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Developing antibodies from cholinesterase derived from prokaryotic expression and testing their feasibility for detecting immunogen content in *Daphnia magna*

Key words: *Daphnia magna*, Cholinesterase, PCR, Recombinant protein ChE, ELISA, triazophos

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Research Summary

- A sequence of gene of cholinesterase was amplified from cDNA of *Daphnia magna.*
- The amplified gene was expressed with *E. coil* BL21 (DE3).
- Polyclonal antibodies were developed against the recombinant cholinesterase.
- The antibodies showed desired specificity and sensitivity towards the recombinant cholinesterase.
- The antibodies were employed for testing of native cholinesterase of *Daphnia magna* in triazophos exposures.

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