

University of Washington
INSTITUTE FOR STEM CELL AND REGENERATIVE MEDICINE
Symposium
Friday, April 5, 2019
Orin Smith Auditorium

Program

12:30 – 1:15	Hans Clevers, MD, PhD
1:20 – 1:40	Lightning Talks
1:45 – 2:10	Kristin Knouse, MD, PhD
2:15 – 2:40	Benjamin Freedman, PhD
2:45 – 3:05	Break & Poster Session
3:10 – 3:30	Lightning Talks
3:35 – 4:20	Paula Amato, MD, MCR
4:25 – 5:10	Juergen Knoblich, PhD
5:15 – 6:30	Catered Reception & Poster Session

12:30 – Opening Remarks (Given by Hannele Ruohola-Baker)

12:30-1:15 – Featured Speaker (Introduced by Chuck Murry)

Hans Clevers, MD, PhD, Hubrecht Institute (Trainee host: Sarah Saxton)
Organoids to model human disease

1:20-1:40 – Lightning Talks (Hosted by David Mack)

- **Alessandro Bertero**
Dynamics of genome reorganization during human cardiogenesis reveal an RBM20-dependent splicing factory
- **Shawn Luttrell**
Biochemical and physical cues combine to augment iPSC-derived skeletal muscle differentiation and maturation for improved disease modeling
- **Shiri Levy**
Targeted gene activation directs trophoblast trans-differentiation using the novel designed epigenetic inhibitor, EED binder-dCAS9
- **Daniel Corbett**
Thermofluidics for spatial control of gene activation

1:45-2:10 – Featured Speaker (Introduced by Kelly Stevens)

Kristin Knouse, MD, PhD, Whitehead Institute for Biomedical Research (Trainee host: Chelsea Fortin)
The importance of tissue architecture for chromosome segregation fidelity in epithelia

2:15-2:40 – Featured Speaker (Introduced by Sergei Doulatov)

Benjamin Freedman, PhD, University of Washington School of Medicine
Human Kidney Organoids for Phenotypic Screening and Therapy Development

3:10-3:30 – Lightning Talks (Hosted by David Mack)

- **Danny El-Nachef**
Tracking Dynamic Behaviors of Pluripotent and Differentiated Induced Pluripotent Stem Cells with a Rainbow Lineage Reporter
- **Madeleine Hewitt**
Investigating the role of mechanosensing during hair cell regeneration
- **Swati Mishra**
Investigating the role of sortilin-related receptor (SORLA) in human induced pluripotent stem cells derived neural cells as a therapeutic target for Alzheimer's Disease
- **Brent Wilkerson**
Open chromatin dynamics in prosensory cells of the embryonic mouse cochlea

3:35-4:20 – Featured Speaker (Introduced by Julie Mathieu)

Paula Amato, MD, MCR, Oregon Health & Science University (Trainee host: Elisa Clark)
Human Germline Gene Therapy

4:25-5:10 – Featured Speaker (Introduced by Dan Doherty)

Juergen Knoblich, PhD, Institute of Molecular Biotechnology (Trainee host: Refugio Martinez)
Cerebral organoids: modelling human brain development and tumorigenesis in stem cell derived 3D culture

5:10 – Closing Remarks (Given by Carol Ware)