

31st Center for the Study of Inflammatory Bowel Disease Symposium November 18-19th, 2021

Thursday – November 18th, 2021

8:50 – 9:00 CSIBD Overview - Ramnik J. Xavier, M.D., Director

Session I Innate sensing at the host-microbe interface

(Moderators: Gail Hecht / Cheri Sirois)

9:00 - 9:30 Kate Fitzgerald, Ph.D. - "Mechanisms involved in the restriction of SARS-CoV2 Infection."

9:30 - 10:00 Feng Shao, Ph.D. - "Pyroptosis in antibacterial & antitumor immunity"

10:00 - 10:30 Hao Wu, Ph.D. - "Trapped in droplets: A new mode of sensing danger"

10:30 - 11:00 Jonathan Kagan, PhD. - "Initiation and Regulation of Innate Immunity"

Keynote I

11:00 - 12:00 Jenny Ting, Ph.D. - "Innate immune receptors: their links to adaptive immunity and the microbiome"

12:00-1:00 Break

Session II Microbe engineering and microbial therapies

(Moderators: Curtis Huttenhower, Hera Vlamakis)

1:00 - 1:30 Nicola Segata, Ph.D. - "Metagenomic modelling of fecal microbiota transplantation"

1:30 - 2:00 Ben Boursi, M.D. - "Microbiota and cancer - an ecological journey"

2:00 - 2:30 Matthew Henke, Ph.D. "Characterization of narrow-spectrum antibiotics from patient isolates of *Ruminococcus gnavus*"

2:30 - 3:00 Cammie Lesser, M.D., Ph.D. - "Engineered bacteria for the site specific delivery of therapeutics to the gut"

3:00 - 3:30 Justin Sonnenburg, Ph.D. - "Engineering and Rewilding the Gut Microbiome"

3:30 - 4:00 Gautam Dantas, Ph.D. - "Predicting and Combating Biotic and Abiotic Disruptions to Diverse Microbiomes"

4:00 - 5:00 **Roundtable: The Path to Microbiome-based Therapies**

(co-sponsored by CMIT)

The Symposium is open to the research community at no charge.
To register, please sign up at http://broad.io/CSIBD_Immuno_Symposium2021

Friday – November 19th, 2021

Session III Inflammation and myeloid cell biology

(Moderators: Charles Elson / Jacques Deguine)

- 9:00 - 9:30 *Hilary Finucane, Ph.D.* - "Leveraging polygenic enrichments of gene features to predict genes underlying complex traits and diseases"
- 9:30 - 10:00 Sun Hur, Ph.D. - "Molecular mechanism for self vs. non-self RNA discrimination"
- 10:00 - 10:30 *Hailiang Huang, Ph.D.* "Large-scale sequencing and multi-ancestry genetic analyses identify novel genes and variants associated with IBD"
- 10:30 - 11:00 Rosandra Kaplan, M.D. - " Myeloid biology in dysregulated microenvironments and therapeutic opportunities"
- 11:00 - 11:30 Ruslan Medzhitov, Ph.D. - "Nutrient adaptation in the intestine"
- 11:30 - 12:00 Katrin Andreasson, M.D. - "Immune-metabolic mechanisms of cognitive decline in aging"
- 12:00 - 1:00 Break

Keynote II

1:00 - 2:00 Richard Flavell, Ph.D., FRS - "Commensal derived metabolites promote pro-inflammatory T cell differentiation and IBD pathogenesis"

Session IV Metabolism and Immunity

(Moderators: Thad Stappenbeck / Andrew Luster)

- 2:00 - 2:30 Ana Domingos, Ph.D. - "Neuroimmunometabolism"
- 2:30 - 3:00 Luke O'Neill, Ph.D. - "Immunometabolism meets Immunothrombosis"
- 3:00 - 3:30 Lydia Lynch, Ph.D., - "Diet, lipids and anti-tumor immunity"
- 3:30 - 4:00 Hongbo Chi, Ph.D. - "Integrating metabolism with systems immunology in immunity and disease"
- 4:00 - 4:30 *Tracey Simon, M.D.* - "Race, Lifestyle and Lipids: Improving Prediction of Hepatocellular Carcinoma"

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