

## Accepted Manuscript

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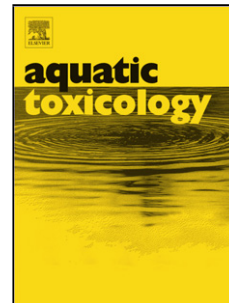
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**Review: Chemical avoidance responses of fishes**

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**Highlights**

- An expectation in aquatic toxicology is that fish move away from toxic chemicals
- Fish avoid various pesticides, metals, gases, hydrocarbons and effluents
- Fish may be attracted to the same types of chemicals or their mixtures
- Models to predict avoidance or prescribe testing are provided
- A challenge is to protect fish in field through the use of chemical stimuli

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