaccinated like pericarditis or central nervous system thrombosys as well as the use of some technological tool like smartphone in the various age classes. This method make possible to generate hypotesys to be better verified.

Related the profile of some toxicological aspect of some C.O.V.I.D. -19 vaccine and in specfic way to the rare effect like pericarditis or trombosys are reported in this work some relevant literature involved in the effect played by the SPIKE PROTEINS and its link on epithelial tissue ACE receptor , the Graphene (if present) and under some magnetic field or electrical condition. An experimental hypotesys is submitted to the reseacher in order to produce a global conclusion of toxicological interest

In this work is used a neutral approch without pre-concept.

Keywords: Wireless communications radiation [W.C.R.], spike protein, ACE receptor , temperature, epidemiology, Publich health, C.O.V.I.D.-19 vaccine, graphene, Electric Charge, electromagnetic field, magnetism , pathology, toxicology, Sinergy

REFERENCES

- [1]. J Clin Transl Res. 2021 Oct 26; 7(5): 666–681., Published online 2021 Sep 29., Evidence for a connection between coronavirus disease-19 and exposure to radiofrequency radiation from wireless communications including 5G, Beverly Rubik and Robert R. Brown
- [2]. Biochemistry, Cell and Molecular Biology, The toxic effect of mobile phone radiation on rabbit organs, Shudong Zhu Icon, Yan Zhu, Hao Li, Doudou Zhang & Dianzheng Zhang 19 May 2020 <https://doi.org/10.1080/26895293.2020.1763481>
- [3]. Manmade Electromagnetic Fields and Oxidative Stress—Biological Effects and Consequences for Health, by David Schuermann and Meike Mevissen, Int. J. Mol. Sci. 2021, 22(7), 3772; <https://doi.org/10.3390/ijms22073772>, 6 April 2021
- [4]. Anat Histol Embryol . 2016 Jun, Effect of Mobile Phone Radiation on Cardiovascular Development of Chick Embryo, W Ye , F Wang , W Zhang , N Fang , W Zhao , J Wang , DOI: 10.1111/ahc.12188
- [5]. Environ Res. 2019 Apr, Real-world cell phone radiofrequency electromagnetic field exposures, Stephen Wall , Zhong-Min Wang , Thomas Kendig , Dina Dobraca , Michael Lipsett, DOI: 10.1016/j.envres.2018.09.015
- [6]. Lai, YF., Wang, HY. & Peng, RY. Establishment of injury models in studies of biological effects induced by microwave radiation. Military Med Res 8, 12 (2021). <https://doi.org/10.1186/s40779-021-00303-w>
- [7]. Int J Mol Sci. 2021 Apr; 22(7): 3772., Published online 2021 Apr 6. doi: 10.3390/ijms22073772, Manmade Electromagnetic Fields and Oxidative Stress—Biological Effects and Consequences for Health, David Schuermann, and Meike Mevissen
- [8]. Bratisl Lek Listy . 2016;117(11):665-671. doi: 10.4149/BLL_2016_128., The effects of electromagnetic radiation (2450 MHz wireless devices) on the heart and blood tissue: role of melatonin, N Gumral, M Saygin, H Asci, A C Uguz, O Celik, D K Doguc, H B Savas, S Comlekci, DOI: 10.4149/BLL_2016_128
- [9]. Moreira, R.A.; Guzman, H.V.; Boopathi, S.; Baker, J.L.; Poma, A.B. Characterization of Structural and Energetic Differences between Conformations of the S.A.R.S.-CoV-2 Spike Protein. Materials 2020, 13, 5362. <https://doi.org/10.3390/ma13235362>
- [10]. Georgiou, C.D.; Kalaitzopoulou, E.; Skipitari, M.; Papadea, P.; Varemменou, A.; Gavriil, V.; Sarantopoulou, E.; Kollia, Z.; Cefalas, A.-C. Physical Differences between Man-Made and Cosmic Microwave Electromagnetic Radiation and Their Exposure Limits, and Radiofrequencies as Generators of Biotoxic Free Radicals. Radiation 2022 <https://doi.org/10.3390/radiation2040022>
- [11]. Could Microwave Irradiation Cause Misfolding of Peptides?, Martin Gladovic, Chris Oostenbrink, and Urban Bren
- [12]. Cite this: J. Chem. Theory Comput. 2020, March 12, 2020 <https://doi.org/10.1021/acs.jctc.9b01104>
- [13]. Mohril S, Sankhla MS, Sonone SS, et al. Adverse impacts of mobile phone tower radiation on human health. Int J Radiol Radiat Ther. 2020;7(6):163-166. DOI: 10.15406/ijrrt.2020.07.00284
- [14]. Lancet. 2022 Jun 11, Risk of myocarditis and pericarditis after the C.O.V.I.D.-19 mRNA vaccination in the USA: a cohort study in claims databases, Hui-Lee Wong , Mao Hu , Cindy Ke Zhou , Patricia C Lloyd , Kandace L Amend , Daniel C Beachler , Alex Secora , Cheryl N McMahonill-Walraven , Yun Lu , Yue Wu , Rachel P Ogilvie , Christian Reich , Djeneba Audrey Djibo , Zhiruo Wan , John D Seeger , Sandia Akhtar , Yixin Jiao , Yoganand Chillarige , Rose Do , John Hornberger , Joyce Obidi , Richard Forshee , Azadeh Shoaibi , Steven A Anderson , DOI: 10.1016/S0140-6736(22)00791-7
- [15]. Comparative Study Vaccine. 2022 Jul 30;40(32):4663-4671. doi: 10.1016/j.vaccine.2022.05.048. Epub 2022 May 25., Myocarditis and/or pericarditis risk after mRNA C.O.V.I.D.-19 vaccination: A Canadian head to head comparison of BNT162b2 and mRNA-1273 vaccines, Natalia Abraham , Sarah Spruin , Tanya Rossi , Bruce Fireman , Joseline Zafack , Christine Blaser , Amanda Shaw , Kimberley Hutchings , Susanna Ogunnaik-Cooke, DOI: 10.1016/j.vaccine.2022.05.048
- [16]. J. of Antimicrobial Agents ISSN: 2472-1212 Research Article - (2021) Volume 7, Issue 4, Spike S.A.R.S.-COV-2 Protein as Procoagulant Factor and Vaccine Class Effect Hypothesis, Luisetto M, Naseer Al Mukhtar, Tarro G, Farhan Ahmad Khan, Khaled Edbey, Gamal Abdul Hamid, Mashori G R, Nili B.A, Fiazza C, Yesvi R, Jameel Ahmad and Latyshev O. Y

- [17]. Luisetto M, Khaled E, Hamid GA, Tarro G, Ahmadabadi NB, Cabianca L, et al. Self-Assembling Property of Graphene Derivates Chemico - Physical and Toxicological Implications. Ann Med Case Rep., 2022;4(1):1037.
- [18]. Multicenter Study Eur Radiol. 2022 Jul;32(7):4352-4360. doi: 10.1007/s00330-022-08566-0. Epub 2022 Mar 1.
- [19]. Cardiac magnetic resonance imaging of myocarditis and pericarditis following C.O.V.I.D.-19 vaccination: a multicenter collection of 27 cases
- [20]. Emanuele Angelo Di Dedda , Andrea Barison , Giovanni Donato Aquaro , Tevfik F Ismail , Alina Hua , Cesare Mantini , Fabrizio Ricci , Gianluca Pontone , Alessandra Volpe , Francesco Secchi , Paolo Di Renzi , Luigi Lovato , Fabio Niro , Carlo Liguori , Chiara De Biase , Lorenzo Monti , Antonio Cirò , Riccardo Marano , Luigi Natale , Eleonora Moliterno , Antonio Esposito , Davide Vignale , Riccardo Faletti , Marco Gatti , Michele Porcu , Luca Saba , Cristina Chimenti , Nicola Galea , Marco Francone
- [21]. Biotechnology to Combat C.O.V.I.D.-19, OPEN ACCESS PEER-REVIEWED CHAPTER, The Link between Electrical Properties of C.O.V.I.D.-19 and Electromagnetic Radiation, Awaad K. Al Sarkhi, March 14th, 2021 DOI: 10.5772/intechopen.96815
- [22]. Case Reports J Neuroradiol. 2022 Nov;49(6):428-430. doi: 10.1016/j.neurad.2022.03.011. Epub 2022 Apr 2. Reversible neurological and brain MRI changes following C.O.V.I.D.-19 vaccination: A case report, Anuj Rastogi , Arina Bingeliene , Antonio P Strafella , David F Tang-Wai , Peter E Wu , Daniel M Mandell DOI: 10.1016/j.neurad.2022.03.011
- [23]. Elsevier Public Health Emergency Collection, JACC Cardiovasc Imaging. 2022 Oct; 15(10): 1821–1824., Published online 2022 Mar 16. doi: 10.1016/j.jcmg.2022.01.008, Cardiac Magnetic Resonance Imaging Midterm Follow Up of C.O.V.I.D.-19 Vaccine–Associated Myocarditis, João L. Cavalcante, Kirsten E. Shaw, Mario Gössl
- [24]. Appl Surf Sci. 2022 Mar 15;578:151934. doi: 10.1016/j.apsusc.2021.151934. Epub 2021 Nov 27., Insights into the conformation changes of S.A.R.S.-CoV-2 spike receptor-binding domain on graphene, Jianbin Du , Chunmei Yang , Xiangyun Ma , Qifeng Li, DOI: 10.1016/j.apsusc.2021.151934
- [25]. Comput Sci Eng. , 2020 Aug 11. doi: 10.1109/MCSE.2020.3015511, Revealing the Mechanism of S.A.R.S.-CoV-2 Spike Protein Binding With ACE2, Yixin Xie, Dan Du, Chitra B. Karki, Wenhan Guo, Alan E Lopez-Hernandez, Shengjie Sun, Brenda Y Juarez, Haotian Li, Jun Wang, and Lin Li
- [26]. Nat Commun. 2021; 12: 5407. Published online 2021 Sep 13. doi: 10.1038/s41467-021-25478-7, The S.A.R.S.-CoV-2 spike protein is vulnerable to moderate electric fields, Claudia R. Arbeitman, Pablo Rojas, Pedro Ojeda-May, and Martin E. Garcia
- [27]. RESEARCH ARTICLE CORONAVIRUS, Conformational dynamics of S.A.R.S.-CoV-2 trimeric spike glycoprotein in complex with receptor ACE2 revealed by cryo-EM, Cong Xu, Yanxing Wang, Caixuan Liu, Chao Zhang, Wenyu Han, Xiaoyu Hong , Yifan Wang , Qin Hong , Shutian Wang , Qiaoyu Zhao, Yalei Wang , Yong Yang , Kaijian Chen , Wei Zheng , Liangliang Kong , Fangfang Wang, Qinyu Zuo , Zhong Huang , Yao Cong, SCIENCE ADVANCES 1 Jan 2021 Vol 7, Issue 1 DOI: 10.1126/sciadv.abe5575