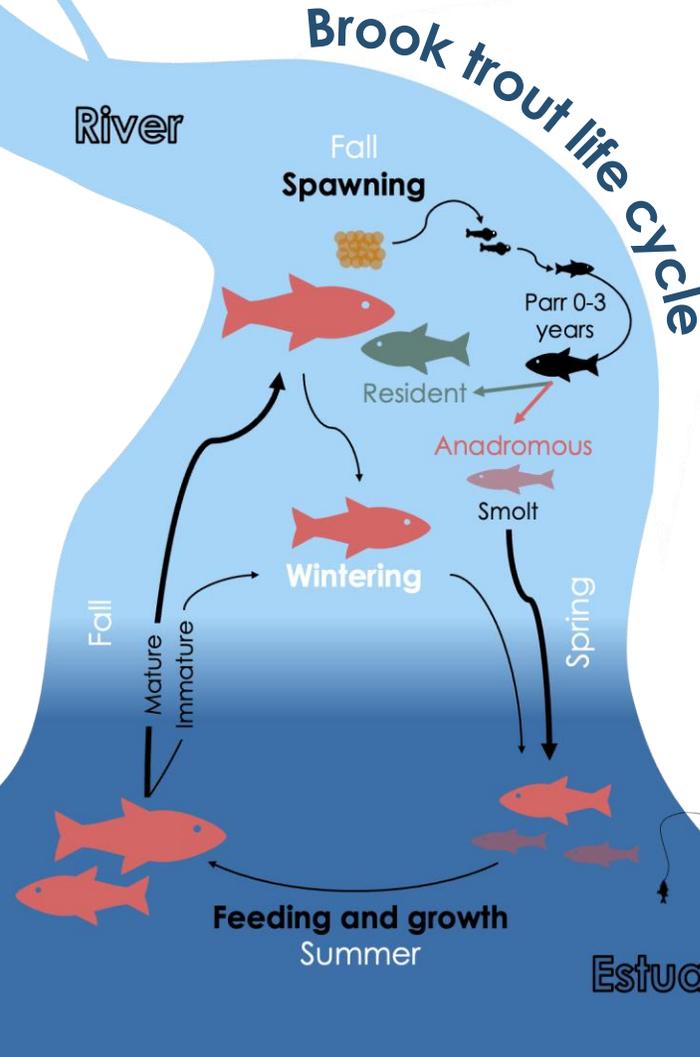


Born to stay or born to stray: linking behaviour and ecotype determination in partially migratory brook trout (*Salvelinus fontinalis*)

Sofia Sabbagh (UQAR), Eva Enders (INRS), and Emmanuelle Chrétien (UQAR)

METHODS



Sampling: Ste-Marguerite River

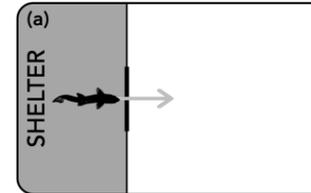


Resident ecotype
Electrofishing
Tributaries

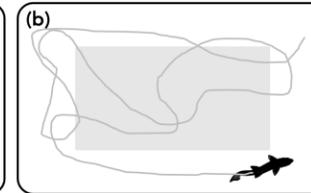


Anadromous ecotype
Smolt wheel
Main river branch

Behavioural trials



1. Shelter test
(boldness ⚠️)



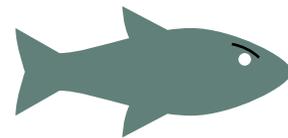
2. Open-field test
(boldness ⚠️ and exploration 👁️)



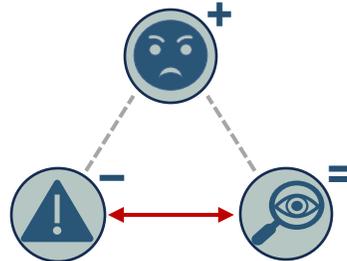
3. Mirror test
(aggressiveness 😡)

RESULTS

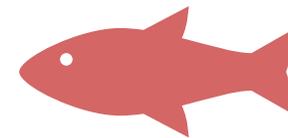
Resident fish



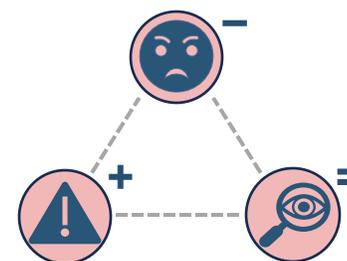
More aggressive



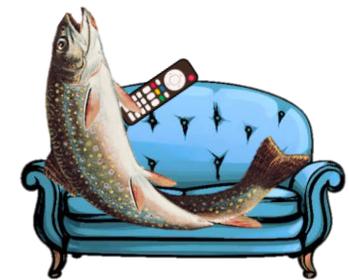
Anadromous fish



More bold



Behavioural syndrome detected in **residents** (boldness and exploration)



Better habitat exploitation = less important need to migrate to resource-rich marine habitats