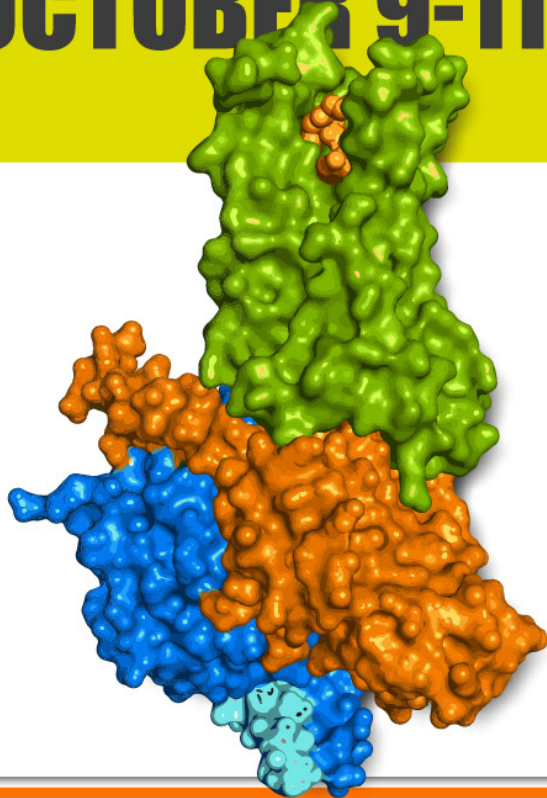


8th Edition

CNRS GDR3545

GPCR INTERNATIONAL MEETING

OCTOBER 9-11 2019



Montpellier - FRANCE

SALLE PAGÉZY

Associated events
OCTOBER 7-9
ESTEVE Foundation workshop
HTRF® Practical School

SCIENTIFIC PROGRAMME

2019 ORGANIZERS





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Wednesday October 9th

13:30 - 14:00 **Registration**

14:00 - 14:30 **Welcome Message & Opening**

SESSION: SIGNALING AND DRUG DEVELOPMENT I

14:30 - 14:50 **Frédéric SIMONIN** (ESBS, Strasbourg - FR)

Opioid analgesics without side effects: myth or reality?

14:50 - 15:10 **Julien HANSON** (Université de Liège, Liège - BE)

Dynamic profiling of individual GPCR-G protein interaction

15:10 - 15:30 **Carine BECAMEL** (IGF, Montpellier - FR)

Early 5-HT₆ receptor blockade as therapy to prevent symptom onset in a model of adolescent THC abuse

15:30 - 15:45 **Julien BOUS** (IGF-CBS, Montpellier, France)

Cryo-EM structure of the active state of the antidiuretic hormone V2 receptor in complex with the signaling Gs protein

15:45 - 16:00 **Alexandre CABAYE** (Université Paris Descartes, Paris, France)

Long time-scale molecular dynamic simulations of mGlu receptors

16:00 - 16:15 **Liu LEI** (Institut Cochin, Paris - FR)

A G protein-coupled receptor micro-switch controls allosteric agonism

16:15 - 16:45 **Coffee break** ☕

SESSION: SIGNALING AND DRUG DEVELOPMENT II

16:45 - 17:05 **Cherine BECHARA** (IGF, Montpellier - FR)

GPCRs and Infectious diseases: the case of Chemokine Receptors and *S. aureus*

17:05 - 17:20 **Frédéric JEAN-ALPHONSE** (INRA, Nouzilly - FR)

The Role of Gq in PTH-Receptor Signaling via cAMP

17:20 - 17:35 **Caroline ISMEURT** (IGF, Montpellier, France)

A novel multi-target-directed ligand with triple activity alleviates Alzheimer's disease pathology in vivo

17:35 - 17:50 **Andrea KLIEWER** (Institut de Psychiatrie et Neurosciences, Paris, France)

Phosphorylation-deficient G-protein-biased μ -opioid receptors improve analgesia and diminish tolerance but worsen opioid side effects

17:50 - 17:55 **Sponsors Session : Promega**

17:55 - 18:00 **Sponsors Session : Nanotemper**

18:00 - 18:40 **Meritxell CANALS** (Nottingham University, Nottingham - GB)

Molecular determinants of μ -opioid receptor signalling and regulation

19:00 - 22:30 **Poster session : Poster numbers 1 - 40**

20:00 - 22:30 **"Wine & cheese" Social event** 🍷🧀



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Thursday October 10th

09:00 - 09:10 **Opening Remarks**

SESSION: TOOLS FOR DRUG DISCOVERY IN GPCRS AND BEYOND I

- 09:10 - 09:50 **Steven BALLEET** (Vrije Universiteit, Brussels - BE)
Engineering Hybrid Peptidomimetics for improved Pain treatments
- 09:50 - 10:10 **Didier ROGNAN** (LIT, Strasbourg - FR)
FLT3 negative allosteric modulators: From screening hits to a preclinical candidate for the treatment of neuropathic pain
- 10:10 - 10:25 **Raphaëlle QUILLET** (BSC, Université de Strasbourg, Strasbourg, France)
RFamide related peptide-3/Neuropeptide FF1 receptor is a pronociceptive system involved in the development of hyperalgesia induced by opiates and inflammatory pain
- 10:25 - 10:40 **Robert QUAST** (CBS, Montpellier - FR)
Structural dynamics of single metabotropic glutamate receptors
- 10:45 - 10:50 *Sponsors Session : Perkin Elmer*
- 10:50 - 10:55 *Sponsors Session : Berthold*
- 11:00 - 11:30 **Coffee break** ☕

SESSION: TOOLS FOR DRUG DISCOVERY IN GPCRS AND BEYOND II

- 11:30 - 11:50 **Maria WALDHOER** (InterAx Biotech AG, Villigen - CH)
Integrating Experimental And Computational Pharmacology For Intelligent Drug Design
- 11:50 - 12:10 **Andrew BROWN** (GSK, Stevenage - GB)
Chemical biology identifies N-acylamides as endogenous ligands of G2A/GPR132
- 12:10 - 12:30 **Thomas ROUX** (Cisbio - FR)
Advanced Fluorescent Technologies to address challenges in GPCR binding & signaling
- 12:30 - 13:10 **Hsin-Yung YEN** (Mass Therapeutics, Oxford - GB)
Deep insight into receptor pharmacology and lipid modulation using mass spectrometry
- 13:10 - 13:15 **Group photo**
- 13:15 - 14:30 **Lunch buffet & Poster session** 🍴

SESSION: NEW TARGETS FOR CANCER TREATMENT I

- 14:30 - 15:10 **Gunnar SCHULTE** (Karolinska Institutet, Stockholm - SE)
Activation mechanisms of Class F receptors
- 15:10 - 15:25 **Santo PEVRITI** (IBMM, Montpellier, France)
Development and optimization of novel radiolabelled neurotensin analogues for NTS1-positive tumours theranostic
- 15:25 - 15:40 **Romain BOURDY** (Université de Strasbourg, Strasbourg, France)
Diet-induced obesity differentially regulates endocannabinoid transcripts in reward circuitry depending on sucrose vs fat overconsumption
- 15:40 - 16:20 **Aashish MANGLIK** (UCSF, San-Francisco - USA)
Molecular Puzzles in GPCR signaling
- 16:20 - 16:40 **Coffee break** ☕



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SESSION: NEW TARGETS FOR CANCER TREATMENT II

- 16:40 - 17:00 **Olivier CUVILLIER** (Toulouse - FR)
S1PR antagonist, Fingolimod, as a drug repurposing in cancer?
- 17:00 - 17:20 **Hélène CASTEL** (Université de Rouen, Rouen - FR)
Chemokine GPCRs interactors such as G proteins or anchoring partners in the control of gliomagenesis
- 17:20 - 17:40 **Véronique GIGOUX** (LCPNA, Toulouse - FR)
GPCR and targeted nanotherapy of cancers: the example of targeted magnetic hyperthermia.
- 17:40 - 17:45 *Sponsors Session : Domain Therapeutics*
- 17:45 - 17:50 *Sponsors Session : Skymab*
- 17:55 - 18:35 **Mikel GARCIA-MARCOS** (Boston University, Boston - USA)
The secret lives of G-proteins
- 18:40 - 19:30 **Assemblée générale**
- 20:00 - 22:30 **GDR Buffet & Poster Session : Poster numbers 41 - 76** 🍴🍷

Friday October 11th

- 09:00 - 09:10 **Opening Remarks**

SESSION: SENSORY, NUTRITION & METABOLISM I

- 09:10 - 09:50 **Giovanni MARSICANO** (Neurocentre Magendie, Bordeaux - FR)
CB1 cannabinoid receptor signaling in the brain: the where matters!
- 09:50 - 10:10 **Pablo CHAMERO** (Université de Tours, Tours - FR)
Central role of Gai2 and Gao G protein subunits in balancing aggressive and parental
- 10:10 - 10:30 **Giuseppe GANGAROSSA** (Univ. de Paris Diderot, Paris - FR)
The vagus nerve as gatekeeper of dopamine signaling: from metabolism to reward
- 10:30 - 10:50 **Grégory MERLEN** (Paris Orsay - FR)
Hepatoprotection through the bile receptor tgr5
- 10:50 - 10:55 *Sponsor Session : Fluidics Analytics*
- 10:55 - 11:00 *Sponsor Session : Indorsia Pharmaceuticals*
- 11:00 - 11:30 **Coffee break** ☕

SESSION: SENSORY, NUTRITION & METABOLISM II

- 11:30 - 11:50 **Jean-Louis BANERES** (IBMM, Montpellier - FR)
Membrane-dependent regulation of ghrelin signaling
- 11:50 - 12:10 **Séverine DENOYELLE** (IBMM, Montpellier - FR)
Ghrelin receptor: design and evaluation of inverse agonists
- 12:10 - 12:30 **Jérôme GOLEBIOWSKI** (ICN, Nice - FR)
Targeting taste and smell receptors
- 12:30 - 12:50 **Ralf JOCKERS** (Institut Cochin, Paris - FR)
Communication within receptor heteromers matters
- 12:50 - 13:30 **Poster / Presentation awards**
- 13:30 - 13:50 **Conclusion**