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Stimulation of olfactory receptors expressed in cancer cells promotes their invasiveness and proliferation, leading to increased metastasis emergence in vivo

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GDR 3545
G Protein-coupled Receptors
From physiology to drugs (RCPG-Physio-Med)



<http://www.gdr3545.com>

4th meeting

Toulouse

November 4-6, 2015



**Conseil Régional
Midi-Pyrénées
22 Bd du Maréchal Juin**

Preliminary Program

Wednesday november 4

12:30 Registration

14:00 Welcome

Session 1 - GPCR regulation and signaling (Chairperson *Lionel Moulédous*)

14:15 **Ulla Petaja-Repo, University of Oulu (Finland)**

GPCR folding, maturation and trafficking

15:00 **Andrew Tobin, University of Leicester (UK)**

Cellular and physiological impact of GPCR phosphorylation

15:45 Coffee break

16:15 **Franck Vandermoere, IGF Université de Montpellier (France)**

Quantitative phosphoproteomics unravels biased phosphorylation of serotonin 5-HT_{2A} receptor at Ser²⁸⁰ by hallucinogenic versus non-hallucinogenic agonists

16:45 **Young Scientists selected from posters (5)**

18:30-21:00 **Poster Session 1**

19:00-22:00 Buffet

Thursday november 5

Session 2 - Nanoscale organization and dynamics of GPCR signaling (Chairperson *Laurence Salomé*)

9:00 **Jörg Standfuss, Paul Scherrer Institute (Switzerland)**

Molecular mechanisms of phosphorylation-dependent arrestin activation

9:45 **Julie Perroy, IGF Université de Montpellier (France)**

Organization and dynamics of the glutamatergic receptors at the synapse

10:30 Coffee break

11:00 **Céline Galès, I2MC Université de Toulouse (France)**

AFM/adrenergic receptors

11:30 **Young Scientists selected from posters (2)**

12:00 Buffet

Session 3 - GPCR targeting in pathophysiology

Special Session : GPCR targeting in atherothrombosis and bleeding (Chairperson Jean-Michel Sénard)

13:30 **Stuart Mundell, University of Bristol (UK)**

Platelet dysfunction associated with GPCR variants in human

14:15 **Keneth Jacobson, NIH Bethesda (USA)**

Structure and pharmacochimistry of purinergic receptors

15:00 **Thibault Lhermusier, CHU Toulouse (France)**

Benefits and risks of new antiplatelet agents

15:30 Coffee break

(Chairperson Daniel Fourmy)

16 :00 **Bernard Lagane, Institut Pasteur Paris (France)**

Mechanisms of HIV-1 escape/resistance to inhibition by CCR5 ligands

16:45 **Jean-Claude Reubi, University of Berne (Switzerland)**

Regulatory peptide receptors as targets for tumor diagnosis and therapy

17:15 **Guenhael Sanz, INRA Jouy en Josas (France)**

Stimulation of olfactory receptors expressed in cancer cells promotes their invasiveness and proliferation, leading to increased metastasis emergence in vivo

17:45 **Young Scientists selected from posters (3)**

18:30 General Assembly of GDR members

19:30-22:00 **Poster Session 2**

20:00-22:00 Dinner

Friday november 6

Session 4 - Drug-discovery and genetic approaches to address GPCR function (Chairperson Alain Milon)

9:00 **MatthiasTschöp, University of Munich (Germany)**

A rationally designed monomeric peptide triagonist corrects obesity and diabetes in rodents

9:45 **Gregg Siegal, ZoBio Leidein (The Netherlands)**

Fragment screening of GPCRs using biophysical methods

10:30 Coffe break

11:00 **Frédéric Simonin, ESBS Université de Strasbourg (France)**

Genetic models for the study of RFamide receptors

11:30 **Young Scientists selected from posters (2)**

12:00 **Ralf Jockers, Institut Cochin Université Descartes Paris (France)**

Therapeutic potential of orphan GPCR

12:45-13:30 Awards and Conclusion