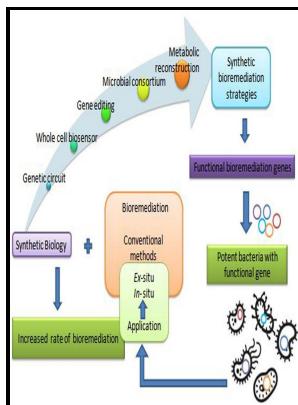


Biotransformation of organic pollutants in the aquatic environment

Guyot - Biodegradation and biotransformation of wastewater organics as precursors of disinfection byproducts in water



Description: -

- Biotransformation of organic pollutants in the aquatic environment

- Nuova biblioteca storica -- 40

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Conjugation of Organic Pollutants in Aquatic Species on JSTOR

Such approaches revealed that differences in NA structures affect both NA biodegradation rates and toxicity.

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More in-depth knowledge about parameters influencing OMP biotransformation as documented in this chapter and other possible factors is required to improve biological processes in terms of technical effectiveness and economic competitiveness in the future. PMID: 32625398 Free PMC article. The most effective process of removing PCBs is molecular distillation at an extremely hot and high pressured environment Ross, 2004.

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They can also become chemically bound to macromolecules, including in particular proteins and DNA, to form macromolecular adducts.

Bioaccumulation and biotransformation processes of polar organic pollutants in aquatic invertebrates

Another source includes large-scale or widespread accidental exposure in populations Ross, 2004.

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In humans, the most common health problems due to PCB toxicity are skin and eye problems Ross, 2004. The solutions were stirred continuously for 15 min, and then 0. The experimental results reveal that SMPs may be an important source of wastewater-derived DBP precursors in natural waters.

Biotransformation strategies for steroid estrogen and androgen pollution

Composite Material Particle Size Wavelength of Light Used Targeted Pollutant Pollutant Concentration References rGO—Ag Bhunia et al. If the radioiodine cancer triggers became airborne en route, as aerosols within wind-forced sea sprays, their arrival times among downstream human victims would have been much less, of course.

Identification of biotransformation products of organophosphate ester from various aquatic species by suspect and non

HABs, fueled by diazotrophs and entrained within sea salts, would have carried ashore both recycled organic mercury and pesticide poisons, as well as radionuclides and other endocrine disruptors, during their onshore, wind-borne transports to human victims within sea sprays off São Paulo. Decreased fertilization rates could result from genotoxicity observed in gametes, a mechanical effect disrupting gamete interaction and oxidative stress Preaubert et al. It is a reproductive toxicant and can alter hormone levels and causes developmental abnormalities or cancer when direct exposure occurs.

Bioaccumulation and biotransformation processes of polar organic pollutants in aquatic invertebrates

In food chains, the differences between uptake and biotransformation therefore result in different patterns of bioaccumulation in different animal groups, with readily metabolized pollutants, such as PAHs, reaching highest tissue concentrations near the bottom of food chains in shellfish, and poorly metabolized or recalcitrant pollutants, such as many PCBs, accumulating to highest tissue concentrations in vertebrates at the top of food chains. PMID: 32625397 Free PMC article. Over this short time period of ~47 days, the observed thyroid cancers could have been induced by some of the remaining undecayed iodine radioisotopes, accrued within windblown onshore sea sprays and HAB carriers.

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