



Report for ISN Symposium: GPCR REGULATION OF SYNAPTIC ACTIVITY on behalf Dr. Stephane Laporte

The ISN GPCR REGULATION OF SYNAPTIC ACTIVITY was held in conjunction with the 13th Annual Joint Meeting of the GreatLakes GPCR Retreat and Club des Recepteur a Sept Domaines Transmembranaire held in London, Ontario, Canada October 17th-19th 2012. The meeting was focused on all aspects of G protein coupled receptor signaling and included five symposia and a keynote speaker. The keynote speaker for the meeting was Dr. Jean-Philippe Pin of the Institut de Génomique Fonctionnelle who spoke about Class C GPCR complexes: one, two and more. The meeting was comprised of 23 speakers from North America, Europe and Asia and included 5 student/postdoctoral presentations. The meeting also had two poster sessions where 76 posters were presented by the 152 participants at the meeting. The poster abstracts as well as review article written by the symposium speakers will be published in a special issue of the *Journal of Receptors and Signal Transduction*. The ISN symposium was the opening symposium of the meeting and featured four speakers. Dr. Marc Caron (Duke University) presented data on the Role of G protein- and β arrestin-dependent signaling in D2 dopamine receptor function. Dr. Ali Salahpour (University of Toronto) presented data on D1 dopamine receptor coupling to PLC β regulates forward locomotion in mice. Mr. Karin Nagi a student from the University of Montreal presented data on Inward rectifying potassium channels KIR3.1/3.2 and delta opioid receptors form constitutive signalling complexes that are modulated by β -arrestin2. Dr. Andrew Tobin (University of Leicester) presented data on the Impact of GPCR phosphorylation on neurological behaviour. The International Society for Neurochemistry was prominently featured in the symposium, at the meeting and in the meeting syllabus. Other symposia included: GPCR trafficking, RGS and G proteins, GPCR signaling in Cancer, and GPCR Scaffolded Protein Complexes/Biased Signaling. The ISN funding was used to support the travel and accommodations of the speakers in the symposium as well as Jean Philippe Pin who was originally to be featured in the symposium. Dr. Pin graciously filled in at the last minute as our keynote speaker due to the fact that the original keynote speaker Brian Kobilka had a last minute conflict due to winning the Nobel Prize in Chemistry.