

## TUESDAY, APRIL 11, 2017

12:00 – 1:00     **Lunch** – Nolen Gallery

### Session 1 – Grand Ballroom B/C

*Chairs – Christine Nelson (U of M) and Ryan Duncombe (UChicago)*

1:10 - 1:20     Opening remarks, **Pete Savage** (UChicago)

1:20 - 1:40     **Charlie Dulberger** (UChicago, Adams)  
*The MHC-Ib molecule HLA-F presents peptides and regulates immunity through interactions with NK-cell receptors*

1:40 - 2:00     **Haiguang Wang** (UofM, Hogquist)  
*CCR7 defines a multipotent progenitor for iNKT cells in thymus and periphery*

2:00 - 2:20     **Pedro Belda-Ferre** (UChicago, Nagler)  
*Identification of an epithelial-adherent microbiota that is associated with cow's milk allergy*

2:20 - 2:40     **Katie Murphy** (UofM, Griffith)  
*Increased leptin during obesity abrogates antitumor immunity*

2:40 - 3:00     **Cara Hrusch** (UChicago, Sperling)  
*ICOS+ innate lymphocytes protect against lung injury-induced mortality by production of IL-5*

3:00 - 3:40     **Break and check in**

3:40 - 3:52     **Dmitri Kotov** (UofM, Jenkins)  
*Histocytometry of cell interactions*

3:52 - 4:04     **Jun Huang** (UChicago)  
*Single-molecule measurements of in situ receptor-ligand interactions*

4:04 - 4:16     **Katie Block** (UofM, Jameson)  
*Dirty mice*

4:16 - 4:28     **Justin Kline** (UChicago)  
*Tracking antigen-specific T cell responses in a genetic model of AML*

4:28 - 4:40     **Jessica Fiege** (UofM, Langlois)  
*Flu infection tracing*

4:40 - 4:52     **Fontini Gounari** (UChicago)  
*Making a fluorescent  $\beta$ -catenin timer to follow the life cycle of the protein*

4:52 - 5:04     **Mike Goldberg** (UofM, Jenkins)  
*CD4+ T cell control of Salmonella infection and persistence is dependent on different macrophage subsets*

5:04 - 5:16     **Marcus Clark** (UChicago)  
*Mapping adaptive cell networks in human inflammation*

6:00 – 7:30     **Dinner** – Nolen Gallery

7:30 – 9:30 **Poster Session 1 (Last Initials A-K)** – Grand Ballroom B/C

9:30 – 12:00 **Outliers Band** – Grand Ballroom B/C

## **WEDNESDAY, APRIL 12, 2017**

8:00 - 9:00 **Breakfast** – Nolen Gallery

### **Session 2 – Grand Ballroom B/C**

*Chairs – Dmitri Kotov (U of M) and Chris Stamper (UChicago)*

9:10 - 9:30 **Christine Nelson** (UofM, Vezys)  
*Utilizing self-specific CD8 T cells for the treatment of cancer*

9:30 - 9:50 **Brendan Horton** (UChicago, Gajewski)  
*Apoptosis of Tumor Infiltrating CD8+ T Cells Limits Tumor Immunity and is Reversed by agonist 4-1BB Combination Immunotherapy*

9:50 - 10:10 **Ben Brian** (UofM, Freedman)  
*The role of the Src-family Kinase LynA in macrophage-targeted cancer therapy*

10:10 - 10:30 **Jayoung Choi** (UChicago, Hwang)  
*Targeting the membranous shelters of pathogens via autophagy proteins*

10:30 - 11:00 **Break**

11:00 - 11:20 **Pamela Rosato** (UofM, Masopust)  
*Harnessing tissue resident memory T cells to combat solid tumors*

11:20 - 11:30 **Chris Goetz – Biotechne**  
*Antibodies of the Future*

11:30 – 11:40 **Helen Fleisig – Affymetrix**  
*Title TBD*

11:40 – 11:50 **Alicia Hammon - Proteintech**  
*Title TBD*

11:50 – 12:00 **Abbvie**  
*Title TBD*

12:00 – 1:00 **Lunch** – Nolen Gallery

1:00 – 4:00 **Free Time**

### **Session 3 – Grand Ballroom B/C**

*Chairs – Elise Breed (U of M) and Andrew Tremain (UChicago)*

- 4:10 - 4:30     **Jennifer Jacobsen** (UChicago, Kee)  
*EZH2 is required for B2 lineage commitment*
- 4:30 - 4:50     **David Owen** (UofM, Farrar)  
*Development of functionally distinct Treg subsets in the thymus*
- 4:50 - 5:10     **Carole Henry** (UChicago, Wilson)  
*Limited efficacy of inactivated influenza vaccine in elderly individuals is associated with decreased antibody adaptability*
- 5:10 - 5:30     **Nathan Schuldt** (UofM, Binstadt)  
*Dual TCR $\alpha$  expression poses an autoimmune hazard by limiting Treg cell generation*
- 6:00 – 7:30     **Dinner – Nolen Gallery**
- 7:30 – 9:30     **Poster Session 2 (Last Initials L-Z) – Grand Ballroom B/C**

## **THURSDAY, APRIL 13, 2017**

- 8:00 - 9:00     **Breakfast – Nolen Gallery**

### **Session 4 – Grand Ballroom B/C**

*Chairs – Haiguang Wang (U of M) and Tiffany Marchell (UChicago)*

- 9:10 - 9:30     **Reinhard Hinterleitner** (UChicago, Jabri)  
*Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease*
- 9:30 - 9:50     **Henrique Borges da Silva** (UofM, Jameson)  
*ATP receptor P2rx7 direct the generation of long-lived memory CD8+ T cells*
- 9:50 - 10:10     **Jeff Bunker** (UChicago, Bendelac)  
*Specificity of IgA Responses*
- 10:10 - 10:30     **Roland Ruscher** (UofM, Hogquist)  
*CD8 $\alpha\alpha$ + Intestinal Intraepithelial Lymphocytes (IEL) Arise from Two Major Thymic Precursor Subsets*
- 10:30 - 11:00     **Break**
- 11:00 - 11:20     **James Young** (UChicago, Chong)  
*Endogenous antigen-specific Tregs expand and differentiate into effector Tregs during allograft tolerogenesis*
- 11:20 – 11:40     **Tijana Martinov** (UofM, Fife)  
*The role of programmed death-1 in regulating islet-specific CD4 T cells*
- 11:40 – 12:00     **Michelle Miller** (UChicago, Alegre)

*Persistent antigen exposure in tolerant recipients promotes a cell-intrinsic hyporesponsive state in CD4<sup>+</sup> T cells*

12:00 – 1:30     **Lunch** – Nolen Gallery

1:30             **Departure**

## Poster Session 1 (Last Initials A-K)

Tuesday April 11, 2017

Grand Ballroom B/C

- 1) **Katie Anderson** – University of Minnesota  
*Melanoma displays evolutionarily conserved resistance to modulation of phagocytic signals*
- 2) **Pedro Belda-Ferre** – University of Chicago  
*Identification of an epithelial-adherent microbiota that is associated with cow's milk allergy*
- 3) **Emily Beltran** – University of Chicago  
*High fiber diets expand barrier-protective commensal bacteria that prevent food allergen sensitization*
- 4) **Katie Block** – University of Minnesota  
*Testing the susceptibility of mice with normal microbial experience to induction of allergic airway disease*
- 5) **Henrique Borges da Silva** – University of Minnesota  
*ATP receptor P2rX7 direct the generation of long-lived memory CD8+ T cells*
- 6) **Elise Breed** – University of Minnesota  
*CD301b+ SIRPα+ Dendritic Cells are Enriched in the Thymic Medulla*
- 7) **Ben Brian** – University of Minnesota  
*The role of the Src-family Kinase LynA in macrophage-targeted cancer therapy*
- 8) **Hailey Brown** – University of Chicago  
*Recruitment of Interferon-Inducible GTPases by LC3 homologs*
- 9) **Jeffrey Bunker** – University of Chicago  
*Specificity of IgA Responses*
- 10) **Kristina Burrack** – University of Minnesota  
*IL-15 cytokine complex therapy prevents the development of cerebral malaria in mice*
- 11) **Adam Burrack** - University of Minnesota  
*Detecting rare transplant-antigen-specific CD4 T cells*
- 12) **Yaoqing Chen** – University of Chicago  
*Influenza virus infection in humans induces broadly cross-reactive and protective neuraminidase-specific antibodies*
- 13) **Xiufen Chen** – University of Chicago  
*Investigating the specificity and response of a leukemia-reactive CD8+ T cell clone*
- 14) **Jayoung Choi** – University of Chicago  
*Targeting the membranous shelters of pathogens via autophagy proteins*

- 15) **Kyle Cron** – University of Chicago  
*A germline polymorphism associated with the T cell-inflamed tumor microenvironment in metastatic melanoma*
- 16) **Emily Curran** – University of Chicago  
*Role of Ddx41 in the STING pathway*
- 17) **Taylor DePauw** – University of Minnesota  
*Early Detection Test to Detect Hemangiosarcoma Cells in Canines*
- 18) **Charles Dulberger** – University of Chicago  
*The MHC-Ib molecule HLA-F presents peptides and regulates immunity through interactions with NK-cell receptors*
- 19) **Ryan Duncombe** – University of Chicago  
*Human  $\gamma\delta$  T cell recognition of self lipids presented by CD1d*
- 20) **Zachary Earley** – University of Chicago  
*Intestinal epithelial cell transcription factor Gata4 restricts the niche of immunomodulatory bacteria*
- 21) **Steven Erickson** – University of Chicago  
*Accelerated Generation of Immunoglobulin Knock-in Mice*
- 22) **Lucie Fallone** – University of Chicago  
*TLR-4 signaling by ileal adherent bacteria drives an inflammatory epithelial cell response in cow's milk allergy*
- 23) **Jessica Fiege** – University of Minnesota  
*How and why lung epithelial cells survive influenza A virus infection*
- 24) **Dana Gilmore** – University of Chicago  
*Identification of natural peptide epitopes recognized by regulatory T cells*
- 25) **Carole Henry** – University of Chicago  
*Limited efficacy of inactivated influenza vaccine in elderly individuals is associated with decreased antibody adaptability*
- 26) **Reinhard Hinterleitner** – University of Chicago  
*Reovirus infection triggers inflammatory responses to dietary antigens and development of celiac disease*
- 27) **Brendan Horton** – University of Chicago  
*Apoptosis of Tumor Infiltrating CD8+ T Cells Limits Tumor Immunity and is Reversed by agonist 4-1BB Combination Immunotherapy*
- 28) **Chanie Howard** – University of Chicago  
*Understanding the regulation of human IL-33 in BAC transgenic mice*
- 29) **Cara Hrusch** – University of Chicago

*ICOS+ innate lymphocytes protect against lung injury-induced mortality by production of IL-5*

- 30) **Emily Irey** – University of Minnesota  
*Determining effects of JAK/STAT inhibition on breast cancer tumor-associated macrophages*
- 31) **Jennifer Jacobsen** – University of Chicago  
*EZH2 is required for B2 lineage commitment*
- 32) **Vineet Joag** – University of Minnesota  
*4 Impact of bacterial vaginosis treatment with metronidazole on genital immunology and HIV susceptibility*
- 33) **Andrea M. Kemter** – University of Chicago  
*Clostridia-containing microbiota protect from food allergy in an IL-22 dependent manner.*
- 34) **Stella Hsu-Wei Khiew** – University of Chicago  
*CTLA4-Ig in combination with FTY720 reduces the frequency of memory alloreactive T cells and promotes heart allograft survival in sensitized recipients*
- 35) **Sangman Kim** – University of Chicago  
*Fecal microbiota transplantation provokes systemic host immune changes that drive the clearance of lethal disseminated pathogens*
- 36) **Jong Hyuk Kim** – University of Chicago  
*Tolerization of antigen-specific immune responses in diabetic dogs*
- 37) **Dmitri Kotov** – University of Minnesota  
*TCR affinity directs T cell differentiation by regulating T cell-DC interactions*
- 38) **Paulette Krishack** – University of Chicago  
*The pulmonary type 2 inflammatory response protects against Staphylococcus aureus-induced sepsis*
- 39) **Peter Krueger** – University of Minnesota  
*Foreign antigen-specific Foxp3+ regulatory T cells are thymically derived and can downregulate Foxp3 expression during immunization.*

## Poster Session 2 (Last Initials L-Z)

Wednesday, April 12, 2017

Grand Ballroom B/C

- 1) **Linda (Yu-Ling) Lan** – University of Chicago  
*CD21<sup>low</sup> B cells are primed for plasma cell differentiation*
- 2) **Victoria Lee** – University of Chicago  
*Defining tolerance mechanisms regulating self-specific T cells*
- 3) **Brandon Lee** – University of Chicago  
*Tissue Specific Modulation of Immunity against *S. aureus* Infection*
- 4) **Zhong-Yin Li** – University of Chicago  
*Id2 is required for proper expression of T-bet during natural killer cell maturation*
- 5) **Lihua Li** – University of Minnesota  
*Colon cancer derived extracellular vesicles precondition host immune response via miRNA mediated immunosuppression*
- 6) **Xiao Liu** – University of Chicago  
*Decoding CD8<sup>+</sup> T cells and Foxp3<sup>+</sup> Tregs in follicular lymphoma through linking TCRs to function at the single-cell level*
- 7) **Brendan MacNabb** – University of Chicago  
*“Cross-dressed” dendritic cells promote anti-tumor CD8<sup>+</sup> T cell priming*
- 8) **Kelly Makielski** – University of Minnesota  
*Induction of an adaptive immune response against osteosarcoma using oncolytic virotherapy*
- 9) **Tijana Martinov** – University of Minnesota  
*The role of programmed death-1 in regulating islet-specific CD4 T cells*
- 10) **Toufic Mayassi** – University of Chicago  
*The small intestine selects the T cell receptor repertoire and functional niche of V1 T cells in health and disease*
- 11) **Christine McIntosh** – University of Chicago  
*Role of the Microbiota on Inter-Individual Variability in Transplant Outcome*
- 12) **Marlies Meisel** – University of Chicago  
*Interleukin-15 promotes intestinal dysbiosis with butyrate deficiency associated with increased susceptibility to colitis*
- 13) **Michelle Miller** – University of Chicago  
*Persistent antigen exposure in tolerant recipients promotes a cell-intrinsic hyporesponsive state in CD4<sup>+</sup> T cells*
- 14) **Katie Murphy** – University of Minnesota



*Increased leptin during obesity abrogates antitumor immunity*

- 15) **Christine Nelson** – University of Minnesota  
*Utilizing self-specific CD8 T cells for the treatment of cancer*
- 16) **Karlynn Neu** – University of Chicago  
*Transcriptional profiling of peripheral blood plasmablasts*
- 17) **David Owen** – University of Minnesota  
*Development of functionally distinct Treg subsets in the thymus*
- 18) **Catherine Plunkett** – University of Chicago (will be presenting Tuesday)  
*Healthy infant microbiota can protect from allergic anaphylaxis in a humanized gnotobiotic model of cow's milk allergy*
- 19) **Marco Praventoni** – University of Minnesota  
*Cytokine-mediated programming of germinal center formation enhances vaccine efficacy*
- 20) **Jasmin Quandt** – University of Chicago  
*The emergence of ROR $\gamma$ t/Foxp3 double positive regulatory T cells involves  $\beta$ -catenin up-regulation*
- 21) **Kristin Renkema** – University of Minnesota  
*Unique Properties of Long-lived Effector CD8 T cells*
- 22) **Pamela Rosato** – University of Minnesota  
*Harnessing tissue resident memory T cells to combat solid tumors*
- 23) **Roland Ruscher** – University of Minnesota  
*CD8 $\alpha\alpha$ + Intestinal Intraepithelial Lymphocytes (IEL) Arise from Two Major Thymic Precursor Subsets*
- 24) **Oscar Salgado Barrero** – University of Minnesota  
*The role of Interferons in T cell development*
- 25) **Alex Salyer** – University of Minnesota  
*Protective responses against M. Tuberculosis with a toll-like receptor-2/7 adjuvanted subunit vaccine*
- 26) **Nathan Schuldt** – University of Minnesota  
*Dual TCR $\alpha$  expression poses an autoimmune hazard by limiting Treg cell generation*
- 27) **Youhui Si** – University of Chicago  
*Role of MyD88 in potentiating CD4+ T cell responses raised by peptide nanofiber vaccines*
- 28) **Milagros Silva Morales** – University of Minnesota  
*Peripheral Immune Self-Tolerance Mechanisms: Anergy and Treg cells*
- 29) **Ashley Suah** – University of Chicago

*Induction of Sensitization and Resistance to Transplant Tolerance by Allogeneic Pregnancy*

30) **Mengxi Sun** – University of Chicago

*Essential Role for the Transcription Factor ETS1 in Regulating the Development and Activation of Natural Killer Cells*

31) **Emily Thompson** – University of Minnesota

*Visualizing CD8 T cell surveillance in the small intestine*

32) **Emily Truckenbrod** – University of Minnesota

*Understanding CD8+ T cell tolerance to the self-antigen Trp2*  
*Understanding CD8+ T cell tolerance to the self-antigen Trp2*

33) **Haiguang Wang** – University of Minnesota

*CCR7 defines a multipotent progenitor for iNKT cells in thymus and periphery*

34) **Yan Xing** – University of Minnesota

*Control of B cell development by RNA N6-methyladenosine methylation*

35) **Jessica Yang** – University of Minnesota

*Antigen properties influence the Tfh dependence of polyclonal antigen-specific B cell responses*

36) **James Young** – University of Chicago

*Endogenous antigen-specific Tregs expand and differentiate into effector Tregs during allograft tolerogenesis*

37) **Zhong Zheng** – University of Chicago

*Control of B cell development by RNA N6-methyladenosine methylation*