

Dr. Joshua Pemberton has received the 2015 CCUBC Graduate Student Research Prize for research completed during his tenure at the University of Alberta under the supervision of Prof. John P. Chang. Their ongoing studies have examined the intracellular mechanisms contributing to the hormonal control of growth and reproduction in vertebrates by studying the coordinate regulation of pituitary cell functions using goldfish (*Carassius auratus*) as a study model. In particular, their most recent findings are of broad interest to the field of cellular signalling as they provide important evolutionary insights into the molecular mechanisms that couple G protein-coupled receptor activation to agonist-selective intracellular signal transduction responses; including the recruitment of signalling enzymes from the phosphoinositide 3-kinase superfamily. These findings are some of the first to investigate the extent to which diversity within the molecular features of endogenous hormones contribute to the integrated regulation of natural physiological systems.

Joshua has only recently defended his doctoral thesis, but beginning in January of 2016, he will continue his research on the fundamental mechanisms underlying cellular communication as a Natural Sciences and Engineering Research Council of Canada (NSERC) Postdoctoral Fellow in the Section on Molecular Signal Transduction at the Eunice Kennedy Shriver National Institute for Child Health and Human Development in Bethesda, Maryland, USA.



**Dr. Joshua Pemberton, University of Alberta,
Michael Caldwell, CCUBC 2015 President,
presenting Joshua Pemberton with the
CCUBC Graduate Student Research Prize**