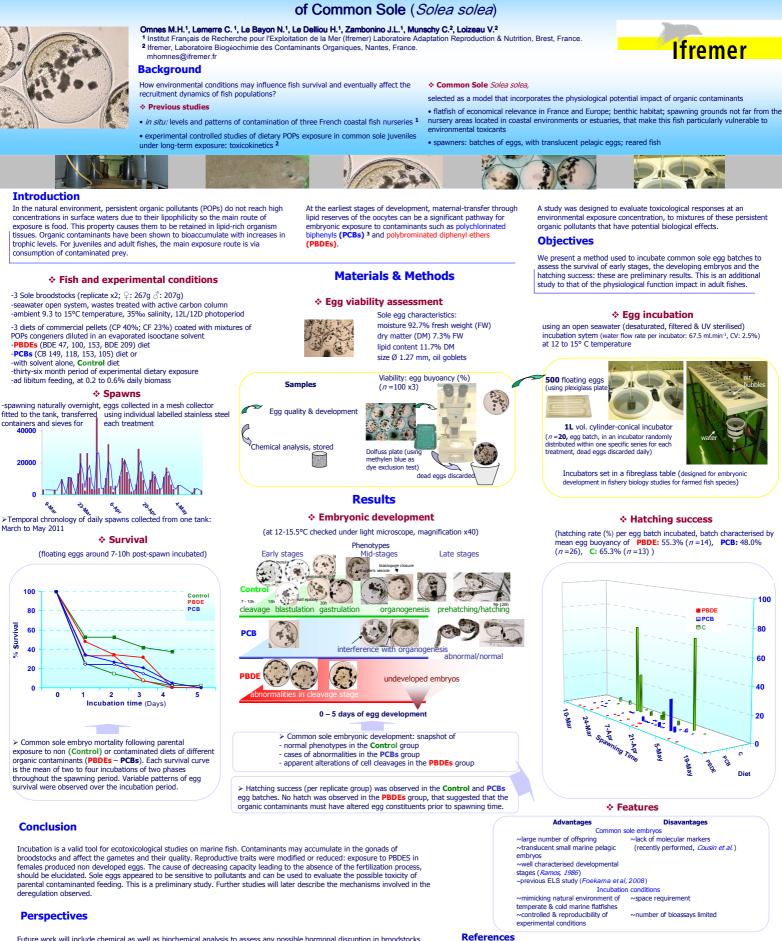
Long-term exposure to polybrominated diphenyl ethers (PBDEs) or polychlorinated biphenyls (PCBs) through diet affects embryonic development of Common Sole (Soles soles)



Future work will include chemical as well as biochemical analysis to assess any possible hormonal disruption in broodstocks. Measures of concentrations of PCBs or PBDEs (congeners or hydroxylated forms), in the whole-egg are required to explain the induction of non developed embryos, as well as in different tissues (muscle, liver and female gonads). Morphological alterations or mortality rates are often described as non-specific criteria for eggs. Future studies should be conducted on the molecular effects for this species to confirm the impact of toxicants.

(2) Eichinger et al., 2010. Journal of Sea Research 64, 373-385.
(3) Daouk et al., 2011. Aquatic Toxicology 105, 270-278.

(1) Munschy et al., 2011. Science of the Total Environment 409, 4618-4627

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