



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

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## ► To cite this version:

Guenhaël Sanz, Isabelle Leray, Denise Grebert, Sharmilee Antoine, Adrien Acquistapace, et al.. Stimulation of olfactory receptors expressed in cancer cells promotes their invasiveness and proliferation, leading to increased metastasis emergence in vivo. 4. Annual Meeting GDR 3545 G Protein-coupled Receptors From physiology to drugs (RCPG-Physio-Med), Groupement de Recherche (GDR3545). FRA., Nov 2015, Toulouse, France. pp.138. hal-02738961

HAL Id: hal-02738961

<https://hal.inrae.fr/hal-02738961>

Submitted on 2 Jun 2020

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GDR 3545  
G Protein-coupled Receptors  
From physiology to drugs (RCPG-Physio-Med)  
<http://www.gdr3545.com>



4<sup>th</sup> 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<sub>2A</sub> receptor at Ser<sup>280</sup> 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 receptosome 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 pharmacochemistry 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 **Matthias Tschöp, University of Munich (Germany)**

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

9:45 **Gregg Siegal, ZoBio Leiden (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