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Ecotoxicology of pharmaceutical and personal care wastewaters on fish reproduction

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Pharmaceutical and personal products (PPCPs) are generated in lots of amounts all over the world due to the extra needs of it. It washed into the aquatic habitat and causes the harmful changes on its ecosystem. Among the aquatic organisms are the fishes can easily affected by these PPCPs. Acute and chronic exposure to PPCPs cause many harmful changes in fish vital functions. Therefore, the overall fish health, its fecundity and existence can facing the weakness or even stop function. The acute median lethal concentration (LC50) is varied according to the composition of PPCPs and the testing organism. The comparative assessment of PPCPs toxicology is necessary

for its toxicity evaluation. Furthermore, its monitoring in the aquatic habitat is mandatory for healthy environment. Therefore, some of recent monitors of PPCPs are highlighted in freshwater and marine waters. The long term effect of PPCPs can disturb fish gonadotropins and regress its gonads. The effect of PPCPs on fish ovaries and testes are assessed in some of freshwater and marine water fishes. Furthermore, the PPCPs cause many harmful effects on fish at its early life stages. Therefore, the PPCPs are one of the causative factors for depressing Global fisheries and disturb its sustainability.

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