Something fishy in the water: Behavioural effects of SSRI on the three-spine stickleback (*Gasterosteus aculeatus*)

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Selective Serotonin Re-uptake inhibitors (SSRIs) are used in the treatment of depression, Obsessive-Compulsive Disorder and other psychological syndroms. However, they are highly lipophilic and often resistant to sewage treatment and therefore often end up in aquatic biota. Since the serotonergic system is highly conserved across the vertabrate group, they exert similar effects on aquatic organisms as on us which may have unfortunate ecological consequences.

I will discuss the behavioural effects of those compounds on fish in general and the three-spine stickleback in particular. I will also brush upon likely ecological consequences of those effects as well as the behavioural impact of the serotonergic on behaviour in fish.

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