

2025 Joint IMM/MMG Symposium Poster Assignments

1. Kelsey Ertwine, Jessica Jana, Katelyn Wolfgang, Dipyaman Patra, Kristin Morder and Abigail Overare

A small but mighty ROR(γ): ROR γ supports peripherally induced regulatory T cell function and tumor growth

2. Hannah J. Bumgarner, Supriya Joshi, Catarina Azevedo, Jingyuan Zhang, Richard Cattley, William Hawse and Greg M. Delgoffe

Hyperglycemic culture conditions alter therapeutic T cell glycosylation and decrease antitumor immunity

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

Investigating the mechanism of Helicobacter hepaticus mediated tertiary lymphoid structure formation

4. Mary Melissa Roland, Amy Zhou, Lyubov Kublo, Venkata Krishna Kanth Makani, Jennifer Bone, Paul Zdinak and Alok V. Joglekar

Identifying the antigenic drivers of tertiary lymphoid structure formation in solid cancers

5. Shachi P. Vyas, Kenta Yamamoto, Yang Li, Joel McManus, Ram Savan and Sarah Gaffen

A novel RNA translation checkpoint in CD4⁺ T cells

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

Type 3 cytokines collectively control antifungal immunity in the female reproductive tract

7. Nathalie Chen, Margaret Cassady, Shekina Gonzalez-Ferrer, Emma G. Mills, Kady D. Waggle, Marissa P. Griffith, Lora L. Pless, Lee H. Harrison, Janet S. Lee, William G. Bain and Daria Van Tyne

Exploring the role of capsule in innate immune interactions of multidrug-resistant Klebsiella pneumoniae

8. Xiaolu Xie and Shou-Jiang Gao

Oncogenic KSHV utilizes RNA methyltransferase METTL16 to enhance cell proliferation and transformation

9. C.M. Phelps, N. Willis, T. Duan, Y. Zhang, A. Lee, D. Rodriguez Jiminez, S. Pandey, C. Laughlin, A. Rosen, A.C. McPherson, S. Randhawa, J. Shapira, L. Hedden, R. Hinterleitner, K.H. Wagner, S. Winter, J. Das, J. Pierre, G. Trinchieri and M. Meisel

Exercise-induced microbial vitamin B0 metabolite drives CD8 T cell antitumor immunity and enhances ICI efficacy in preclinical melanoma

10. Frank Chao-Yuan Chang and Yi-Nan Gong

Blocking phosphatidylserine on cell plasma membrane to boost tumor immunity

11. Mengao Qin, Erica Braverman, Herbert Schuler, Jason Lohmueller and Craig Byersdorfer

AMPK enhances CAR-T function through increased oxidative capacity and improved cellular ROS control

12. Avani Parikh, Gianna Falcone, Stevel Caldwell, Isabella Demyan, Elisa Ruffo, Alexander Deiters and Lason Lohmueller

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

13. 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

14. Ipsita Dey, Nicole O. Ponde, Melissa E. Cook and Sarah L. Gaffen

Role of IL-17-induced transcription factor I κ B ζ in systemic candidiasis

15. Nicole O. Ponde, Ipsita Dey, Tiffany C. Taylor, Melissa E. Cook, Bianca M. Coleman, Rami Bechara and Sarah L. Gaffen

*Epitranscriptomic signaling in mucosal defenses against *Candida albicans**

16. Leigh M. Miller, Ellyse M. Cipolla, Alexis M. Duray, Flavia Rago, Brooke P. Dresden, Kristen Parenteau, Abhigya Gupta and John F. Alcorn

B cell deficiency induces cytotoxic effector memory CD8 T cells during influenza-associated bacterial pneumonia

17. Joshua Walston, Japan Patel, Shweta Kitchloo, Alan Bäckholm, Eric Wang and Kathy Shair

Interrogating patient susceptibility and resistance to Epstein-Barr virus infection in the nasopharynx using organotypic cultures

18. Adam Officer, Wen Meng, David Spellman, Paige Bracci, Mike McGrath, Yufei Huang and Shou-jiang Gao

Microbiome signatures of progressive Kaposi's Sarcoma

19. Andrew Simonson, Michael Chao, Forrest Hopkins, Michael Chase, Andrew Vickers, Luke Hood, Rachel Donian, Marshall Malin, H. Jacob Borish, Paulina Maiello, Ling Lin, Sarah Fortune and JoAnne Flynn

*Protection against reinfection with *Mycobacterium tuberculosis* extends across lineages*

20. Gagan Dev, Taohua Liu, Amrita Bhattacharjee and Timothy W. Hand

Defining the mechanisms of IFN γ -mediated regulation of intestinal epithelium during environmental enteric dysfunction (EED)

21. Solomon Jauro, Erica C. Larson, Brendon Wahlberg, Mark A. Rodgers, Janelle L. Gleim, Luke E. Hood, Mallory K. Collins, Jaime A. Tomko, H. Jacob Borish, Pauline Maiello, C. Todd Demarco, E. Lake Potter, Patricia A. Darrah, Robert A. Seder, Mario Roederer, Philana Ling Lin, JoAnne L. Flynn and Charles A. Scanga

Intravenous Bacillus Calmette-Guérin protection against Mycobacterium tuberculosis in Simian Immunodeficiency Virus-infected macaques requires viral control

22. Daria Jelic and Douglas Reed

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

23. Andrea Jurado, Yuanjie Liu, Hu Zhang, Ning Sun, Cheng-Der Liu, Tinghe Zhang, Xiao Peng, Yufei Huang and Haito Guo

Extrachromosomal circular DNAs enriched in Hepatitis B virus infected cells are linked to dysregulation of the viral life cycle

24. Brooke P. Dresden, Alexis M. Duray, Bindu Chunduri, Leigh M. Miller and John F. Alcorn

Staphylococcus aureus protein SasD affects phagocytes during pulmonary infection

25. Melaina L. Jacoby, Theron C. Gilliland, Jr., Chengqun Sun, Alyssa L. Lee, Dhivyaa Rajasundaram and William Klimstra

Systemic cytokine responses to alphavirus infection are dictated by viral replication dynamics in lymphoid tissues

26. Ella Begovic, Alexandra Hughson, Daniel Okpaise, Christopher Kline, Chandra Roy and Zandrea Ambrose

Natural HIV-1 capsid protein polymorphisms at residue 107 do not confer or enhance lenacapavir resistance

27. Mia Van Allen, Renee Bina and James Bina

Phenyl-arginine- β -naphthylamide modifies antimicrobial susceptibility and attenuates virulence phenotypes in Klebsiella pneumoniae via targeting RND efflux systems

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

The role of Ly6C and Ly6A in virtual memory T cell activation against chemotherapy-treated, MHC class I null tumor cells

29. Jessica A. Jana, Katelyn J. Wolfgang, Kelsey M. Ertwine, Kristin T. Morder and Abby E. Overacre

Going the distance: Helicobacter hepaticus drives immunotherapy response in melanoma

30. Allison Casey, Robert Ferris and Tullia Bruno

Tumor microenvironmental cues promote the generation of phenotypically distinct memory B cells

31. Vaishali Aggarwal, Yangxi Sun, Chang Liu, Cui Jian, Haiguang Wang, Sasikanth Manne, Kate M. Vignali, E. John Wherry, Creg J. Workman and Dario A. A. Vignali

Tumor-specific stem-like progenitor exhausted CD8+ T cell subsets diverge into terminally exhausted cells and long-lived memory T cells

32. Benjamin E. Warner, Japan Patel, Renwei Wang, Jennifer Adams-Haduch, Yu-Tang Gao, Woon-Puay Koh, Ka Wo Wong, Alan K. S. Chiang, Jian-Min Yuan and Kathy H. Y. Shair

The Epstein-Barr virus nuclear antigen 1 (EBNA1) variant associated with nasopharyngeal carcinoma defines the sequence criteria for serologic risk prediction

33. 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)

34. Qiang Chen, Jian Cui, Creg J. Workman and Dario A. A. Vignali

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

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

CD8+ T cell infiltration into the tumor microenvironment

36. Yingtong (Ava) Dou, Vaishali Aggarwal, Creg J. Workman and Dario A. A. Vignali

Interferon- γ derived from exhausted T cells contributes to maintaining exhausted T cell population and host memory response in melanoma

37. Julie Wilson, Theron Gilliland, Jr., Michael Diamond, William Klimstra and Douglas Reed

Respiratory delivery of aerosolized LDLRAD3 for protection against Venezuelan Equine Encephalitis Virus in mice

38. C. Alexia McCollum, Jennifer Bowling and Douglas S. Reed

Impact of myeloid-derived suppressor cells on Francisella Tularensis pathogenesis

39. Jiaxiang Li, Kyle J. Gordon and JoAnne L. Flynn

Mycobacterium tuberculosis-specific cytotoxic T cells: functions in controlling the bacteria in granulomas and lymph nodes

40. Rylee N. Cisney, Hongmin Yun, Brian M. Davis and Anthony J. St. Leger

Corneal TRPV1 sensory afferent activation alters the immune cell population in the cornea and trigeminal ganglia

41. Elizabeth Chimbayo, Jimmy Banda, Steven Mitini-Nkhoma, David Mhango, Aaron Chirambo, Rose Malamba, Anstead Kankwatira, Paul Garside, James Brewer and Mwandumba

HIV-1 infection is associated with a differential T cell receptor (TCR) V β expression in Mycobacterium Tuberculosis (Mtb)-specific T cells in the airway and blood

42. Suet Kee Lou, Xian Wang, Jia-Jun Liu, Shuchang Silvia Liu, Jian-Hua Luo and Shou-Jiang Gao

SWI/SNF chromatin remodeling complex is essential for Kaposi's sarcoma-associated herpesvirus-induced cellular transformation

43. 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

44. Nicole E. Mihalik, Erica L. Braverman, Andrew Baessler, Charlotte J. Imianowski, 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 cells in cancer

45. Chandra Nath Roy, Christopher Kline, Meriem Boukaabar and Zandrea Ambrose

Characterizing the MISTRG6 humanized mouse model for HIV-1 mucosal transmission and therapeutic studies

46. Onyekachi V. Onyekachi, Housaiyin Li, Pragati Upadhyay, Aditi Kulkarni, Lazar Vujanovic, Lary P. Kane and Robert L. Ferris

The role of NK cells and TIM-3 to checkpoint therapy responsive tumor microenvironment

47. Kieran Adam, Yoshi Fujita, Jian Cui, Wumesh Kc, Shin Foong Ngiow, Sharanbasappa Karade, Roy A. Mariuzza, E. John Wherry, Creg J. Workman and Dario A. A. Vignali

Functional characterization of LAG3 ligands that modulate immune response in the tumor

48. Lori A. Emert-Sedlak, Colin M. Tice, Haibin Shi, John J. Alvarado, Sherry T. Shu, Allen B. Reitz and Thomas E. Smithgall

Development of targeted degraders (PROTACs) for the HIV-1 Nef virulence factor

49. Catherine E. Thomas, John J. Alvarado and Thomas E. Smithgall

Small molecule HIV-1 Nef inhibitors disrupt Nef homodimer formation in vitro

50. Giancarlo Gonzalez-Areizaga, Shoucheng Du, John J. Alvarado and Thomas E. Smithgall

Allosteric restriction enhances sensitivity of the AML-associated Src-family kinase Fgr to ATP-site inhibitors

51. Sherry T. Shu, Li Chen, Giancarlo Gonzalez-Areizaga and Thomas E. Smithgall

Constitutive activation of the Src-family kinases Fgr and Hck enhances the tumor burden of acute myeloid leukemia cells in immunocompromised mice

52. Jessica M. Medrano, Jishnu Das, Zandrea Zmbrose and P. Ling Lin

SIV disrupts the spatial organization of granuloma function during SIV-Mtb co-infection

53. John J. Alvarado, David A. Close, Paul A. Johnston and Thomas E. Smithgall

Fluorescence complementation screening assay for allosteric modulators of the acute myeloid leukemia-associated Src-family kinase, Fgr

54. Lianna Huang, Luping Chen and Shou-Jiang Gao

Heterogeneity of oncogenic and survival signaling pathways in primary effusion lymphoma: implications for precision targeting and combination therapy

55. Ding Ling, Shenyu Sun, Tinghe Zhang, Xian Wang, Yufei Huang and Shou-Jiang Gao

Arginine sensor CASTOR1 mediates colon epithelial homeostasis and repair in colitis by regulating interleukin IL-6/STAT3-mediated inflammation

56. 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

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

Changes in TLS activity and function impact development and immune landscape of tumor in lung cancer