

Contaminants dans le système trophique : phytoplancton, zooplancton, anchois, sardine.

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The COSTAS project is aimed at understanding and modeling the entry and the fate of chemical contaminants, from the first links in the trophic chain (plankton), into the small pelagic fish (anchovies and sardines) in The Gulf of Lion. This study deals with persistent organic contaminants (polychlorobiphenyls -PCBs and polybromodiphenylethers -PBDEs), mercury (Hg) and methylmercury (CH₃Hg), other metals (Pb, Cd, Co, Cu, Ag, Zn...), naturally occurring radioelements (210Pb, 210Po) and some stable isotopes of lead (204Pb, 206Pb, 207Pb, 208Pb). COSTAS is based on multidisciplinary skills and on elaborating coordinated actions: from the acquisition of field data (oceanographic campaigns), to laboratory analyses and the use of models. This approach integrates the ecological aspect of the trophic network, as well as that of the biogeochemistry of the contaminants.