



ONCORNET2.0 Final Symposium



Thursday 31 August 2023 - Friday 1 September 2023
Vrije Universiteit Amsterdam (VU), De Boelelaan 1108, Amsterdam, NL

Day 1: 31 August 2023 (Thursday)

9:00	Registration and coffee
9:30	Welcome and introduction Martine Smit (<i>Vrije Universiteit Amsterdam</i>)
Session 1: Structural biology and drug discovery of chemokine receptors	
09:40	Atypical Structure and Mechanism of an Atypical Chemokine Receptor Tracy Handel (<i>University of California San Diego</i>)
10:20	Optical control of ACKR3 with photoswitchable ligands Sophie Bérenger & Justyna Adamska (<i>Vrije Universiteit Amsterdam</i>)
10:50	Functional and structural consequences of CXCR4-Ephrin b1 interactions Ola Otun & Alessandro Rabbito (<i>Institut de Génomique Fonctionnelle, Montpellier</i>)
11:20	Coffee break
11:40	Uncovering new interaction partners for the GPCRome Albert Kooistra (<i>University of Copenhagen</i>)
12:10	Using systems biology to study chemokine signalling in the CXCL12/CXCR4/ACKR3 axis Kylie Pan (<i>InterAx Biotech</i>)
12:30	Lunch break and poster session
Session 2: Chemokine receptors and RTKs in Immuno-Oncology	
14:00	Investigating the mode of action of anti-inflammatory small molecules at CXCR4 Birgit Caspar (<i>University of Paris</i>)
14:20	The HER2-CB2R dimer: a new therapeutic target and patient screening tool in oncology Christina Sanchez (<i>Universidad Complutense de Madrid</i>)
14:50	The CXCR4/ACKR3/GRK2/Lyn signaling module in the tumor microenvironment Viviana Marolda (<i>Universidad Autonoma de Madrid</i>)
15:10	Contribution of the CXCL12 axis to the skin homeostasis and Human Papillomavirus life cycle Gabriela Cuesta Margolles (<i>INSERM, Paris</i>)
15:30	Coffee break
Session 3: G protein-dependent and independent GPCR Signaling	
16:00	TBD Evi Kostenis (<i>University of Bonn</i>)
16:40	The two endogenous ACKR3 agonists exhibit distinct effects on β-arrestin 2 Nourelidine Youssef (<i>University of Jena</i>)
17:00	The multilevelled regulatory role of ACKR3 in the opioid network Christie Palmer (<i>Luxembourg Institute of Health</i>)
17:20	Effect of the interactions between adrenomedullin and CXCR4 Pietro Cocchiara (<i>University of Glasgow</i>)
17:40	Drinks and Poster session
18:30	Buffet Diner

Day 2: 1 September 2023 (Friday)

Session 4: GPCR dynamics and signaling

- 09:00 **Ligand-promoted pathway and location biases; two aspects of GPCR functional selectivity**
Michel Bouvier (*Université de Montréal*)
- 09:40 **Differential modulation of atypical chemokine receptor 3 (ACKR3) by nanobodies**
Claudia Perez (*Vrije Universiteit Amsterdam*)
- 10:00 **Development of novel single-color biosensor for GPCRs**
Romy Thomas & Ziming Wang (*Max Delbrück Center, Berlin*)
- 10:30 **Plasma membrane organisation and dynamics of CXCR4 and ACKR3**
Noemi Karsai (*University of Nottingham*)

10:50 Coffee break

Session 5: Nanobodies targeting GPCRs and RTKs

- 11:20 **Mechanism and function of endocytosis of nanobody drug conjugates**
Paul van Bergen en Henegouwen (*Utrecht University*)
- 11:50 **Nanobody-based detection of receptor clusters via BRET and PLA**
Stephie Anbuhl (*QVQ*) & Dehan Comez (*University of Nottingham*)

Session 6: ONCORNET2.0, a GPCR community collaboration

- 12:20 **Ambidextrous co-value creation in the ONCORNET 2.0 consortium**
Sneha Saha (*Vrije Universiteit Amsterdam*)
- 12:40 **Closing remarks**
Martine Smit (*Vrije Universiteit Amsterdam*)

13:00 Lunch break