December 12

8:00 – 9:00 AM

- Breakfast

9:00 AM – 12:00 PM

- Brian's Birthday Session (alumni + anyone who wants to hang out)

12:00 – 1:00 PM

- Lunch

2:00 – 4:00 PM

- Registration

4:00 – 4:05 PM

- Welcome: Brian Kobilka (*Stanford University*)

Talks

- 4:05 – 4:45 PM
  Jürgen Wess (*NIDDK, NIH*)
  Receptor-stimulated G12 signaling regulates key metabolic functions
- 4:45 – 5:25 PM
  Aashish Manglik (*UCSF*)
  Uncovering unconventional GPCR stimuli
- 5:25 – 6:05 PM
  Judith Altarejos (*Regeneron Pharmaceuticals*)
  Translational mechanisms for GPR75 loss-of-function driving protection from obesity

6:05 PM – onward

- Reception

December 13

7:30 – 8:20 AM

- Breakfast

Morning Session

- 8:20 – 9:10 AM
  Rod MacKinnon (*The Rockefeller University*)
  Higher Order Transient Structures and the Principle of Dynamic Connectivity in Membrane Signaling
- 9:10 – 9:50 AM
  Mark von Zastrow (*UCSF*)
  Exploring the Subcellular Organization of GPCR Signaling
- 9:50 – 10:05 AM
  Short Talk #1 (15 min)
- 10:05 – 10:25 AM
  Break (20 min)
- 10:25 – 11:05 AM
  Irene Coin (*Leipzig University*)
  Arrestin binding to GPCRs lacking the C-tail
- 11:05 – 11:45 AM
  Patrick Scherrer
  (Title TBA)
- 11:45 – 12:00 PM
  Short Talk #2 (15 min)

12:00 – 3:00 PM

- Lunch / Time Off / Posters

Afternoon Session

- 3:00 – 3:40 PM
  Kirill Martemyanov (*University of Florida*)
  Structure and function of non-canonical GPCR signaling complexes
- 3:40 – 4:20 PM
  Peter Hildebrand (*Leipzig University*)
  Mechanistic insights into G-protein coupling with an agonist-bound GPCR: implications for coupling specificity
- 4:20 – 5:00 PM
  Andreas Bock (*Leipzig University*)
  A new type of biosensor to dissect GPCR conformational equilibria in intact cells

5:00 – 6:00 PM

- Poster Session

6:00 – 8:00 PM

- Dinner

8:00 – 10:00 PM

- Interactive Session

December 14

7:30 – 8:30 AM

- Breakfast

Morning Session

- 8:30 – 9:10 AM
  Marta Filizola (*Icahn School of Medicine at Mount Sinai*)
  Leveraging Computational and Experimental Data to Advance Knowledge of GPCR Signaling and Drug Discovery
- 9:10 – 9:25 AM
  Short Talk #1 (15 min)
- 9:25 – 10:05 AM
  Davide Calebiro (*University of Birmingham*)
  New insights into the spatiotemporal organisation of GPCR signalling
- 10:05 – 10:25 AM
  Break (20 min)
- 10:25 – 11:05 AM
  Tobias Langenhan (*Leipzig University*)
  How to transduce force into biochemical commands – Mechanosensing by adhesion GPCRs
- 11:05 – 11:45 AM
  Sébastien Granier (*Institut de Génomique Fonctionnelle, CNRS/INSERM/Université de Montpellier*)
  (Title TBA)
- 11:45 – 12:00 PM
  Short Talk #2 (15 min)

12:00 – 3:00 PM

- Lunch / Time Off / Posters

Afternoon Session

- 3:00 – 3:40 PM
  Ben Myers (*Huntsman Cancer Institute, University of Utah*)
  Unconventional GPCR Signaling in the Hedgehog Pathway and Beyond
- 3:40 – 4:20 PM
  Ruth Huttenhain (*Stanford University*)
  Exploring non-canonical signaling mechanisms across diverse GPCRs
- 4:20 – 5:00 PM
  Demet Arac (*University of Chicago*)
  Conformational coupling between extracellular and transmembrane domains modulates holo-adhesion GPCR function

5:00 – 6:00 PM

- Poster Session

6:00 – 8:00 PM

- Dinner

8:00 – 10:00 PM

- Interactive Session

December 15

7:30 – 8:30 AM

- Breakfast

Morning Session

- 8:30 – 9:10 AM
  Nina Tsvetanova (*Duke University*)
  Exploring Intracellular GPCRs and Their Role in Pathway Crosstalk
- 9:10 – 9:25 AM
  Short Talk #1 (15 min)
- 9:25 – 10:05 AM
  Xiangyu Liu (*Tsinghua University*)
  A Survival Pressure Selection method for GPCR drug screening
- 10:05 – 10:25 AM
  Break (20 min)

- 10:25 – 11:05 AM
  Andrew Kruse (*Harvard Medical School*)
  Using nanobodies as tools to interrogate and control GPCR signaling
- 11:05 – 11:45 AM
  Tino Pleiner (*Stanford University*)
  Assembly required – how cells build functional ion channel complexes
- 11:45 – 12:00 PM
  Short Talk #2 (15 min)

12:00 – 3:00 PM

- Lunch / Time Off / Posters (Poster takedown at end of this session)

Afternoon Session

- 3:00 – 3:40 PM
  Ulrik Gether (*University of Copenhagen*)
  Application of genetically encoded dopamine and 2nd messenger sensors challenge paradigms of dopamine receptor signaling in the striatum
- 3:40 – 4:20 PM
  Brian Kobilka (*Stanford University*)
  (Title TBA / Closing Remarks)
- 4:20 – 5:00 PM
  Conference Discussion / Closeout

6:00 – 10:00 PM

- Banquet Dinner