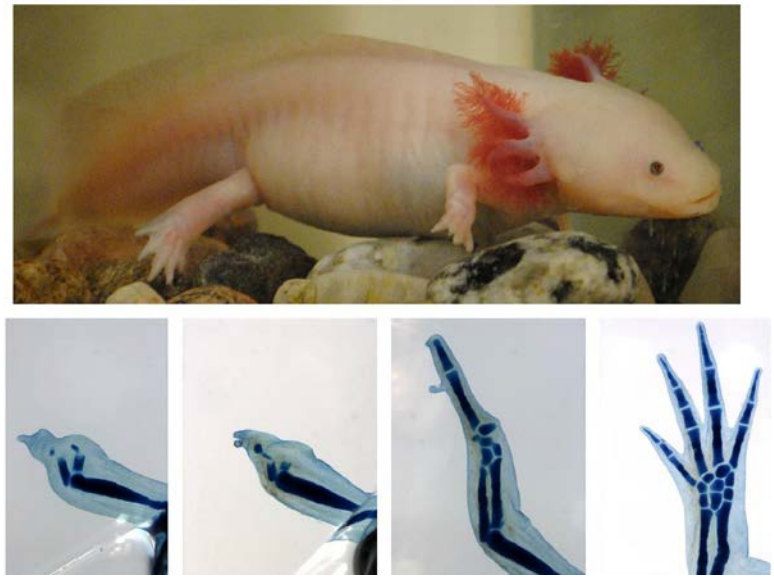
GUEST SPEAKER SEMINAR

Molecular Genetics
UNIVERSITY OF TORONTO

Limb Regeneration in Axolotls: the TGF-ß superfamily from beginning to end!



The ability to regenerate amputated limbs from a stump of mature tissue is only possible for humans in science fiction movies. Although humans are deprived from this incredible feat some tetrapods are actually able to achieve perfect tissue regeneration. The champions among tetrapods are the salamanders such as the axolotl and newt. Understanding the diverse cellular signaling pathways controlling cell proliferation, dedifferentiation and redifferentiation during regeneration in these animals could lead to a roadmap for human regeneration. My lab studies the role of the TGF-β superfamily (TGF-β & BMPs) during axolotl limb regeneration and I will present our data showing that TGF-β and BMPs are important for different aspects of the limb regeneration process.

Dr. Stéphane Roy

Professor, Department of Stomatology, Faculty of Dentistry
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Host: Dr. Bret Pearson

Date: Thursday November 2nd, 2017
Time: 9:30AM
Place: CCBR Red Seminar Room, 160 College Street