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## **Title: Genotoxicity of GM food?**

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### ***Abstract***

In GM food, modern agriculture controls weeds by spraying Roundup containing water and Glyphosate onto crop fields. GM stands for genetically modified. To enhance Glyphosate penetration through weed leaves, POEA is usually included in Roundup. POEA stands for polyoxyethyleneamine. But weeds alone cannot be sprayed and the POEA enters the leaves of contiguous corn and soybean crops as a nano-emulsion of NP globules that finally reside in the plant crop. NP stands for nanoparticle. By classical physics, metabolic heat in the gut upon digestion of GM food increases the NP temperature. But QM differs. QM stands for quantum mechanics requiring the heat capacity of NPs to vanish. Conservation of metabolic heat in NPs therefore cannot occur by an increase in temperature. Instead, the heat is absorbed in the NP surface because of their high surface/volume ratios, thereby placing interior NP atoms under high EM confinement. But once surface heat in creating the UV waves is depleted, the EM confinement vanishes and the standing wave is free to enter the surroundings. Genotoxicity of GM food is therefore caused by DNA damage by UV radiation from NPs which if not repaired by the immune system may lead to birth defects, autism, and cancer. Indeed, the UV radiation from NPs explains DNA damage found in experiments over the past decade. Discussed is whether the genotoxicity of GM food in altering the DNA of the people in the world is a crime against humanity.

### ***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 QED radiation based on QM. QED is a simple form of the complex light-matter interaction advanced by Feynman and others. By simplified QED, heat cannot be conserved in NPs by temperature changes because the heat capacity of the atom vanishes by QM. Instead, heat is conserved by creating standing EM radiation inside the NP. The EM confinement necessary to create the standing radiation is the consequence of the high surface-to-volume ratio of NPs that requires absorbed heat to be deposited in the NP surface – the surface heat itself providing momentary EM confinement. Once the surface heat providing the EM confinement is depleted in creating the standing EM radiation, the EM radiation is free to be emitted into the surroundings. QED radiation is generally applicable to nanoscale heat transfer applications, and the instant topic of genotoxicity in GM food.

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