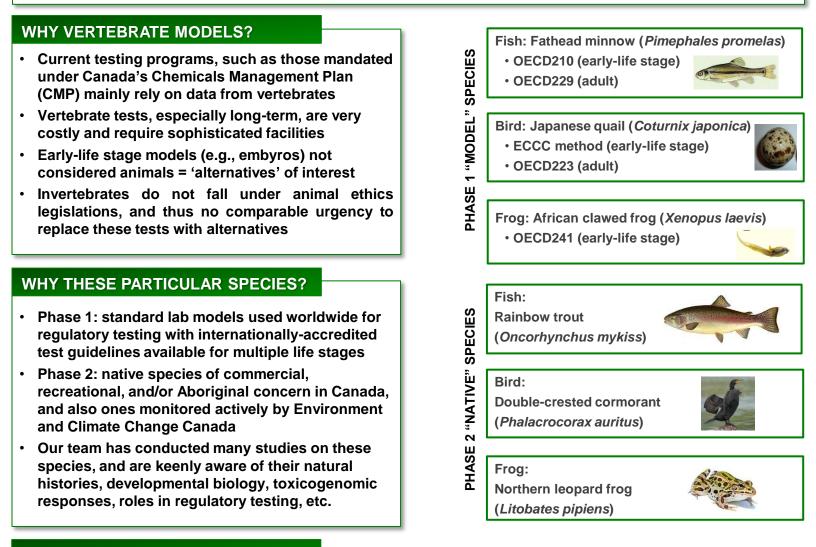


Why these six animal models?

BACKGROUND INFORMATION

To establish EcoToxChips we focus on a core set of carefully selected key vertebrate species of relevance in ecological and chemical risk assessment. In doing so we plan to demonstrate that EcoToxChips can inform studies on key animal models used worldwide in regulatory ecotoxicity testing AND also be ported to a range of native species that are of commercial, recreational, and Aboriginal interest. In addition to "whole animals", we will study early-life stages since these: a) are generally considered more sensitive to chemicals; b) are not considered live animals until they feed independently - and therefore represent an alternative model; and c) require less demanding facilities to maintain for exposure studies.



TAKE AWAY

By focusing on highly relevant fish, birds, and frogs – in regulatory settings as well as in natural ecosystems – we aim to showcase that EcoToxChips can be scaled across species, applications, and life stages. In doing so, EcoToxChips can be developed for a limitless number of species.

References

Images from Wikipedia Species information: http://animaldiversity.org/ OECD: http://www.oecd-ilibrary.org/books

Notes

Briefing note 4.1 was developed for the Genome Canada-funded project "EcoToxChip: A Toxicogenomics Tool for Chemical Prioritization and Environmental Management" www.ecotoxchip.ca / @ecotoxchip Project Leads: Nil Basu (McGill University), Doug Crump (Environment & Climate Change Canada), Markus Hecker (University of Saskatchewan)