



**Title:** Glyphosate in Monsanto's RoundUp does not cause cancer: Nanoparticles to aid leaf penetration produce UV radiation that damages DNA leading to cancer.

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The causal link between weed killer RoundUp and cancer is the scrambling of genes in DNA by EM radiation from NPs that enter the blood stream upon the ingestion of food. NPs stand for nanoparticles. Upon reaching the skin, sunlight provides the NPs with the heat necessary to produce EM radiation beyond the UV causing DNA damage in the skin that overwhelms repair mechanisms evolved for sunlight alone thereby leading to lymphoma cancers. NPs produce EM radiation because the Planck law of QM requires the NP atoms have vanishing heat capacity. QM stands for quantum mechanics. For heat capacity to vanish; the NP atoms must be placed under high EM confinement. Since NPs have high surface-to-volume ratios, almost all of absorbed body heat is confined to their surfaces, the surface heat itself providing the EM confinement of NP atoms over nanoscale wavelengths. Lacking heat capacity, simple QED conserves the surface heat by creating EM radiation standing between diametrically opposite NP surfaces. Simple QED based on real photons differs from the complex relativistic QED of virtual photons by Feynman and others. Simple QED conserves heat by creating EM radiation having half-wavelength  $\lambda/2 = nd$ , where  $n$  and  $d$  are the refractive index and diameter of the NP. For NPs having  $d < 100$  nm, UV is directly produced in larger NPs, but EUV is created in small NPs that produce UV by fluorescence. Of interest is current Monsanto litigation that awarded plaintiffs 2 billion USD on the claim RoundUp containing glyphosate caused non-Hodgkin's lymphoma cancer. Simple QED argues the glyphosate does not cause cancer, but rather the cancer is caused by NPs of POEA that aid in the penetration of glyphosate into plant leaves. POEA stands for polyoxyethyleneamine. Monsanto should therefore remove POEA from RoundUp and seek alternatives to improve herbicide efficiency.

## Biography

Thomas Prevenslik is a retired American living in Hong Kong and Berlin. Because classical physics does not work at the nanoscale, he developed the theory of simple QED based on the Planck law of QM that precludes NP atoms from having the heat capacity to conserve heat by increasing temperature. Instead, the heat is conserved by creating standing EM radiation inside the NPs beyond the UV. The instant case of Monsanto's RoundUp causing brain and bone lymphoma cancers finds similarity with the litigation of claims for birth defects and digestive tract cancers from field spraying of food crops with RoundUp.

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