

02. April 2020  
Time: 16:15 h

Department of  
Chemistry and  
Biochemistry (DCB)  
Seminar Room S379  
Freiestrasse 3,  
3012 Bern

Everybody is welcome

Follow the NCCR TransCure lectures:  
<http://www.nccr-transcure.ch/events>  
Twitter: @NCCR\_TransCure



Dr. Graham Ladds is  
Lecturer in the Department of Pharmacology,  
Univ. of Cambridge, and  
fellow in St John's  
College (UK).

This lecture is hosted by  
Prof. Martin Lochner  
(IBMM).

# NCCR TransCure Lecture in Biology by Graham Ladds

## Factors influencing family B GPCRs: RAMPing it up

G protein-coupled receptors (GPCRs) remain one of the leading targets for therapeutic intervention. With over 1000 different types, they have been classified into subfamilies. The focus of my presentation will be the factors that influence the action of the secretin-like (family B) GPCRs. These are able to activate multiple signalling pathways (agonist bias). Specifically I will explore how a family of molecular chaperones (the receptor-activity modifying proteins - RAMPs) influence individual GPCR-G protein couplings. These findings are presented in the context of agonist bias at the glucagon receptor, the gastric inhibitory polypeptide receptor and the calcitonin-like receptor and the gastric inhibitory polypeptide receptor.