

Wednesday, November 30th, 2022

Opening Remarks: David Page & Lydia Lynch
9:45am – 10:00am (GMT-5:00)

Session 1: Sex Chromosome Dosage – chair: David Page, Whitehead Institute
10:00am – 11:20am (GMT -5:00)

- Jean-Charles Guery, “Sex differences in nucleic acid sensing: role of sex hormones and X chromosome”
- Montserrat Anguera, “X-Chromosome Inactivation Mechanisms in the Immune System: Understanding the Origins of Female-Biased Autoimmune Disease”
- Eda Yildirim, “Balancing X-Chromosome Dosage in Hematopoietic Cells: Mechanistic Insights and Impact on Cancer” (*invited abstract*)
- Peter Campbell, “Somatic mutations and selection in lymphocytes”

Session 2: Evolution & Comparative Biology – chair: Lydia Lynch, Harvard Medical School & Trinity College Dublin
12:00pm – 1:00pm (GMT -5:00)

- Kate Buckley, “System-wide immune responses of sea urchin larvae reveal both deep evolutionary conservation as well as novel strategies of host defense”
- Adrianna San Roman, “Sex chromosome number cell-autonomously affects global gene expression” (*invited abstract*)
- Thomas Boehm, “Immunogenetics of sexual parasitism”

Thursday, December 1st, 2022

Session 3: Neuroimmunity – chair: Kathryn Lenz, The Ohio State University
10:00am – 11:20 am (GMT -5:00)

- Margaret McCarthy, “Microglia sculpt developing social circuits by controlling cell number differently in males and females”
- Sarah Ocañas, “Sexually divergent microglial transcriptomic responses to aging in the mouse hippocampus” (*invited abstract*)
- David Loane, “Sex difference in neuroimmune responses to TBI”
- Staci Bilbo, “Sex differences in microglia and implications for neural development”

Session 4: Infection & inflammation – chair: Marcus Altfeld, Leibniz Institute of Virology
12:00pm – 1:20pm (GMT -5:00)

- Petter Brodin, “System-level adaptation to testosterone treatment during ‘Female-to-Male sex reassignment’”

- Léa Deltourbe, “Sex differences in the human immune response to infection” (*invited abstract*)
- Hannelore Lotter, “Myeloid cells and sex differences in parasitic diseases”
- Yasmine Belkaid

Virtual Poster Session

1:30pm – 2:30pm (GMT -5:00)

Posters will be conducted via Zoom breakout rooms. Please see the website for a list of poster titles.

Friday, December 2nd, 2022

Session 5: Immunometabolism – chair: George Caputa, Nature

10:00am – 11:00am (GMT -5:00)

- Aldons J. Lusic, “A systems genetics approach to sex differences”
- Elizabeth (Lizzy) Rosser, “Sex, oxysterols, and the extrafollicular B cell response in juvenile-onset SLE” (*invited abstract*)
- Erin West, “The complosome: A key orchestrator of immunity and metabolism”

Session 6: Systems immunology – chair: Cliona O’Farrelly, Trinity College Dublin

12:00pm – 1:20pm (GMT -5:00)

- Andrea Edlow, “Maternal Obesity and Sex Differences In Fetal Brain and Placental Immune Programming”
- Lara Henze, “The effect of testosterone on human T cells in health and autoimmune liver disease” (*invited abstract*)
- Benjamin Grünhagel, “Effects of Testosterone on Type I Interferon Production by Plasmacytoid Dendritic Cells in transgender men” (*invited abstract*)
- Darragh Duffy, “Understanding age and sex effects on healthy immune responses”

Closing Remarks – Cliona O’Farrelly & Marcus Altfeld

1:20pm (GMT -5:00)