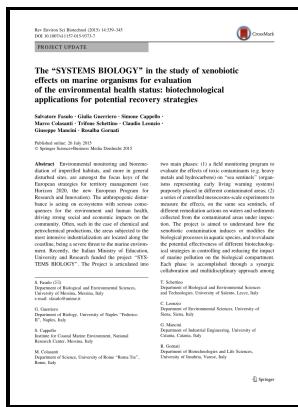


Formation of genotoxic xenobiotic metabolites in marine organisms

University of Birmingham - Biomarkers of genotoxicity and other end-points in an integrated approach to environmental risk assessment



Description: -

- Formation of genotoxic xenobiotic metabolites in marine organisms
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Formation of Genotoxic Nitro

Molecules with high water solubility are also non-genotoxic.

Genotoxic potential of xenobiotic growth promoters and their metabolites

A few PAHs were detected in the laboratory blanks.

Formation of Genotoxic Nitro

Chitosan and poly methyl acrylic acid 2. Subsequent to this work, it was reported that activation of aminoflavone by sulfotransferase was necessary for its genotoxicity and antiproliferative effects.

Unity and diversity of responses to xenobiotics in organisms

Aminoflavone was extensively metabolized to a number of metabolites by CYP1A1 and CYP1A2 in rat and human liver microsomes, one of which was reported to be a potentially reactive hydroxylamine.

DNA adducts in marine fish as biological marker of genotoxicity in environmental monitoring: The way forward

The ring oxidation of the nitro-PAH involves the biotransformation enzyme CYP1A whose induction by a mixture of PAH and nitro-PAH is additive. We here present a model of field study, based on the use of sentinel species, that we are currently applying to risk assessment in the area around a focus of pollution. Providing that investigations are carefully designed, controlled, and executed, the view presented here is possible for any organic molecule in any animal species.

DNA adducts in marine fish as biological marker of genotoxicity in environmental monitoring: The way forward

This agrees with our previous studies which indicated that AWI killifish have higher tolerance and better defense mechanisms against oxidative stress ;. The shaded ellipse represents the metabolic space for arecoline, from which both the known and novel metabolites were identified. The decision for choosing the analytical technique should be primarily based on the level of the GTI and also on the physicochemical properties of the analyte.

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