

# Systems Immunology Workshop 2015

## Cincinnati Children's Medical Center



**Monday, October 26**  
**Kingsgate Marriott Conference Center**

- 8:00 – 9:00 **Breakfast**
- 9:00 **Introductory Remarks**, Harinder Singh
- 9:10 **Oren Parnas** (A. Regev Lab, MIT)  
Dissection of regulatory networks in primary immune cells using a genome-wide CRISPR-Cas9 library
- 9:40 **Naeha Subramanian** (Institute for Systems Biology, Seattle)  
Innate Sensing, Inflammasomes and NLRs: New Insights Revealed by Imaging and Systems Approaches
- 10:10 **Christopher Vollmers** (University of California Santa Cruz)  
Improving Immune Repertoire Sequencing: Towards the Accurate Profiling of the Adaptive Immune System
- 10:40 **Coffee Break**
- 11:10 **Alexandra-Chloé Villani** (N. Hacohen Lab, Harvard Medical School)  
Discovery of dendritic cell sub-populations in human blood by single cell RNA-sequencing
- 11:40 **David Furman** (M. Davis Lab, Stanford University)  
Embracing Human Variation Through Systems Immunology
- 12:10 **Lunch**
- 2:00 **Alon Oyler-Yaniv** (G. Altan-Bonnet Lab, Memorial Sloan Kettering)  
Spatial Effects on Cytokine Signalling Between T Cells
- 2:30 **Nathan Salomonis** (CCHMC)  
An integrated and automated approach for identifying rare single-cell populations from RNA-Seq
- 2:45 **Heping Xu** (H. Singh Lab, CCHMC)  
Visualizing germinal center B cell fate dynamics with single-cell transcriptome resolution
- 3:00 **Coffee Break**
- 3:30 **Rachel Gottschalk** (R. Germain Lab, NIH)  
Contextual Control of TLR-induced Responses by Divergent Signaling Thresholds
- 4:00 **Grégoire Altan-Bonnet** (Memorial Sloan Kettering)  
Single-Cell Dissection of the Dysregulation of Antigen Signaling in Chronic Lymphocytic Leukemia (CLL)
- 5:00 – 6:30 **Reception, CCHMC T Building, 14<sup>th</sup> floor**

**Tuesday, October 27**  
**Kingsgate Marriott Conference Center**

- 8:00 – 9:00    **Breakfast**
- 9:00            **Introductory Remarks**, Andrew Herr
- 9:10            **Louise Scharf** (P. Bjorkman Lab, Caltech)  
Engineering Immunity against HIV-1
- 9:40            **John Barton** (A. Chakraborty Lab, MIT)  
Predicting HIV evolution in response to host immune pressure
- 10:10          **Daved Fremont** (Washington University St. Louis)  
Mechanisms of viral immune evasion
- 10:50          **Coffee Break**
- 11:20          **Kurt Piepenbrink** (E. Sundberg Lab, University of Maryland)  
Building a Better Mouse TCR: Considerations in Engineering a Stronger  
Cytotoxic Immune Response
- 11:50          **Joseph Fraietta** (C. June Lab, University of Pennsylvania)  
Ibrutinib Enhances Chimeric Antigen Receptor T-cell Engraftment and  
Efficacy in Leukemia
- 12:20          **Concluding Remarks**, Andrew Herr and Harinder Singh

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