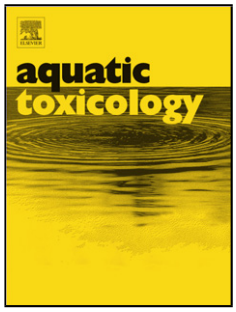

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Life history traits and genotoxic effects on Daphnia magna exposed to waterborne uranium and to a uranium mine effluent - a transgenerational study

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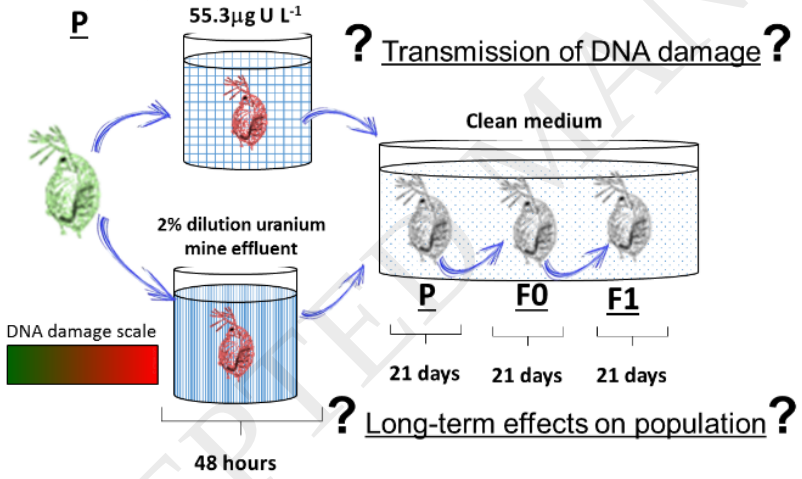
Graphical abstract



Highlights

- Long-term genetic impacts of intermittent discharges of uranium mine effluents (UME) were investigated
- Exposures to waterborne uranium (WU) and UME result in loss of DNA integrity
- Genetic damage was transmitted to offspring only in the initial couple of broods of exposed parents after discontinuation of exposure.
- At the long-term, daphnid populations show high resilience to low-dose UME/WU