2nd Annual POSTDOC SYMPOSIUM

June 7th, 2019 - Kroon Hall, Yale

Communicate your research

Explore the diversity of postdoctoral research at Yale

Connect with other postdocs
Dear Fellow Postdocs,

We are delighted to welcome you to the Second Annual Postdoc Symposium! Yale is home to over 1200 postdocs, from more than 70 countries, working in over 60 different departments and covering an impressive range of disciplines. The Postdoc Symposium is nothing less than a celebration of this research diversity. With the motto

**Communicate • Explore • Connect**

we envision this event as a platform to:

Communicate your research to your colleagues, especially to the ones whose research may be a world away from your main topic.

Explore the scope of different research projects, dive into the diverse methodology that is employed in various fields.

Connect with colleagues from research units across the campus who may face similar challenges of being a junior scientist in the contemporary social and economic climate, but who are also driven by passion towards research.

Our special Thanks go to the generous sponsors from both within the Yale Community and from the external funders.

We look forward to the impactful, thought-provoking discussions accompanied with new collaborations and friendships!

Respectfully, From Postdocs to Postdocs

---

**The organizers (2018-2019)**

Elizabeth Acorn
Nadia Ayala-Lopez
Barbara Banz
Maikel Boot
Ilaria Domenicano
Sam Dundon
Maria Ferrara
Rolando Garcia Milian
Pol Arranz-Gilbert
Anupama Hemalatha
**Radoslav Janostiak**

Alexandre Jourdon
Marianna Leonzino
Susree Modepalli
Giani Pezzullo
Mancy Tong
Berrak Ugur
Chantal Vogels
Jianyu (Daniel) Wu
**Anne Wyllie**
Kelson Zawack
This event would not have been possible without the following sponsors. The YPA is grateful for their participations and support to make this second symposium a success.

- Office for Postdoctoral Affairs
- Yale School of Public Health
- The Kavli Foundation
- Office of International Students & Scholars
- Yale School of Medicine and the following Departments:
  - Genetics
  - Cell Biology
  - Molecular Biophysics and Biochemistry
  - Neuroscience
- Cushing/Whitney Medical Library
- Deputy Provost for Collections & Scholarly Communications
Schedule

**Morning**

8:00 - 8:30  Registration & Coffee
8:45 - 9:00  Welcoming Remarks
9:00 - 10:00  Session I
10:00 - 10:15  “Art in Research” Awards
10:15 - 11:15  Poster Session I (odd numbers)
11:15 - 12:15  Session II
12:15 - 1:00  Lunch

**Afternoon**

1:00 - 2:00  Session III
2:00 - 3:00  Poster Session II (even numbers)
3:00 - 4:00  Session IV
4:00 - 5:00  Keynote speech  **Carl Zimmer**
5:00 - 5:15  Award Session
5:30 -  Social Event at Kroon Hall

**Evening**

8:30 pm  **Symposium After Party** at Jack’s Bar, 212 College St
Session I

- **Jessica Kenigson**: Relationship between Arctic Ocean Circulation and Air-Sea Exchanges in the Nordic Seas.

- **Ni Feng**: Surviving without water: regulation of fluid homeostasis during hibernation.

- **Alexandre Jourdon**: Modeling the development of the human brain in a dish: the potential of cortical organoids to reveal the etiology of neurodevelopmental disorders.

- **Jennifer Blackburn**: Sub-chronic administration of metformin selectively protects primate dopamine neurons from methamphetamine-induced damage: investigations on its mechanism and potential use in Parkinson’s disease.

- **Nicole Bertoletti**: Structural insights into the recognition of NRTIs by HIV-1 reverse transcriptase.

- **Amanda Dettmer**: Early life influences on the gut microbiome across development in rhesus monkeys.

- **Susree Modepalli**: Pack up and Move out: Exportin7 and Red Cell Maturation.

- **Ali Hamodi**: Learning to see with closed eyes: Retinal waves tune cortical neurons before eye opening.

- **Liu Yang**: Paratransgenic manipulation of tsetse miR275 expression during trypanosome infections.

- **Sylvie Estrela**: The emergence of microbial community variability in simple and similar environments.

*Bold title*: 10 min talk

All the other talks are 3 min talk
- **Eric Woodcock**: Stress modulates cigarette cue-reactivity and increases nicotine-seeking behavior among cigarette smokers.

- **Julia Rozanova**: “The hardest thing is to return to who I was before the diagnosis”: Gendered stigma among Naïve Older Patients presenting to HIV care in Ukraine.

- **Matthew Goldberg**: Heterogeneity in Effect Sizes in Research on Climate Change Communication.

- **Joan Ricart-Huguet**: When the Sorting Hat Sorts Randomly: A Natural Experiment on Culture.

- **Rongting Wu**: Synthesis and characterization of large-area single-crystal sheets of borophene on Cu(111) surface.

- **Maikel Boot**: The role of phenotypic heterogeneity of single mycobacterial cells during infection.

- **Summer Thompson**: A role for the gut microbiome in decision-making in mice.

- **Viktor Feketa**: Identification of the molecular sensor of cold temperature in the brain.

- **Esther Florsheim**: Immune-mediated allergen sensing controls avoidance behavior.

- **Valerie Tornini**: Deciphering the Roles of Autism Risk Genes on Vertebrate Brain Development.
- **Nikolas Guggenberger**: Resolving the Attention Tragedy - To fix public discourse, cap and trade attention, and tax advertisement revenues.

- **Tiffany Li**: Robotic Authors and Romantic Authors: Toward a New Copyright Law Framework for Non-Human Creators.

- **Erin Borchardt**: Investigating RNA Pseudouridylation Patterns in Viral Infection.

- **Lingrui Liu**: District-level health management and health system performance: Two-year longitudinal evaluation of the primary healthcare transformation initiative.

- **Suhas Ganesh**: Characterizing Cannabinoid Induced Acute Persistent Psychosis (CIAPP) as a Possible Subtype of Schizophrenia Using Deep Learning.

- **Jens Neu**: Terahertz Conductivity in Biological Nanowires.

- **Michal Marczyk**: Targeting loss of isozyme diversity as a novel therapeutic strategy in cancer.

- **Daniela Schneider**: Distribution and potential functional effects of Spiroplasma infections in the African tsetse fly.

- **Stacey-Lynn Paiva**: Beyond hijacking protein degradation machinery for selective protein homeostasis: Developing Tissue-Specific Proteolysis Targeting Chimeras (PROTACs) for use in Cancer Therapeutics.

- **Yifan Yuan**: Engineering of pulmonary microvasculature using a purified pulmonary microvascular endothelium.
Session IV

- **Onur Iyilikci**: Revealing Key Neuronal Mechanisms in the Development of Social Reward Processing.

- **Mancy Tong**: Neutrophil Activation at the Fetal Membranes: Importance in Preterm Birth.

- **Frank Wendt**: Deciphering the biological mechanisms underlying associations between computerized device use and psychiatric disorders.

- **Maria Tokuyama**: Transcriptome analysis of endogenous retroviruses in health and disease.

- **Jiri Cerny**: The devil is in the detail - Feeding on different host species affects composition of proteins secreted in tick saliva which may have an important effect on transmission of tick-borne pathogens.

- **Chantal Vogels**: Virus coinfection and co-transmission: A neglected public health concern?

- **Mark Moyle**: Building a brain: Systematic examination of the architecture and developmental assembly of the C. elegans brain.

- **Dhanusha Nalawansha**: Targeted Degradation of Extracellular Proteins by ENDosome TArgeting Chimeras.

- **Alessandra Cavaliere**: Non-invasive imaging to track an antibody drug in animal models of breast cancer.

- **Xiaoyu Liang**: DNA methylation signature of Phosphatidylethanol (PEth) Predicts Alcohol Misuse.