2024 Retreat Poster Assignments

1. Mohamed Y. Zaky, Jessy John, Monika Vashisht, Arpitha H. Shivarudrappa, Priya Singh, Mohammad A. I. Al-Hatamleh, Karen Siddoway, Xhangguo Chen and Jing H. Wang

Targeting myeloid cell in head and neck squamous cell carcinoma: A kinase inhibitor library screening approach

2. Rufiaat Rashid, Ian P. MacFawn, Noor Nader, Sheryl Kunning and Tullia C. Bruno

Ovarian cancer-induced ascites fluid impacts B cell differentiation and function

3. Charlotte J. Imianowski, Andrew Baessler, Jian Cui, Aatur D. Singhi, Creg J. Workman and Dario A. A. Vignali

Uncovering mechanisms which control the infiltration of regulatory T (Treg) cells into the tumor

4. Melaina L. Jacoby, Theron C. Gilliland, Jr., Chengqun Sun, Shauna N. Vasilatos, Jessica L. Farren and William B. Klimstra

Viral tropism for lymphoid tissue cells is a sculptor of systemic cytokine responses to alphavirus infection

5. Felicia Kemp, Rebecca Brown, Gail Waltz and Craig Byersdorfer

Investigating the role of peroxisome proliferator-activated receptor delta (PPARδ) in alloreactive T cells

6. Yingtong Dou, Carly Cardello, Angela Gocher-Demske, Ellen Scott, Yangxi Sun, Creg J. Workman and Dario A. A. Vignali

Roles of IFNγ producers within the tumor microenvironment in response to immunotherapies

7. Yangxi Sun, Vaishali Aggarwali, Creg J. Workman and Dario A. A. Vignali

Exhausted CD8+ T cell subset dynamics and regulation by PD1

8. Sydney Jackson, Ambika Parmar, Chaim T Sneiderman, Amelia L. Stepniak, Dhivyaa Rajasundara, Stephen Frederico, Dr. Barry Edward, Dr. Jessie Nedrow and Dr. Gary Kohanbash

Differences between alpha and beta-emitting radiopharmaceutical therapy on the tumor microenvironment using bulk RNA sequencing analysis in preclinical brain tumors

9. Satarupa Ganguly, Morgan Jackson-Strong, Brandon Michalides, Karsen E. Shoger and Rachel A. Gottschalk

Transcription factors linking alveolar macrophage lipid regulation and inflammatory function

10. Catherine M. Phelps, Colin R. Laughlin, Yue Zhang, Surya P. Pandey, Nathaniel B. Willis, Aaron B. I. Rosen, Amanda H. Lee, Jake H. Shapira, Alex C. McPherson, Simran K. Randhawa, Lee Hedden, Ina

Nemet, Patrick A. Zohrer, Rachel A. Gottschalk, Kathryn H. Schmitz, Steven J. Mullett, Stacy Wendell, Karl-Heinz Wagner, Maria G. Winter, Sebastian E. Winter, Reinhard Hinterleitner, Thomas Mossington, Jonathan Badger, Richard Rodrigues, John McCulloch, Jishnu Das, Joseph F. Pierre, Giorgio Trinchieri and Marlies Meisel

Exercise-induced microbial folate metabolite enhances antitumor CD8 T cell immunity and promotes immunotherapy response in ICI-resistant preclinical melanoma

11. Shuxian Wu, Laura Conter, Wei Luo and Mark Shlomchik

STAT3 Ser727 phosphorylation is required for STAT3's maximal transcription and function in germinal center B cells

12. Benjamini Cameron, Paul M. Zdinak, Chasity Hankinson, Nilakshi Paul, Alexander Deiters, Eddie A. James, Jane Buckner and Alok V. Joglekar

Leveraging genetic code expansion to identify T cell reactivity to post-translationally modified epitopes

13. Sonia Kruszelnicki, Kay Bajpai, Devon Colby, Karsen Shoger and Rachel Gottschalk

Microbiota-dependent lung stimuli shape alveolar macrophage transcription factor networks

14. Maria D. Alcorn-Burckhardt, Theron C. Gilliland Jr., Chengqun Sun and William B. Klimstra

Disruption of eastern equine encephalitis virus E2 glycoprotein receptor binding sites for design of live attenuated vaccines

15. Shachi P. Vyas, Kenta Yamamoto, Yang Li, Daniella Schwartz, Larry Kane, Joel McManus, Ram Savan and Sarah Gaffen

A novel RNA translation checkpoint in CD4+ T cells

16. Melissa E. Cook, Bianca M. Coleman, Nicole O. Ponde, Tiffany C. Taylor, Brian M. Peters and Sarah L. Gaffen

Synergistic cytokine control of antifungal immunity in the female reproductive tract

17. Kelsey Ertwine, Jessica Jana, Katelyn Wolfgang, Dipyaman Patra, Kristin Morder and Abigail Overacre-Delgoffe

A small by mightly ROR(γt): a population of RORγt+ peripherally induced regulatory T cells promote growth of non-colonic tumors

18. Xuerui Wang, Zhihao Sun and Jing Li

Suppression of anti-tumor immune responses by regulatory CD8+ T cells

19. Kay G. Bajpai, Karsen E. Shoger and Rachel A. Gottschalk

Alveolar macrophage homeostatic function is impaired in the absence of commensal microbiota

20. Yang Li, Dana Ascherman, Peter Draber and Sarah L. Gaffen

Evidence for the RNA binding protein Arid5a as a biomarker and driver of rheumatoid arthritis

21. Rylee N. Cisney, Hongmin Yun and Anthony J. St. Leger

Neutrophils mediate immune response and clinical pathology in herpes simplex virus type 1 ocular infection

22. William Gunn, Kristin DePeaux, and Greg M. Delgoffe

Using an oncolytic virus to induce regulatory T cell fragility in the tumor microenvironment and overcome treatment resistance

23. Jessica Jana, Katelyn J. Wolfgang, Kristin T. Moder and Abigail E. Overacre

Going the distance: Helicobacter hepaticus *colonization drives immunotherapy response in melanoma*

24. Andrew McGovern, Victor So and Jason Lohmueller

Degradable domain allows for tunable drug control of CAR surface expression in T cells

25. Christine M Tin, Darryl A. Abbott, Kacey J Sullinger, Sarah Weinshel, Michael A. Silverman and Timothy W. Hand

Single cell analysis of infant microbiome development

26. Xingjian Qiu, B Rhodes Ford, Aaron Yang, Kellie Spahr, Greg M. Delgoffe and Amanda C. Poholek

Suppression of Ezh20 mediated histone methylation rescues the function of exhausted T cells

27. Eric Weiss, Haiyue Li, Toshiro Hirai and Daniel Kaplan

Cognate antigen encounter in the skin is required for full differentiation of epidermal tissue resident memory T cells

28. **Trey Harkness**, Devanshi Nayak, Abigail Sedlacek, Richard Cattley, William Hawse and Robert J. Binder

The HSP-CD91 axis provides co-stimulation for adaptive immune responses to tumors

29. Simran Randhawa, Catherine M. Phelps, Baron Gao, Jaishree Gandhi, Anthony St. Leger and Marlies Meisel

Defining the core components of the human ocular microbiome in homeostasis

30. Julie A. Wilson, Michael S. Diamond, William B. Klimstra and Douglas S. Reed

Characterization and efficacy of an aerosol tower system for respiratory delivery of anti-alphavirus therapeutics

31. Urekha Karri, Danica Lee, Liva Pfuhler and Daniella Schwartz

Making sense of the missense: systematic evaluation reveals novel disease causal variants in TNFAIP3

32. Yue Zhang, Colin Laughlin, Amanda Lee, Catherine Phelps, Surya Pandey, Simran Randhawa, Alex Mcpherson, Jake Shapira, Reinhard Hinterleitner, Giorgio Trinchieri and Marlies Meisel

Examining antitumorigenic effects of ruminococcus gnavus

33. Qiang Chen, Jian Cui, Creg J. Workman and Dario A.A. Vignail

Development of an in vivo model for CRISPR screening to uncover novel targets of tumor-infiltrating Treg cells

34. Nicholas Pease, Jingyu Fan, Peter Habib, Swapnil Keshari, Deepa Bisht, Jered Stratton, Zarifeh Heidari Rarani, Abhinav Jain, Godhev Manakkat Vijay, Louis Lau, Camila Macedo, Diana Metes, Hyejung Won, Nidhi Sahni, Jishnu Das and Harinder Singh

Modeling and perturbing dynamic GRNs regulating human B cell fate dynamics

35. Charu Arora, Renee R. Anderko, Noor Nader, Annie Walgren, Sheryl R. Kunning, Amer Zureikat and Tullia C. Bruno

Autophagy inhibition in pancreatic ductal adenocarcinoma cancer patients modulates tertiary lymphoid structure activity and B cell function

36. Emmanuel León Colón, Amrita Bhattacharjee, Alex Rowe, Sebastien Gingras, Mark Shlomchik, and Timothy W. Hand

Small intestinal effector/memory CD4+ T cells produce CGRP-a to promote enteric immunity

37. Nicole E. Mihalik, Charlotte J. Imianowski, Andrew Baessler, Erica L. Braverman, Katelyn DeNisco, Erin A. Brunazzi, Creg J. Workman and Dario A.A. Vignali

Assessing the relative and synergistic contributions of PD1 and LAG3 on CD4+ T conventional cells in cancer

38. Luzmariel Medina Sánchez, Yanlin Zeng, Magdalena Siller, Pamela Brigleb, Ariadna Soto, Clarisse Engl, Kishan Sangani, Bana Jabri, Timothy J. Nice, Marlies Meisel, Elena Verdú, Jishnu Das, Terence Dermody and Reinhard Hinterleitner

Novel commensal gut protist restrains virus-mediated loss of oral tolerance by modulating dietary antigen-presenting dendritic cells

39. Yannis E. Rigas, Jackie Shane, Benjamin R. Treat, Robert M.Q. Shanks and Anthony J. St. Leger

Investigating ocular commensal colonization in IL-17 and serum antibody induction

40. Chenxian Ye, Kelsey Ertwine, McLane J. Watson and Greg M. Delgoffe

Exploring the Differential Glucose Avidity on Treg Cell Biology

41. Dipyaman Patra, Chenxian Ye, Lora Rigatti, Anthony Cillo, Greg Delgoffe and Abby Overacre-Delgoffe

Deciphering Immunotherapy's Challenges: A Novel Mouse Model for Immune related Adverse Events

42. Glathar A, Seethala R, Vignali DA, Ferris RL, Bruno TC and Cillo A.

Integrating Single-Cell Technologies to Enhance Understanding of the Tumor Immune Microenvironment and Therapeutic Efficacy in HNSCC

43. Abbe Pannucci, Nicholas Pease, Harinder Singh, Tullia Bruno and Anthony Cillo

Unraveling intercellular communication networks using a tonsil organoid model

44. Hye Mi Kim, Medard Ernest Kaiza, Ian P. MacFawn, Noor Nader, Elaine Byrnes, Alexandra McDonough, Sheryl Kunning, Asia Williams, Ashwin Somasundaram, Kelsey Ertwine, Peter Fatouros, Stephen Thorne, Laura Stabile and Tullia C. Bruno

Temporal evaluation of tertiary lymphoid structures reveals changes in activity and composition over time

45. Yi Yang, Anthony Marinov, Alexander M. Rowe and Mark J. Shlomchik

Identification of autoreactive T helper cells in lupus and T cell engineering for understanding their roles in systemic autoimmunity

46. Ishita Baral, Yvonne Baumer, Aarohan Burma, Guido Falduto, McKella Sylvester, and Daniella M. Schwartz

Endothelial-Th9 interactions promote inflammatory cardiovascular disease

47. Kellie Spahr, Angelique Pham, Nicole Scharping, Xue Zeng and Greg M. Delgoffe

What are we saving this for? Mitochondrial citrate export drives excess carbon storage and dysfunction in exhausted T cells.

48. Ellen N. Scott, Cheng Ye, Hiroshi Yano, Zhanna Liptova, Erin A. Brunazzi, Kate M. Vignali, Creg J. Workman and Dario A.A. Vignali

Ebi3 binding to IFN-gamma and IL-10 limits their function

49. Ipsita Dey, Nicole O. Ponde and Sarah L. Gaffen

Contribution of the transcription factor IκBζ to immunity to systemic candidiasis

50. Sarah Bradley, Prosper Chukwuemeka, Charu Arora, Alex Glathar, Abbe Pannucci and Tony Cillo

Interrogating tumor-specific T cell phenotypes and function in metastatic melanoma

51. Lia Robben, Robert Zhang, Ashley Willey, Vincent Mele and Melissa Kane

Retroviral determinants for neutralizing antibody production

52. Chloe Kuminkoski, Itay Raphael, Brent Schlegel, Dhivyaa Rajasundaram and Gary Kohanbash

Transcriptomic-guided design of precision peptide vaccines for pediatric low-grade gliomas

53. Darryl Abbott, Kacey Sullinger, Aaron Yang, Amanda Poholek and Timothy Hand

Maternal immunoglobulin A regulates the development of the neonatal microbiota and intestinal microbiota-specific CD4+ T cell responses.

54. Robert Z. Zhang, Lia Robben, Ashley Willey, Vincent Mele, Sandra Umana and Melissa Kane

Genetic basis for interferon-gamma independent antiretroviral antibody responses

55. Nicole O. Ponde, Tiffany C. Taylor, Ipsita Dey, Rami Bechara, and Sarah L. Gaffen

Epitranscriptomic signaling in mucosal defenses against candida albicans

56. Mengtao Qin, Erica Braverman, Herbert Schuler, Lee-Kai Sun, Jason Lohmueller, and Craig Byersdorfer

Enhancing CAR-T cell metabolism by regulating AMPK signal

57. Supriya K. Joshi, William Gunn, Andrew Frisch, Hannah Bumgarner, Anthony Cillo, Wanzi Xiao, Konstantinos Lontos and Greg M. Delgoffe

Hypermetabolic expansion conditions imprint lasting dysfunction on adoptive cell therapies

58. Maria Abdul Ghafoor Raja, Kathleen M. Vignali**,** Creg J. Workman and Dario A.A. Vignali

Development of a novel CD4+ conventional T cells specific Cre: A new tool in immunologist tool box

59. Ellen A. Fleming and Anthony J. St. Leger

Herpes simplex virus type 1 ocular infection triggers brain inflammation at steady state and during neurodegenerative disease

60. Javad Rahimikollu, Priyamvada Guha Roy, Akash Kishore, Kiran Nazarali, Fan Zhang, Dana Ascherman, Larry Moreland and Jishnu Das

Multi-modal integration of protein interactomes with genomic and molecular data discovers distinct RA endotypes

61. Alisa Omelchenko, Rebecca Elsner, Syed A. Rahman, Prabal Chhibbar, Vinayak V. Viswanadham, Grace J. Yuen, Na Sun, Hamid Mattoo, Mark J. Shlomchik, Shiv S. Pillai, Vinay S. Mahajan and Jishnu Das

Network-based integration of epigenetic and transcriptomic landscapes unveils molecular programs underlying human T follicular helper cell differentiation

62. Prabal Chhibbar, Priyamvada Guha Roy, Munesh K. Harioudh, Daniel J. McGrail, Donghui Yang, Harinder Singh, Reinhard Heinterleitner, Yi-Nan Gong, S. Stephen Yi, Nidhi Sahni, Saumendra N. Sarkar, and Jishnu Das

Uncovering cell-type-specific immunomodulatory variants and associated molecular phenotypes in COVID-19 using structurally-resolved protein networks

63. Andrew W. Liu, Youran Zhang, Chien-Sin Chen, Sumeyye Ozyaman, Tara N. Edwards, Torben Ramcke, Eric S. Weiss, Jacob E. Gillis, Colin R. Laughlin, Catherine M. Phelps, Simran K. Randhawa, Marlies Meisel, Tina L. Sumpter and Daniel H. Kaplan

Scratching exaggerates allergic inflammation and augments host defense via neurogenic mast cell activation

64. Dan Xue, Mengqi Huang, Yuechen Zhou, Eleanor Valenzi and Robert Lafyatis

Unveiling TGFB3 upregulation in systemic sclerosis: insights from chromatin accessibility and transcription factor analysis

65. Jane C. Siwek, Alisa A. Omelchenko, Prabal Chhibbar, Sanya Arshad, Iliyan Nazarali, Kiran Nazarali, AnnaElaine Rosengart, Javad Rahimikollu, Jeremy Tilstra, Mark J. Shlomchik, David R. Koes, Alok V. Joglekar and Jishnu Das

Sliding window INteraction grammar (SWING): a generalized interaction language model for peptide and protein interactions

66. Danica Lee, Urekha Karri, Prabal Chhibbar, Priyamvada Guha Roy, Jishnu Das and Daniella Schwartz

Genotype-to-phenotype analysis of TNFAIP3 variants associated with haploinsufficiency of A20 (HA20) reveals higher prevalence than expected

67. Jacob E. Gillis, Chien-Sin Chen, Caitlin O. Bacon, Tara Edwards, Andrew W. Liu, Eric S. Weiss, Jonathan A. Cohen and Daniel H. Kaplan

The role of CGRP in neurogenic cutaneous inflammation

68. Hanxi Xiao, Niranjana Natarajan, Partha Dutta and Jishnu Das

Unraveling spatial microenvironmental dynamics of immune cells in myocardial infarction

69. Anthony J. Bragoli, Zhangguo Chen, Karen Siddoway and Jing H. Wang

The role of Ly6C and Ly6A in the activation of CD8+ T cells induced by chemotherapy-treated cancer cells independent of MHC class I

70. Amanda Lee, Surya P. Pandey, Colin R. Laughlin, Alex McPherson and Marlies Meisel

Defining the role of AhR and Nrf2 in commensal immunomodulation of antitumor immunity

71. Jackie Shane, Yannis Rigas, Robert Shanks and Anthony St. Leger

C. mastitidis requires the protein Sortase F, which decorates the cell wall with novel adhesin proteins, to colonize the eye

72. Andrew Baessler, Charlotte J. Imianowski, Jian Cui, Aatur D. Singhi, Creg J. Workman and Dario A. A. Vignali

CD8+ T cell infiltration into the tumor microenvironment

73. Sanya Arshad, Yi Yang, Haylee Cosgrove, David Gao, Lyubov Kublo, Alex Rowe, Wenzhong Wei, Mark J. Shlomchik, Jeremy Tilstra and Alok V. Joglekar

Immunopeptidomics to reveal T Cell autoantigens in a mouse model of lupus nephritis

74. Bailey T. Chalmers, Paul M. Zdinak and Alok V. Joglekar

Human Treg engineering: Development of an antigen-specific cell therapy for type 1 diabetes

75. Zarifeh Heidari Rarani, Swapnil Keshari, Nicholas Pease, Jingyu Fan, Akanksha Sachan, Harinder Singh, and Jishnu Das

Uncovering Novel cellular programs underlying human B cell states

76. Hannah J. Bumgarner, Supriya Joshi, Catarina Azevedo and Greg M. Delgoffe

Hyperglycemic culture conditions during therapeutic T cell expansion impair tumor immunity and repress T cell signaling linked to altered intracellular glycosylation states

77. Drew Wilfahrt, Bingxian Xie, Aaron Yang, Amanda Poholek and Greg M. Delgoffe

Tumor-derived nutrient stress induces lasting effects on CD8+ T cell function and epigenetic remodeling

78. Hussein El Bourji, Brian
na Robinson, Megan Stasik, Kristina Heins, Jordi Ochando, Abraham Teunissen and Geoffrey Camirand

Nanobiologics targeting innate immune allorecognition effectively reverses ongoing allograft rejection

79. Alysha F. Slater, Hongmin Yun Kaveh Maghbeli, Jishnu Das and Anthony J. St. Leger

The influence of amyloid precursor protein on immune cells in nervous tissue during steady state and disease

80. Julia M. Ferrick, Frank Chang, Donghui Yang, Zhanpeng Cen, Sarah He, Joshua S. Prokopec, and Yi-Nan Gong

A proteomic approach to identify the physical pore-formation regulator(s) in sub-lethal plasma membrane damaged cells

81. Paul M. Zdinak, Bailey Chalmers and Alok V. Joglekar

Direct and antigen-specific targeting of autoreactive CD4+ T cells in type 1 diabetes by engineered Tregs

82. Trirupa Chakraborty, Marisa Abundis, Divya Bhakta, Anushka Saha, Kieran Manion, Suhana N. Giyaz, Camila Macedo, Alok Joglekar, Diana Metes, Ana Konvalinka, Aniruddh Sarkar and Jishnu Das

Deciphering humoral profiles of rejection in kidney transplant patients with donor-specific allo-antibodies

83. Mary Melissa Roland, Amy Zhou, Luba Kublo, Venkata Krishna Kanth Makani, Paul Zdinak and Alok Joglekar

Identifying antigenic drivers of tertiary lymphoid structure formation in solid cancers

84. Angelique Pham, Kellie Spahr, Nicole Scharping and Greg M. Delgoffe

Mitochondrial citrate export drives hyper-acetylation in exhausted T cells

85. Abigail Sedlacek and Robert Binder

Pathogenicity of human CD91 SNPs

86. Yibo Zheng and Amanda Poholek

Identifying the expression and function of blimp-1 in ILC2s in allergic asthma

87. Priyamvada Guha Roy, Le Li, Zizhao Zhang, Luis M. Schang, Haiyuan Yu and Jishnu Das

Characterizing host-viral interaction interfaces for insights into pathogen transmission and autoimmunity

88. Venkata Krishna Kanth Makani, Lyubov Kublo, Parthiv Reddy Bandi and Alok V. Joglekar

Enhancement of antitumor CD4+ T cell responses by engineered antigen-presenting cells

89. Katelyn Wolfgang, Jessica Jana, Kristin T. Morder and Abigail E. Overacre

Investigating the mechanisms of Helicobacter hepaticus mediated lymphangiogenesis and tertiary lymphoid structure formation

90. Gagan Dev, Taohua Liu, Tiffany Taylor, Emmanuel Leon Colon, Amrita Bhattacharjee and Timothy Hand

Defining the mechanism of IFNg-mediated regulation of intestinal epithelium during environmental enteric dysfunction (EED).

91. Yan Ma and Jason Lohmueller

Engineering sustained and tumor-specific gene expression by CAR T cells via a synthetic feedforward gene circuit

92. Prosper O. Chukwuemeka, Anthony R. Cillo, Lilit Karapetyan, Cindy Sander, Elizabeth Rush, Anjali Rohatgi, John M. Kirkwood, Tulia C. Bruno, Creg Workman, Robert L. Ferris and Dario A.A. Vignali

The Impact of anti-LAG3 and anti-PD1 on Tumor-Infiltrating CD4+ regulatory T Cells in HNSCC and metastatic melanoma

93. Tiffany Taylor and Timothy Hand

Identifying the source of infectious variability using microbial single-cell RNA sequencing

94. **Onyedikachi V. Onyekachi,** Housaiyin Li, Aditi Kulkarni, Pragati Upadhyay, Lazar Vujanovic, and Dr. Robert L. Ferris.

Increased TIM-3 expression in tumor-infiltrating NK cells predicts poor response to ICI therapy in head and neck squamous carcinoma.

95. Daria Jelic and Douglas Reed

Evidence for impedance of H5N1 neuronal replication by co-culture with microglia

96. Brandon A. Michalides, Karsen E. Shoger, Sonia Kruszelnicki, Neha Cheemalavagu, Anamarie Martinez-Turak, Morgan Jackson-Strong, Colin R. Laughlin, **Omkar S. Betsur,** Devon Colby, Marlies Meisel, Sebastien Gingras and Rachel A. Gottschalk

Fth1-mScarlet reports monocyte-to-macrophage differentiation during inflammation.

97. Halah Winner, Ariadna Soto, Surya Pandey, Edith Campana, Luzmariel Medina-Sanchez and Reinhard Hinterleitner

Colonization with tritrichomonas arnold exacerbates oxazolone induced colitis pathology

98. Luis Mena Hernandez, Nicholas Pease and Harinder Singh

Exploring the role of aryl hydrocarbon receptor (AhR) in the activation dynamics of human B cells

99. Yijia Chen, William A. MacDonald, Kun He, Hanxi Xiao, Jishnu Das and Amanda C. Poholek

Spatial dynamics of CD4+ T cell differentiation in lung-draining lymph nodes revealed by slide-TCR-seq

100. Aaron Yang and Amanda C. Poholek

Understanding the role of 3D chromatin topology in regulation of T cell exhaustion in tumors

101. Adraina Arthur, Elsner, R.A. and Shlomchik, M.J.

Increase in plasamblast differentiation from an in-vitro stimulation of both IL-12 and IFNg showed an increase in Id2

102. Kenta Yamamoto, Shachi P. Vyas, Lisa R. Mathews, Heth R. Turnquist and Sarah L. Gaffen

RNA-binding protein arid5a in CD4+ T cell regulation and graft-versus-host disease (GvHD)

103. Kieran Adam, Yoshi Fujita, E. John Wherry, Creg Workman and Dario A.A. Vignali

Base- editing mutagenesis to reveal extracellular domains in LAG3 that modulate T cell function

104. Stephen M. Joachim, Rebecca A. Elsner, Roberto Di Niro, Timothy W. Hand and Mark J. Shlomchik

Commensals vs. pathogens: balancing B cell tolerance and protection

105. Deyi Yang, **Xu Si,** Emmanuel Leon Colon, Amanda C Poholek, Amrita Bhattacharjee and Timothy W. Hand

Krüppel-like factor 4 is critical for small intestinal CD4 T cell memory responses to oral vaccination

106. Edith Campana, Luzmariel Medina-Sanchez, Ariadna Soto, Surya Pandey, Halah Winner and Reinhard Hinterleitner

The role of tritrichomonas arnold in restraining viral mediated loss of oral tolerance

107. Ariadna Soto, Clarisse, Engl, Surya Panday, Halah Winner, Luzmariel Medina-Sanchez, Isha Mehta, Augusta Vincent, Marlies Meisel, Jishnu Das and Reinhard Hinterleitner

Immunomodulatory functions of the gut protist pentatrichomonas hominis in health and disease

108. Kristin Morder, Drew Wilfahrt, Madison Nguyen, Zakaria Dahmani, Ansen Burr, Bingxian Xie, Hector Nieves-Rosado, Stacy Mullet, Steven Wendell, Lawrence Kane, Greg Delgoffe, Jishnu Das, Diwakar Davar and Abigail Overacre-Delgoffe

Sucralose supports shifts in microbial diversity and ablates immunotherapy response

109. Aaron BI Rosen, Anwesha Sanyal, Theresa Hutchins, Giffin Werner, Jacob S. Berkowitz, Tracy Tabib, Robert Lafyatis, Heidi Jacobe, Kathryn Torok and Jishnu Das

Shared transcriptomic signatures underlying localized scleroderma and systemic sclerosis

110. Samuel C. Butler, Creg J. Workman and Dario A.A. Vignali

Determining the role of TOX in the maintenance of CD8+ T cell exhaustion and memory development

111. C. Alexis McCollum, Jennifer Bowling and Douglas S. Reed

Determining the role of immature myeloid cell subpopulations on francisella tularensis pathogenesis

112. Alysa Evans, Koushul Ramjattun and Yifan Zhang

Trafficking and impacts of CD4+ T cells within the solid tumor microenvironment

113. Jordan Warunek, Steve Sanders, Sihua Wang, Lisa Mathews, Richard Cattley, Martin Oberbarnscheidt, William Hawse, Khodor Abou-Daya, Fadi Lakkis and Heth Turnquist

Macrophage recognition of donor MHCI triggers novel pathways that stimulates repair following transplantation

114. Yuhan Wu, Gianna Falcone, Alexander Deiters and Jason Lohmueller

Programming T-cell targeting through antibody- lipid conjugates

115. Avani Parikh, Gianna Falcone, Steven Caldwell, Isabella Demyan, Elisa Ruffo, Alexander Deiters and Jason Lohmueller

Programming universal chimeric antigen receptor (CAR) T cells using small molecule adaptors

116. Victor So, Andrew McGovern, and Jason Lohmueller

Engineering synthetic intercellular feedback to augment adoptive T-cell therapy

117. Louis C. Lau, Nicholas Pease, Jingyu Fan, Peter Gerges and Harinder Singh

High-resolution genomic analyses of human plasma cells reveal cooperative and divergent regulatory functions of IRF4 & PRDM1

118. Harshita Beeravolu, Jiaqi Lu, Abigail Berrios, Angela Hettinga, Samantha Grimes, Shivani Pandya, Abigail Overacre-Delgoffe, Kun He, Sebastian Gringas, Timothy Hand and Amanda Poholek

Blimp-1 expression is controlled in a context-dependent and cell-type specific manner by Prdm1-associated non-coding regulatory elements

119. Malak Ayoub, Allison N. Casey and Tullia C. Bruno

Testing memory B cell differentiation in cancer

120. Godhev Kumar Manakkat Vijay, Luis Mena Hernandez, Louis Chi-Wai Lau and Harinder Singh

CREB3L2 controls the fate of long-lived plasma cells

121. Michael Kvorjak, and Jason Lohmueller

SNAP tag guided lentiviral transduction

122. Russell C Levack, Claire Leibler, Shinu John, Rebecca A. Elsner, Kayla B. Thomas, Shuchi Smita, Stephen Joachim, Derrick J. Callahan, Rachael A. Gordon, Sheldon Bastacky, Ryutaro Fukui, Kensuke Miyake, Sebastien Gingras, Kevin M. Nickerson and Mark J. Shlomchik

Dissection of the Protective Mechanisms of TLR9 in SLE

123. Morgan Jackson-Strong, Satarupa Ganguly, Brandon A. Michalides, Sonia M. Kruszelnicki, Karsen E. Shoger, Lihong Teng, Alison B. Kohan and Rachel A. Gottschalk

GATA2 regulation of alveolar macrophage function in homeostasis and inflammation

124. Kumar, A, Rivadeneira, D.B., Poholok, A.C., Kohan A, and Delgoffe, G.M.

Postprandial changes to systemic metabolism imprint durable changes on T cell immune responses