

par **Sébastien Granier**

Institut de Génomique Fonctionnelle (U1191 INSERM)
Montpellier

Structural studies of transmembrane proteins

During this presentation, I will present our efforts to analyze the mechanisms of seven transmembrane proteins function (G protein-coupled receptor and ceramidases) using structural biology approaches including solution NMR and fluorescence spectroscopy as well as cryoelectron microscopy and LCP crystallography.

In particular, I will highlight the conformational changes associated with opioid receptor activation and the structural basis for receptor-G protein coupling.

I will also present our recent discovery revealing the adiponectin receptors as novel types of intramembrane enzymes able to hydrolyse the bioactive lipid ceramide and our recent analyses of the conformational changes occurring during this process.

Hôte : Paul Schanda (IBS/Groupe RMN)