

# Day 1: Dec. 12, 2025

8:00am - 9:00am Breakfast (included)

9:00am - 12:00pm Brian's Birthday Session  
*(alumni + anyone who wants to hang out)*

12:00pm - 1:00pm Lunch

2:00pm - 4:00pm **REGISTRATION**

**Session 1**     **Chair: Brian Kobilka**  
*Stanford University*

4:00pm - 4:05pm Welcome: Brian Kobilka

**Brian Kobilka**  
*Stanford University*

4:05pm - 4:45pm

Receptor-stimulated G12 signaling regulates key metabolic functions

**Jürgen Wess**  
*NIDDK, NIH*

4:45pm - 5:25pm

Uncovering unconventional GPCR stimuli

**Aashish Manglik**  
*UCSF*

5:25pm - 6:05pm

Translational mechanisms for GPR75 loss-of-function driving protection from obesity

**Judith Altarejos**  
*Regeneron Pharmaceuticals*

6:05pm – onward Reception

# Day 2: Dec. 13, 2025

7:30am - 8:20am Breakfast (included)

## Session 2 **Chair: Brian Kobilka** *Stanford University*

8:20am – 9:10am Higher Order Transient Structures and the Principle of Dynamic Connectivity in Membrane Signaling

**Rod MacKinnon**  
*The Rockefeller University*

9:10am – 9:50am Exploring the Subcellular Organization of GPCR Signaling

**Mark von Zastrow**  
*UCSF*

9:50am – 10:05am SHORT TALK #1

tbd

10:05am – 10:25am Break

10:25am - 11:05am Arrestin binding to GPCRs lacking the C-tail

**Irene Coin**  
*Leipzig University*

11:05am - 11:45am A structural view of MC4R signaling induced by ligands and genetic variants relevant to body weight regulation

**Patrick Scheerer**  
*Charité Universitätsmedizin Berlin*

11:45am - 12:25pm Computational reprogramming of GPCR signal transduction

**Patrick Barth**  
*Ecole Polytechnique Fédérale de Lausanne*

12:25pm - 3:00pm Lunch and Poster Viewing

## Session 3

**Chair: Jürgen Wes**

*NIDDK, NIH*

3:00pm - 3:40pm Structure and function of non-canonical GPCR signaling complexes

**Kirill Martemyanov**  
*University of Florida*

3:40pm - 4:20pm Mechanistic insights into G-protein coupling with an agonist-bound GPCR: implications for coupling specificity

**Peter Hildebrand**  
*Leipzig University*

4:20pm - 5:00pm A new type of biosensor to dissect GPCR conformational equilibria in intact cells

**Andreas Bock**  
*University Medical Center Mainz*

5:00pm - 6:00pm Poster Session

6:00pm - 8:00pm Dinner

8:00pm - 10:00pm INTERACTIVE SESSION #1

**Roger Sunahara**  
*UCSD*

## Day 3: Dec. 14, 2025

7:30 - 8:30 am Breakfast (included)

### Session 4 **Chair: Aashish Manglik** *UCSF*

8:30am - 9:10am Leveraging Computational and Experimental Data to Advance Knowledge of GPCR Signaling and Drug Discovery

**Marta Filizola**  
*Icahn School of Medicine  
at Mount Sinai*

9:10am - 9:25am SHORT TALK #2

9:25am - 10:05am New insights into the spatiotemporal organization of GPCR signalling

**Davide Calebiro**  
*University of Birmingham*

10:05am - 10:25am Break

10:25am - 11:05am How to transduce force into biochemical commands – Mechanosensing by adhesion GPCRs

**Tobias Langenhan**  
*Leipzig University*

11:05am - 11:45am Structure and function of GPCR-toxin complexes

**Sébastien Granier**  
*Institut de Génomique Fonctionnelle, CNRS/INSERM/  
Université de Montpellier*

11:45am - 12:00pm SHORT TALK #3

**tbd**

12:00PM - 3:00 pm Lunch / Time Off / Posters

## Session 5 **Chair: Sebastien Granier**

*Institut de Génomique Fonctionnelle, CNRS/INSERM/Université de Montpellier*

3:00pm - 3:40pm Unconventional GPCR Signaling in the Hedgehog Pathway and Beyond

**Ben Myers**

*Huntsman Cancer Institute, University of Utah*

3:40pm - 4:20pm Exploring non-canonical signaling mechanisms across diverse GPCRs

**Ruth Huttenhain**

*Stanford University*

4:20pm - 5:00 pm Conformational coupling between extracellular and transmembrane domains modulates holo-adhesion GPCR function

**Demet Arac**

*University of Chicago*

5:0pm - 6:00pm Poster Session

6:00pm - 8:00pm Dinner

8:00pm - 10:00pm INTERACTIVE SESSION #2

**Mark von Zastrow**

*UCSF*

## Day 4: Dec. 15, 2025

7:30am - 8:30am Breakfast (included)

### Session 6 **Chair: Mark von Zastrow** *UCSF*

8:30am – 9:10am Exploring Intracellular GPCRs and Their Role in Pathway Crosstalk

**Nina Tsvetanova**  
*Duke University*

9:10am - 9:25am SHORT TALK #4

**tbd**

9:25am- 10:05am A Survival Pressure Selection method for GPCR drug screening

**Xiangyu Liu**  
*Tsinghua University*

10:05am - 10:25am Break

10:25am - 11:05am Using nanobodies as tools to interrogate and control GPCR signaling

**Andrew Kruse**  
*Harvard Medical School*

11:05am - 11:45am Assembly required – how cells build functional ion channel complexes

**Tino Pleiner**  
*Stanford University*

11:45am - 12:00pm Short Talk #5

**tbd**

12:00pm - 3:00pm Lunch and Poster viewing  
*(Poster takedown at end of this session)*

## Session 7

**Chair: Aashish Manglik**  
*UCSF*

3:00pm - 3:40pm Application of genetically encoded dopamine and 2<sup>nd</sup> messenger sensors challenge paradigms of dopamine receptor signaling in the striatum

**Ulrik Gether**  
*University of Copenhagen*

3:40pm - 4:20pm The role of protein dynamics in GPCR signaling/  
Closing Remarks

**Brian Kobilka**  
*Stanford University*

4:20pm - 5:00pm Conference Discussion / Closeout

**6:00pm - 10:00pm Banquet Dinner**