REPORTS AND SCIENTIFIC PUBLICATIONS
ON THE TOXICITY OF GRAPHENE OXIDE TO LIVING ORGANISMS
AND TO HUMANS IN PARTICULAR

1- Graphene oxide generates thrombi:
https://www.researchgate.net/publication/328338305_Graphene_Oxide_Touches_Blood_In_Vivo_Interactions_of_Bio-Coronated_2D_Materials

2- Graphene oxide generates blood coagulation:
https://vu2004.admin.hosting8.ing.udec.cl/Proyectos/investigacion-con-grafeno-con-aplicaciones-hemostaticas/

3- Toxicity of graphene-family nanoparticles: a general review of the origins and mechanisms.
https://particleandfibretoxicology.biomedcentral.com/articles/10.1186/s12989-016- 0168-y

4- Toxicity of graphene in human sperm:
https://francis.naukas.com/2016/08/21/toxicidad-del-grafeno-y-los-nanotubos-de-carbono-en-el-esperma-humano/

5- The dangers of graphene and its side effects on human biology:
https://computerhoy.com/noticias/hardware/peligros-del-grafeno-sus- efectos-secundarios-12591

6- Graphene nanomaterials: synthesis, biocompatibility and cytotoxicity:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6274822/

7- Nanotoxicology: Breathing carbon nanotubes causes pulmonary fibrosis, a cause of lung cancer:
https://francis.naukas.com/2009/10/29/nanotoxicologia-respirar-nanotubos-de- carbono-produce-fibrosis-pulmonar-una-causa-de-cancer-de-pulmon/

8- Safety assessment of graphene-based materials: Focus on human health and the environment:
https://pubs.acs.org/doi/10.1021/acsnano.8b04758#

9- Graphene oxide is detected in the body by specialized cells of the immune system causing the same symptomatology as the alleged "SARSCOV2":
https://www.graphene- info.com/graphene-oxide-detected-body-specialized-cells-immune-system

10- Toxicity of graphene in normal human lung cells:
https://pubmed.ncbi.nlm.nih.gov/21485826/

11- Can nanomaterials induce reproductive toxicity in male mammals?:
https://www.sciencedirect.com/science/article/abs/pii/S0048969720378852

12- Graphene oxide affects the outcome of in vitro fertilization by interacting with the sperm membrane in an animal model:
https://www.sciencedirect.com/science/article/pii/S0008622317312757#undfig1

13- Effects of Nano-Graphene Oxide on Testis, Epididymis and Fertility of Wistar Rats:
https://www.researchgate.net/publication/315776736_Effects_of_Nano-Graphene_Oxide_on_Testis_Epididymis_and_Fertility_of_Wistar_Rats

14- Graphene oxide nano-bio interaction induces inhibition of spermatogenesis and disturbance of fatty acid metabolism in the nematode Caenorhabditis elegans: *https://pubmed.ncbi.nlm.nih.gov/30218681/*

15- Graphene oxide touches blood: *in vivo* interactions of "bio-coronated" 2D materials:
https://pubs.rsc.org/en/content/articlelanding/2019/nh/c8nh00318a#!divAbstract

16- Toxicity of graphene in human sperm and consequences:
https://francis.naukas.com/2016/08/21/toxicidad-del-grafeno-y-los-nanotubos-de-carbono-en-el-esperma-humano/

17- Graphene oxide can induce *in vitro* and *in vivo* mutagenesis (cancer):
https://www.nature.com/articles/srep03469

18- Repeated exposure to aerosolized graphene oxide mediates autophagy inhibition and inflammation in a three-dimensional human airway model:
https://www.sciencedirect.com/science/article/pii/S2590006420300107?via%3Dihub #fig5

19- Single exposure to aerosolized graphene oxide and graphene nanoplatelets did not initiate an acute biological response in a 3D human lung model:
https://www.sciencedirect.com/science/article/pii/S0008622318304706?via%3Dihub #undfig1

20- Physico-chemical properties based on differential toxicity of graphene oxide/reduced graphene oxide in human lung cells mediated by oxidative stress:
https://www.nature.com/articles/srep39548

21- An assessment of the cytotoxic effects of graphene nanoparticles on the epithelial cells of the human lungs:
https://journals.sagepub.com/doi/10.1177/0748233718817180

22- Role of surface charge and oxidative stress in cytotoxicity and genotoxicity of graphene oxide towards human lung fibroblast cells:
https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/jat.2877

23- Toxicity of graphene oxide and multi-walled carbon nanotubes against human cells and zebrafish:
https://link.springer.com/article/10.1007/s11426-012-4620-z

24- An *in vitro* cytotoxicity assessment of graphene nanosheets on alveolar cells:
https://www.sciencedirect.com/science/article/abs/pii/S0169433217335109?via%3Di hub

25- Graphene nanosheets damage the lysosomal and mitochondrial membranes and induce the apoptosis of RBL-2H3 cells:
https://www.sciencedirect.com/science/article/abs/pii/S0048969720327467?via%3Di hub

26- Genotoxicity of graphene nanoribbons in human mesenchymal stem cells:
https://www.sciencedirect.com/science/article/abs/pii/S0008622312009499?via%3Di hub

27- Differential genotoxic and epigenotoxic effects of graphene family nanomaterials (GFNs) in human bronchial epithelial cells:
https://www.sciencedirect.com/science/article/abs/pii/S1383571816300262?via%3Di hub

28- A closer look at the genotoxicity of graphene based materials:
https://iopscience.iop.org/article/10.1088/2515-7639/ab5844

29- DNA Melting and Genotoxicity Induced by Silver Nanoparticles and Graphene:
https://pubs.acs.org/doi/10.1021/acs.chemrestox.5b00052

30- Hydroxylated-Graphene Quantum Dots Induce DNA Damage and Disrupt Microtubule Structure in Human Esophageal Epithelial Cells:
https://academic.oup.com/toxsci/article/164/1/339/4970755

31- Graphene oxide nanosheets induce DNA damage and activate the base excision repair (BER) signaling pathway both *in vitro* and *in vivo*:
https://www.sciencedirect.com/science/article/abs/pii/S0045653517309517?via%3Dihub

32- Genotoxic response and damage recovery of macrophages to graphene quantum dots:
https://www.sciencedirect.com/science/article/abs/pii/S0048969719304073?via%3Dihub

33- Can graphene quantum dots cause DNA damage in cells?:
https://pubs.rsc.org/en/content/articlelanding/2015/NR/C5NR01734C

34- Blood exposure to graphene oxide may cause anaphylactic death in non-human primates:
https://www.sciencedirect.com/science/article/pii/S1748013220300918?via%3Dihub

35- Cellular and molecular mechanistic insight into the DNA-damaging potential of few-layer graphene in human primary endothelial cells:
https://www.sciencedirect.com/science/article/abs/pii/S1549963416000848?via%3Dihub

36- Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity:
https://iopscience.iop.org/article/10.1088/2053-1583/aab9e2

37- PEGylation of Reduced Graphene Oxide Induces Toxicity in Cells of the Blood–Brain Barrier: An *in Vitro* and *in Vivo* Study:
https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.6b00696

38- Oxygen content-related DNA damage of graphene oxide on human retinal pigment epithelium cells:
https://link.springer.com/article/10.1007%2Fs10856-021-06491-0

39- Cytotoxicity Effects of Graphene and Single-Wall Carbon Nanotubes in Neural Phaeochromocytoma-Derived PC12 Cells:
https://pubs.acs.org/doi/10.1021/nn1007176

40- Evaluation of Graphene Oxide Induced Cellular Toxicity and Transcriptome Analysis in Human Embryonic Kidney Cells:
https://www.mdpi.com/2079-4991/9/7/969

41- Toxicology Study of Single-walled Carbon Nanotubes and Reduced Graphene Oxide in Human Sperm:
https://www.nature.com/articles/srep30270

42- Dose-dependent effects of nanoscale graphene oxide on reproduction capability of
mammals: *https://www.sciencedirect.com/science/article/abs/pii/S0008622315301366?via%3Di hub*

43- Short-term *in vivo* exposure to graphene oxide can cause damage to the gut and
testis: *https://www.sciencedirect.com/science/article/abs/pii/S0304389417300171?via%3Di hub*

44- Cyto and genotoxicities of graphene oxide and reduced graphene oxide sheets on spermatozoa:
https://pubs.rsc.org/en/content/articlelanding/2014/RA/c4ra01047g

45- Nanotoxicity of Graphene and Graphene Oxide:
https://pubs.acs.org/doi/10.1021/tx400385x

46- Graphene toxicity as a double-edged sword of risks and exploitable opportunities: a critical analysis of the most recent trends and developments. *https://iopscience.iop.org/article/10.1088/2053- 1583/aa5476*

47- A differential effect of graphene oxide on the production of proinflammatory cytokines by murine microglia:
https://www.worldscientific.com/doi/abs/10.1142/S1682648515500110

48- Graphene oxide disrupted mitochondrial homeostasis through inducing intracellular redox deviation and autophagy-lysosomal network dysfunction in SH-SY5Y cells:
https://www.sciencedirect.com/science/article/pii/S0304389421011225?via%3Dihub

49- Biodistribution and pulmonary toxicity of intratracheally instilled graphene oxide in mice:
https://www.nature.com/articles/am20137

50- A review of toxicity studies on graphene-based nanomaterials in laboratory animals: *https://www.sciencedirect.com/science/article/abs/pii/S0273230017300119?via%3Di hub*

51- Neutrophils degrade graphene oxide, mediated by myeloperoxidase:
https://www.researchgate.net/publication/351888431_Neutrophils_Defensively_Degrade_Graphene_Oxide_in_a_Lateral_Dimension_Dependent_Manner_through_Two_Distinct_Myeloperoxidase_Mediated_Mechanisms

52- Dose ranging, expanded acute toxicity and safety pharmacology studies for intravenously administered functionalized graphene nanoparticle formulations: *http://europepmc.org/article/MED/24854092*

53- Remote control of the cardiac activity of a living being using graphene:
https://www.infosalus.com/asistencia/noticia-manejan-celulas- cardiacas-cultivadas-laboratorio-control-remoto-20180522073436.html

54- Graphene oxide induces apoptotic cell death in endothelial cells by activating autophagy via calcium-dependent phosphorylation of c-Jun N-terminal kinases:
https://www.sciencedirect.com/science/article/abs/pii/S1742706116304810

55- Cellular and molecular mechanistic insight into the DNA-damaging potential of few-layer graphene in human primary endothelial cells: *https://www.sciencedirect.com/science/article/abs/pii/S1549963416000848*

56- Toxicity Evaluation of Graphene Oxide in Kidneys of Sprague-Dawley Rats:
https://pubmed.ncbi.nlm.nih.gov/27043588/

57- Toxicology of carbon nanotubes and fullerenes:
https://copro.com.ar/Toxicologia_de_los_fullerenos.html

58- The Puzzling Potential of Carbon Nanomaterials: General Properties, Application, and Toxicity:
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7466546/

59- Synthesis and Toxicity of Graphene Oxide Nanoparticles: A Literature Review of *In Vitro* and *In Vivo* studies:
https://www.hindawi.com/journals/bmri/2021/5518999/

60- Radio-frequency characteristics of graphene oxide:
https://aip.scitation.org/doi/abs/10.1063/1.3506468