Reed Biology Seminar Oct 2nd 4:10 PM B19

"Dissecting the mechanistic basis of behaviour variation in fishes using an integrative approach"

Dr. Nadia Aubin-Horth,Departement de Biologie, Institut de Biologie Integrative et des Systemes, Universite Laval



The Aubin-Horth lab studies the underlying molecular and hormonal causes of variation in behaviour in vertebrates and its evolution. With a strong interest for phenotypic plasticity and the effects of genetic variation they study ecologically-relevant behaviours such as boldness, exploration and activity, as well as social behaviours including sociability and aggressiveness. They use an integrative approach, linking data from each individual across levels of biological organization: behaviour and morphology, neuropeptides and their receptors, genome-wide expression levels, DNA modifications such as methylation, and physiology and hormones, all within an ecological context.

For BIO342 class credit, attend the seminar. Read Morris et al 2014 "**Gene expression** plasticity evolves in response to colonization of freshwater lakes in threespine stickleback" (Molecular Ecology (2014) 23, 3226–3240)

(http://onlinelibrary.wiley.com/doi/10.1111/mec.12820/epdf: also available on the course website).

Type up a short seminar report (<1 page).

In your report, summarize the main concept of the talk and the experimental results that best demonstrate this concept.

DUE no later than class Oct. 9th