

Aaruni Khanolkar

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Aaruni Khanolkar, MBBS, PhD, D(ABMLI)

CONTACT INFORMATION

Email: akhanolkar@msn.com

EDUCATION

Medical School: MBBS, September 1993, Jiwaji University, India (Medicine)

POSTGRADUATE TRAINING

PhD, Fall of 2000, University of Arkansas for Medical Sciences (UAMS), Little Rock, AR (Microbiology and Immunology)

ADDITIONAL TRAINING:

1. Junior Resident, 1994-1995, University College of Medical Sciences, Delhi University, GTB Hospital, India (Pediatrics).
2. Junior Research Fellow, 1995-1996, National Institute of Immunology, New Delhi, India (Immunology)
3. Post-doctoral research fellowship, October 2000-November 2001, Johns Hopkins University, Baltimore, MD (Tumor Immunology).
4. Post-doctoral research fellowship, Dec. 2001- Oct. 2004, University of Alabama at Birmingham, AL (Viral Immunology).
5. Assistant Research Scientist, October 2004-August 2009, University of Iowa, Iowa City, IA (Microbial Immunology) (Laboratory of Dr. John T. Harty, PhD).
6. American Society of Microbiology (ASM)-Committee on Postgraduate Educational Programs (CPEP)-certified fellowship, September 2009-June 2012, Department of Pathology and ARUP National Reference Laboratories, University of Utah, Salt Lake City, UT (**Medical Laboratory Immunology**).

CERTIFICATIONS

1. Diplomate, American Society of Microbiology-American Board of Medical Laboratory Immunology (ABMLI) (September 2011). Re-certified January 2015; January 2018; January 2021.

ACADEMIC APPOINTMENTS

1. **June 2012-August 31, 2022:** Assistant Professor [Clinical-Educator Track; Domains: Clinical Service (75%) and Research (25%)], Department of Pathology, Feinberg School of Medicine, Northwestern University, Chicago, IL.
2. **September 1, 2022-August 2023:** Associate Professor [Clinical-Educator Track; Domains: Clinical Service (75%) and Research (25%)], Department of Pathology, Feinberg School of Medicine, Northwestern University, Chicago, IL.

HOSPITAL / CLINIC APPOINTMENTS

1. **June 2012-August 2023:** Director, Diagnostic Immunology and Flow Cytometry Laboratory, Ann and Robert H. Lurie Children's Hospital of Chicago.

HONORS AND AWARDS

A. International/National/Regional:

(a) 2012-present:

1. 2021 Federation of Clinical Immunology Societies (FOCIS) Annual Meeting Research Award (abstract selected for oral presentation and complimentary meeting registration), June 8-11, 2021.
2. Top Abstract Award, World Allergy Organization Symposium on Immunotherapy and Biologics, December 13-14, 2013, Chicago, IL (Abstract No. 1018).

(b) Pre-2012:

1. Travel Award from the Keystone Symposia on Molecular and Cellular Biology for the meeting (A7) on Cellular Immunity and Immunotherapy of Cancer, Santa Fe, NM, January 21-27, 2000.

B. University:

(a) 2012-present:

1. Developmental Core Pilot Award from the Third Coast-Center for AIDS Research (CFAR), a National Institutes of Health (NIH, Bethesda, MD) funded center (P30-AI117943).
2. Outstanding Teacher Pin awarded by the Augusta Webster, MD, Office of Medical education, Northwestern University, for the Diagnostic Testing Lectures given to the Feinberg SOM-M1 students during the 2015-16 academic year.

(b) Pre-2012:

1. 2nd prize for Oral Presentation at the University of Utah, Department of Pathology Clinical Fellows Grand Rounds, Salt Lake City, UT, June 11, 2010.
2. Outstanding Visiting Scholar Award: 14th Annual University of Alabama at Birmingham (UAB) International Scholar and Student Awards, Birmingham, AL, April 9, 2004.
3. Department of Microbiology Award of Excellence for the Most Outstanding Oral Presentation by a post-doctoral fellow, 14th Annual UAB Department of Microbiology Research Retreat, Stone Mountain, GA, November 7-9, 2003.
4. Best Poster Presentation by a post-doctoral fellow, 13th Annual UAB Department of Microbiology Research Retreat, Gulf Shores, AL, November 15-17, 2002.
5. Travel Award from the Graduate School, University of Arkansas for Medical Sciences (UAMS), Little Rock, AR, to attend the annual meeting of the American Association of Immunologists and the Clinical Immunology Society, Seattle, WA, May 12-15, 2000.
6. Best Poster Presentation by a graduate student, Graduate Student Research Week, University of Arkansas for Medical Sciences, Little Rock, AR, April 4-6, 2000.
7. Travel award from the Graduate School, University of Arkansas for Medical Sciences (UAMS), Little Rock, AR, to attend the Keystone Symposium (A7) on Cellular Immunity and Immunotherapy of Cancer, Santa Fe, NM, January 21- 27, 2000.
8. Travel Award from the Graduate School, UAMS, Little Rock, AR, to attend the 1999 Annual Meeting of the American Society for Microbiology (South Central branch), Louisiana State University Health Sciences Center, New Orleans, LA, October 29-30, 1999.
9. Graduate Assistantship, Department of Microbiology and Immunology, University of Arkansas for Medical Sciences (UAMS), Little Rock, AR (1996-2000).

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10. University Grants Commission of India-Junior Research Fellowship, National Institute of Immunology, New Delhi, India, 1995.
11. Jiwaji University, India, junior year academic merit scholarship (1991).
12. Jiwaji University, India, sophomore year academic merit scholarship (1990).

INTERNAL INSTITUTIONAL SERVICE (Committees, Councils, Task Forces)

A. Department

1. Director, Diagnostic Immunology and Flow Cytometry Laboratory at the Ann and Robert H. Lurie Children's Hospital of Chicago (*a full-service CLIA and CAP-certified high complexity immunology laboratory; a Jeffrey Modell Foundation Diagnostic and Research Laboratory for Primary Immunodeficiency Diseases/Inborn Errors of Immunity*).
2. Chair, Mission and Vision Task Force, Department of Pathology, Ann and Robert H. Lurie Children's Hospital of Chicago as part of the Departmental Five-Year Strategic Planning Leadership Group (Spring 2013).
3. Member, Search Committee established to recruit an Assistant Director of Clinical Chemistry and Director of Point-of-Care testing (POCT), Ann and Robert H. Lurie Children's Hospital of Chicago (Fall 2013).
4. Member, Search Committee established to recruit a pediatric hematopathologist, Ann and Robert H. Lurie Children's Hospital of Chicago (Summer 2015).
5. Chair, Reference Laboratory Consolidation Task Force, Department of Pathology, Ann and Robert H. Lurie Children's Hospital of Chicago as part of the Departmental Five-Year Strategic Planning Leadership Group (Spring 2015).
6. Flow Cytometry Section Inspector for the CAP inspection of the Hematogenix Laboratory in Tinley Park, IL, November 3, 2016.
7. Member, Evaluation Committee for faculty candidates applying for the position of the combined Pediatric Anatomic and Hematopathologist position (December 2017).

B. Hospital

1. Associate Director, Ann and Robert H. Lurie Children's Hospital, Federation of Clinical Immunology Societies (FOCIS) Center of Excellence, Chicago (2012-present).
2. Member, Evaluation Committee for faculty candidates applying for the position of the Clinical Director of Primary Immunodeficiency Diseases in the Division of Pediatric Allergy and Immunology (November 2017).
3. Member, Evaluation Committee for a faculty candidate applying to a Physician-Scientist position in the Pediatric Infectious Diseases Division (January 2019).
4. Clinical Core Group Member, Program in Inflammation, Immunology and Microbiome (PrIIME), Ann and Robert H. Lurie Children's Hospital of Chicago.
5. Member, Evaluation Committee for faculty candidates applying to a Stem Cell Transplant physician position in the Division of Hematology, Oncology, Neuro-Oncology and Stem Cell Transplant (April 2022).
6. Employee Performance Management Focus Group [Director and Senior Director Level] (February 2023).
7. Member, Evaluation Committee for a faculty candidate applying to a Transplant-Infectious Diseases physician position in the Division of Infectious Diseases (April 2023).

PROFESSIONAL SOCIETY MEMBERSHIP

- A. Member, Association of Medical Laboratory Immunologists (AMLI)
- B. Member, Federation of Clinical Immunology Societies (FOCIS)

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- C. Member, American Society for Clinical Pathology (ASCP)
- D. Member, Clinical Immunology Society (CIS)

EXTERNAL PROFESSIONAL LEADERSHIP AND SERVICE

1. American Society for Clinical Pathology (ASCP):

- A. ASCP-Board of Certification (BOC), Diplomate in Medical Laboratory Immunology (DMLI) Board of Certification (BOC) Examination Committee (December 2019-Present). The DMLI examination went live on April 1, 2023. Centers for Medicare and Medicaid Services (CMS) approved DMLI as a qualifying board for a high-complexity laboratory director certification on July 26, 2023.
- B. ASCP-Curriculum, Education and Research-Scientific Advisory Council (CER-SAC), Immunology-Scientific Interest Group, Member (January 2021-present).
- C. ASCP-LabQ Medical Advisor: January 2022-present
- D. ASCP Focus Group: Identifying the Barriers and Facilitators to Strengthen the Clinical Laboratory Professional Workforce (August 2020)-Study funded by the Siemens Foundation.
- E. ASCP-Medical Laboratory Scientist (MLS) Certification Examination, Immunology Section Questions Contributor (April 2022).
- F. ASCP Annual Meeting: Abstract Reviewer (2021-Present)
- G. ASCP 2022 Annual Meeting: Chair, CER-SAC Education Session (September 9, 2022).

2. Association of Medical Laboratory Immunologists (AMLI):

- A. AMLI, Continuing Education (CE) Webinar Task Force (January 2021-present).
- B. AMLI, Scientific Affairs Committee (January 2022- December 2022).
- C. AMLI-Future Leaders of Clinical Laboratory Immunology Award Committee (July 2023-Present)
- D. Moderator, AMLI-Continuing Education (CE) Webinar "Genomics and Inborn Errors of Immunity: when to select what test," presented by Dr. Roshini Abraham, PhD, D(ABMLI) (February 18, 2022).
- E. Co-chair, Plenary Session on The Current state of Allergy Tests for the Diagnosis and Monitoring of Food Allergy, 2022 AMLI Annual Meeting (August 13, 2022).
- F. Moderator, AMLI-CE Webinar "Challenges related to poliovirus eradication, and advances in poliovirus vaccines and diagnostics," presented by Dr(s). Kimberly Thompson, Sc.D., and Kamran Badizadegan, MD (March 17, 2023).

3. Federation of Clinical Immunology Societies (FOCIS):

- A. FOCIS, website re-design taskforce (2017-18).
- B. FOCIS, Early Career Member (June 2013-June 2016), Laboratory Medicine "Communities of Practice" (COP).

4. Clinical Immunology Society (CIS):

- A. Member, Investigators of CIS (I-CIS) Committee (Term: October 30, 2023-May 1, 2026)

EDITORSHIPS / EDITORIAL BOARD SERVICE

- A. Review Editor, Editorial Board of Primary Immunodeficiencies (specialty section of **Frontiers in Immunology**; **Impact Factor: 7.300**): January 2022-present.

MANUSCRIPT REVIEW RESPONSIBILITIES

- A. Journal of Allergy and Clinical Immunology: initiated February 1, 2019
- B. Immunologic Research (Springer): initiated June 13, 2020
- C. Heliyon (Cell Press): initiated July 11, 2020

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- D. Journal of Clinical Virology: initiated December 25, 2020
- E. American Association of Clinical Chemistry [AACC] and NEJM Knowledge Plus Learning Lab, Adaptive Learning Program for Laboratory Medicine. Primary Reviewer, "Introduction to Autoimmune Disorders" module: February 22, 2021.
- F. Clinical Chemistry: initiated April 18, 2021
- G. Journal of Applied Laboratory Medicine: initiated June 15, 2021
- H. Frontiers in Immunology: initiated May 24, 2022.
- I. Immunity, Inflammation and Disease (Wiley): initiated May 1, 2023

GRANT REVIEW RESPONSIBILITIES

- A. NIH Early Career Reviewer (ECR) program at the Center for Scientific Review (CSR): January 2019-December 2019; August 2021-present.
- (a) HIV Molecular Virology, Cell Biology, and Drug Development (HVCD) Study Section: November 14-15, 2022.

GRANTS AND SPONSORED AWARDS

A. Past:

1. Agency: National Institute of Allergy and Infectious Diseases (NIAID) sub-contract through the Third Coast-Center for AIDS Research.
ID#: P30 AI117943 sub-contract (Developmental Core Pilot Award)
Title: Evaluation of immune function fitness in vertically-infected HIV+ patients with early ART initiation.
Principal Investigator: Aaruni Khanolkar
Effort: 2.23 calendar months
Direct costs per year: \$49,240 (Year 1); \$7,085 (Year 2)
Total costs for project period: \$84,487.00
Project period: February 1, 2018-March 31, 2020
2. Agency: Shire (formerly Baxalta Inc.)
ID#: BT16-33443
Title: Medical Education Grant for the Ann and Robert H. Lurie Children's Hospital Immunology Group and the Third Coast-Center for AIDS Research (TC-CFAR) at Northwestern University Joint Immunology Seminar
Principal Investigator: Aaruni Khanolkar
Percent Effort: Not applicable
Direct costs per year: \$2900.00
Total costs for project period: \$2900.00
Project period: November 1, 2016-October 31, 2017
3. Agency: Becton-Dickinson Biosciences
ID#: 1001177229 (Immunology Reagents Grant Program)
Title: To Define a Cellular Signature that Predicts Disease Relapse in Pediatric Acute Lymphocytic Leukemia.
Principal Investigator: Aaruni Khanolkar
Effort: 2.00 calendar months
Direct costs per year: \$4000.00 (Year 1); \$3500.00 (Year 2); \$2500.00 (Year 3)
Total costs for project period: \$10,000
Project period: January 1, 2014-December 31, 2016
4. Agency: University of Utah Department of Pathology

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ID#: Medical Laboratory Immunology Fellowship Intramural Research Grant.
Title: Phenotypic and functional characterization of the basophil response in chronic urticaria.
Principal Investigator: Aaruni Khanolkar
Effort: 2.00 calendar months
Direct costs per year: \$5000.00 (Year 1); \$5000.00 (Year 2)
Total costs for project period: \$10,000
Project period: January 1, 2010-June 15, 2012.

5. Agency: University of Arkansas for Medical Sciences (UAMS), Committee for the Allocation of Graduate Student Research Funds (CAGSRF)
ID#: Intramural grant to partially support PhD dissertation research.
Title: Analysis of Epstein Barr virus-specific CD4⁺ T cell cytotoxic effector function
Principal Investigator: Aaruni Khanolkar
Effort: 4.00 calendar months
Direct costs per year: \$3000.00
Total costs for project period: \$3,000
Project period: September 1, 1999-August 31, 2000

RESEARCH PROJECTS (optional) (You may record unfunded projects in this section).

Lurie Children's Hospital is a Jeffrey Modell Center for Primary Immunodeficiency Diseases (PID), and the Diagnostic Immunology and Flow Cytometry laboratory at Lurie Children's is the sole Jeffrey Modell Laboratory for PID in the state of Illinois. The Jeffrey Modell Foundation (JMF) provides philanthropic funding that has partially funded a few of my research initiatives relating to PID, that have resulted in six first and/or corresponding author publications since 2014: PMID 25843602 [Impact Factor (IF): 11.248]; PMID 28927822 [IF: 13.258]; PMID 32215810; PMID 32276922; PMID 36359748 [IF: 7.666]; PMID 36979938.

INVITED TALKS

A. International/National

1. 2022 ASCP Annual Meeting, Chicago, IL: CER-SAC Educational Session, TED Talk (September 9, 2022).
2. Children's Hospital of Philadelphia, University of Pennsylvania, Pathology Grand Rounds (May 4, 2022).
3. Texas Children's Hospital and Baylor College of Medicine Pathology Citywide Grand Rounds (March 14, 2022).
4. St. Jude Children's Research Hospital, Department of Pathology Research Seminar (November 2, 2021).
5. 2021 Annual Meeting of the Federation of Clinical Immunology Societies (FOCIS), June 8-11, 2021 (Oral Presentation, Infectious Diseases Session, June 10, 2021).
6. Friday Conference Seminar, Division of Pediatric Allergy & Immunology, Columbia University Irving Medical Center, New York Presbyterian-Morgan Stanley Children's Hospital (May 14, 2021).
7. Pathology Grand Rounds, Nationwide Children's Hospital, Ohio State University College of Medicine, Columbus, OH (April 27, 2021).
8. Visiting Professor Pathology Grand Rounds, Children's Hospital of Los Angeles, Keck School of Medicine, University of Southern California, Los Angeles, CA (April 16, 2021).
9. Interdisciplinary Immunology Graduate Program Seminar Series, University of Iowa, Iowa City, IA (February 24, 2021).
10. Case Presentation Talk, Association of Medical Laboratory Immunologists (AMLI) 2020 Annual

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Meeting (August 12, 2020).

11. Pediatrics Grand Rounds, Saint Barnabas Medical Center, Department of Pediatrics, Rutgers-New Jersey Medical School (November 3, 2019).
12. Research Seminar, Human Immune Monitoring Core (HIMC) at the Institute of Immunity, Transplantation and Infection (ITI), Stanford University School of Medicine, Stanford, CA (July 27, 2018).
13. Thursday Conference Talk, UCLA-Mattel Children's Hospital, Jeffrey Modell Center for Primary Immunodeficiency Diseases, Los Angeles, CA (March 22, 2018).

B. Regional

1. Ann and Robert H. Lurie Children's Hospital of Chicago, "Pediatric Pearls" Spring 2017-18, Continuing Medical Education (CME) Series-Breakout Session, Schaumburg, IL (April 10, 2018).

C. Local

1. Pediatric Infectious Diseases Division Research Conference, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago (July 28, 2021).
2. Third Coast-Center for AIDS Research (CFAR)-CFAR NIH Grant Pilot Project Webinar, Northwestern University, Chicago (April 19, 2021).
3. Department of Pathology Research Seminar, Northwestern University, Chicago, IL (April 23, 2018).
4. Pathology Grand Rounds, Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, (January 8, 2015).
5. Pediatric Grand Rounds (Bench to Bedside forum), Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago (October 5, 2012).

PUBLICATIONS AND SCHOLARLY WORKS

A. Journal Articles

a. Peer-reviewed Original Investigations:

1. **Khanolkar, A.,** H. Yagita, M.J. Cannon (2001). "Preferential utilization of the perforin/granzyme pathway for lysis of Epstein-Barr virus-transformed lymphoblastoid cells by virus-specific CD4 T cells" (*Virology*, **287**;79-88).
2. **Khanolkar, A.,** Z. Fu, L.J. Underwood, K.L. Bondurant, R. Rochford, M.J. Cannon (2003). "CD4 T cell-induced differentiation of EBV-transformed lymphoblastoid cells is associated with diminished recognition by EBV-specific CD8 cytotoxic T cells" (*J Immunol*, **170**; 3187-3194). **Impact Factor: 6.702.**
3. **Khanolkar, A.,** M.J. Fuller, A.J. Zajac (2004). "CD4 T cell-dependent CD8 T cell maturation" (*J Immunol*, **172**; 2834-2844). **Impact Factor: 6.486.**
4. Fuller, M.J., **A. Khanolkar,** A.E. Tebo, A.J. Zajac (2004). "Maintenance, loss and resurgence of T cell responses during acute, protracted and chronic viral infections" (*J Immunol*, **172**; 4204-4214). **Impact Factor: 6.486.**
5. Hamilton, S.E., Badovinac, V.P., **Khanolkar, A.,** Harty, J.T. (2006). "Listeriolysin O deficient *Listeria monocytogenes* as a vaccine delivery vehicle: antigen-specific CD8 T cell priming and protective immunity" (*J Immunol*, **177**(6); 4012-4020). **Impact Factor: 6.293.**
6. Humphreys, T.D., **Khanolkar, A.,** Badovinac, V.P., Harty, J.T. (2008). "Generation and maintenance of *Listeria*-specific CD8 T cell responses in perforin deficient mice chronically infected with LCMV" (*Virology*;370(2):310-22).
7. **Khanolkar, A.,** Hartwig, S. M., Meyerholz, D. K., Harty, J.T., Varga, S.M. (2009). "TLR4-Deficiency Increases Disease and Mortality After MHV-1 Infection in Susceptible C3H mice" (*J Virol.* 2009

- Sep;83(17):8946-56*). **Impact Factor: 5.150.**
8. **Khanolkar, A.**, Hartwig, S. M., Haag, B.A., Meyerholz, D. K., Epping, L. L., Haring, J.S., Varga, S.M., Harty, J.T. (2009) "Protective and Pathologic Roles of the Innate and Adaptive Immune Responses to Mouse Hepatitis Virus-1 (MHV- 1): Implications for Severe Acute Respiratory Syndrome (SARS) (*J Virol.* 2009 Sep;83(18):9258-72). **Impact Factor: 5.150.**
 9. **Khanolkar, A.**, Epping, L.L., Pham, N.L., Tifrea, D., Harty, J.T. (2010) "T cell Epitope Specificity and Pathogenesis of MHV-1 Induced Disease in Susceptible and Resistant Hosts" (*J Immunol.* 2010 Jul 15;185(2):1132-41). **Impact Factor: 5.745.**
 10. Schmidt, N.W., **Khanolkar, A.**, Hancox, L., Heusel, J.W., Harty, J.T. (2011) "Perforin plays an unexpected role in regulating T-cell contraction during prolonged *Listeria monocytogenes* infection" (*Eur J Immunol.* 2011 Dec 12. doi: 10.1002/eji.201141902).
 11. **Khanolkar, A.**, Williams, M.A., Harty, J. T. (2013) "Antigen experience shapes phenotype and function of memory Th1 cells" (*PLoS One.* 2013 Jun 7;8 (6): e65234. doi: 10.1371/journal.pone.0065234. Print 2013).
 12. **Khanolkar, A.***, Burden, S.J., Hansen, B., Wilson, A.R., Philipps, G.J., Hill, H.R. (2013) "Evaluation of CCR3 as a basophil activation marker" (*Am J Clin Pathol.* 2013 Sep;140 (3):293-300) §. ***Corresponding author.** § Article selected for *Am J Clin Pathol CME exercise.*
 13. Tebo, A.E., Detrick, B, Hamilton, R.G., **Khanolkar, A.**, O'Gorman, M.R., Schmitz. J.L., Abraham, R,S. (2014) "Clinical Laboratory Immunology: An Indispensable Player in Laboratory Medicine" (*Am J Clin Pathol.* 2014 Oct;142(4):437-444).
 14. **Khanolkar, A****, Wilks, J.D., Jennings, L.J., Davies, J.L., Zollett, J.A., Lott, L.L., Fullmer, E.R., Bensen, N.E., Leuer, K.M., Tse, W.T., Fuleihan, R.L. (2015) "Signaling impairments in maternal T cells engrafted in an infant with a novel *IL- 2R γ* mutation" (*J Allergy Clin Immunol*, 2015 Apr;135(4):1093-6.e8). [***Corresponding author,** †*manuscript selected as a "Maintenance of Certification (MOC)-CME article for the American Board of Allergy-Immunology"*]. **Impact Factor: 11.248.**
 15. Bortoletto, P., Lyman, K., Fricchione, M., Camacho, A., **Khanolkar, A.**, Katz, B.Z. (2015) "Chronic Granulomatous Disease (CGD): A Large, Single-Center U.S. Experience" (*Pediatr Infect Dis J.* 2015 Oct;34(10):1110-4).
 16. Galat Y, Dambaeva S, Elcheva I, **Khanolkar A**, Beaman K, Iannaccone PM, Galat V. (2017) "Cytokine-free directed differentiation of human pluripotent stem cells efficiently produces hemogenic endothelium with lymphoid potential" (*Stem Cell Res Ther.* 2017 Mar 17;8(1):67. doi: 10.1186/s13287-017-0519-0). **Impact Factor: 5.116.**
 17. **Khanolkar A***, Kirschmann DA, Caparelli EA, Wilks JD, Cerullo JM, Bergerson JRE, Jennings LJ, Fuleihan RL. (2018) "CD4-T cell-restricted IL-2 signaling defect in a patient with a novel *IFNGR1*-deficiency" (*J Allergy Clin Immunol.* 2018 Jan;141(1):435-439.e7. doi: 10.1016/j.jaci.2017.08). (***Corresponding author**). **Impact factor: 13.258.**
 18. **Khanolkar A***, Wilks JD, Liu G, Simpson BM, Caparelli EA, Kirschmann DA, Bergerson J, Fuleihan RL. (2020) "A case of aberrant CD8 T cell-restricted IL-7 signaling with a Janus kinase 3 defect-associated atypical severe combined immunodeficiency". *Immunol Res.* 2020 Feb;68(1):13-27. doi: 10.1007/s12026-020-09123-x. (***Corresponding author**).
 19. **Khanolkar A***, Wilks JD, Liu G, Caparelli EA, De Moura M, Yap KL, Mustafa A, Kadri S, Huang W, Zheng XT. (2020) "Detailed Phenotypic and Functional Characterization of a Rare, Antibody-Dependent SLAM-Associated Protein Expression Pattern". *Immunohorizons.* 2020 Apr

- 10;4(4):153-164. doi: 10.4049/immunohorizons.1900060. (*Corresponding author).
20. Wei, S.X., Huang, W., Mohamed, F., **Khanolkar, A.**, Zheng, X.T. (2021) "Comparison of Seven Heterophile Antibody Assays for Laboratory Diagnosis of Infectious Mononucleosis in Pediatric Patients". *Journal of Medical Virology*, 2021 Nov;93(11):6404-6407. doi: 10.1002/jmv.27254. Epub 2021 Aug 12
21. **Khanolkar, A.***, Muller, W.J., Simpson, B.M., Cerullo, J., Williams, R., Sowers, S.B., Matthews, K., Mercader, S., Hickman, C.J., D'Aquila, R.T., Liu, G. (2022) "Preservation of lymphocyte functional fitness in perinatally-infected, treated, HIV+ pediatric patients displaying sub-optimal viral control". *Commun Med (Lond)*. 2022;2:25. doi: 10.1038/s43856-022-00085-9. Epub 2022 Mar 4. (*Corresponding author).
22. Khojah, A., Bukhari, A., **Khanolkar, A.**, Khojah, I., Lang, A. (2023) X-Linked Inhibitor of Apoptosis (XIAP) deficiency presenting as hemophagocytic lymphohistiocytosis triggered by drug allergy. *Clinical Immunology Communications*. 2023 Dec; 3: 46-50.
<https://doi.org/10.1016/j.clicom.2023.02.008>
23. Gunderman, L., Brown, J., Chaudhury, S., O'Gorman, M., Fuleihan, R., **Khanolkar, A.***, Ahmed, A.* "Co-Occurring X-Linked Agammaglobulinemia and X-Linked Chronic Granulomatous Disease: Two Isolated Pathogenic Variants in One Patient". *Biomedicines*. 2023 Mar 21;11(3):959. doi: 10.3390/biomedicines11030959. (*Co-corresponding author).
24. Elhodaky M, Gunderman LM, Bachula M, Liu G, Reilly P, Schmidt ML, Frederiksen JK, Lu X, Jennings L, Rossoff J*, **Khanolkar A***, Gong S*. "Relapse of large B-cell lymphoma with IRF4 rearrangement associated with SLAM-Associated Protein deficiency". *Pediatr Blood Cancer*. 2023 May 30:e30478. doi: 10.1002/pbc.30478. (*Co-corresponding author).
25. **Khanolkar, A.***, Spiczka, A., Bonfield, T.L., Alexander, T., Schmitz, J.L., Boras, D., Fong, K., Nandiwada, S.L., Miller, G., Tebo, A.E. "Diplomate in Medical Laboratory Immunology (DMLI) Certification Examination: A New Chapter for Medical Laboratory Immunology". *ImmunoHorizons* (2023) 7 (8); 600-610. (*Corresponding author).
26. **Khanolkar, A.***, Liu, G., Simpson-Schneider, B.M. "Defining the Basal and Immunomodulatory-Mediator Induced Phosphoprotein Signature in Pediatric B cell Acute Lymphoblastic Leukemia (B-ALL) Diagnostic Samples". *International Journal of Molecular Sciences* (2023), 24 (18), 13937. (*Corresponding author). **Impact factor: 5.600.**

b. Invited Reviews and Commentaries

1. **Khanolkar, A.**, M.J. Fuller, A.J. Zajac (2002). "T cell responses to viral infections: Lessons from lymphocytic choriomeningitis virus" (*Immunologic Research*, **26/1-3**; 309-321).
2. **Khanolkar, A.**, Badovinac, V.P., Harty, J.T. (2007). "CD8 T cell memory development: CD4 T cell help is appreciated" (*Immunologic Research*; 39 (1-3): 94-104).
3. **Khanolkar, A.*** (2021) "Elucidating T cell and B cell responses to SARS-CoV-2 in humans: Gaining insights into protective immunity and immunopathology." (*Cells*; 2021 Dec 27;11(1):67. doi: 10.3390/cells11010067). **Impact factor: 7.666.** (*Corresponding author).
4. Mithal, L.B., Arshad, M., Swigart, L.R., **Khanolkar, A.**, Ahmed, A., Coates, B. (2022) "Mechanisms and Modulation of Sepsis-Induced Immune Dysfunction in Children". (*Pediatric Research*; 2022 Jan;91(2):447-453. doi: 10.1038/s41390-021-01879-8.
5. Ahmed, A., Lippner, E., **Khanolkar, A.*** (2022) "Clinical Aspects of B cell Immunodeficiencies: The Past, the Present and the Future."(*Cells*. 2022 Oct 24;11(21):3353. doi: 10.3390/cells11213353). **Impact factor: 7.666.** (*Corresponding author)

B. Chapters

1. Snyder, M.R., Tebo, A.E., **Khanolkar, A.***, Bossuyt, X. (2020). **Chapter 94**: Systemic Autoimmunity. Tietz Textbook of Laboratory Medicine, 7th edition; Senior Editors: Rifai, N., Chiu, R., Young, I., Burnham, C-A., Wittwer, C.T. Publisher: Elsevier (***Specific contribution**: Section on Immune Tolerance).

C. Peer-Reviewed Educational Materials:

1. "The critical role of the immunology laboratory in the diagnostic workup of atypical Severe Combined Immunodeficiency." Lang, A., Ochfeld, E., Ahmed, A., Khojah, A., Yap, K.L., **Khanolkar, A.***, American Society for Clinical Pathology (ASCP)-LabQ Clinical Laboratory Volume Online 2022 [Access Online Courses \(ascp.org\)](https://www.ascp.org) (***Corresponding author**).

D. Oral Abstracts / Presentations (*denotes presenting author)

1. **Khanolkar, A.***, Fu, Z., Rochford, R., and Cannon, M.J. "CD4⁺ T cell induced differentiation of Epstein Barr virus (EBV)-transformed lymphoblastoid cells results in diminished recognition by EBV- specific CD8⁺ cytotoxic T cells." 1999 Annual Meeting of the South-Central Branch of the American Society for Microbiology, Louisiana State University Health Sciences Center, New Orleans, LA, October 29-30, 1999 (Abstract No.: IMM3- 4).
2. **Khanolkar, A.***, Fuller, M.J. and Zajac, A.J. "Phenotypic and functional alterations of virus-specific CD8 T Cells in the absence of CD4 T cell help." 14th Annual University of Alabama of Birmingham, Department of Microbiology Research Retreat, Stone Mountain, GA, November 7-9, 2003, [[Best Oral Presentation by a Post-doctoral Fellow Award](#)].
3. **Khanolkar, A.***, Hartwig, S. M., Pewe, L. L., Haring, J.S., Varga, S.M., Harty, J.T. "Protective and Pathologic Roles of the Innate and Adaptive Immune Responses to Mouse Hepatitis Virus-1 (MHV-1): Implications for Severe Acute Respiratory Syndrome (SARS). 37th Autumn Immunology Conference, Chicago, IL, Nov 21- 24, 2008. (Abstract No. 48).
4. **Khanolkar, A.***, Burden, S.J., Carlton, C.M., Phillipps, G., Delgado, J., Hill, H.R. "Phenotypic and functional characterization of the basophil response in chronic urticaria." Department of Pathology Clinical Fellows Grand Rounds, University of Utah, Salt Lake City, UT, 84108, June 11, 2010 (Abstract No. 6), [[2nd prize](#)].
5. **Aaruni Khanolkar***. "A case of aberrant CD8 T cell restricted IL-7 signaling with a Janus Kinase 3 defect-associated atypical severe combined immunodeficiency". 33rd Annual Scientific (Virtual) Meeting of the Association of Medical Laboratory Immunologists, August 3-31, 2020; (<https://www.amli.org/2020-annual-meeting/program/>) (Plenary Session 2- Part 2, August 12, 2020).
6. **Aaruni Khanolkar***. "Preservation of Lymphocyte Functional Fitness in Perinatally Infected HIV+ Pediatric Patients with Sub-optimal Viral Control." Annual (Virtual) Meeting of the Federation of Clinical Immunology Societies (FOCIS), June 8-11, 2021; (Infectious Diseases Session, June 10, 2021), [[2021 FOCIS Annual Meeting Research Award](#)].

E. Poster Abstracts / Presentations (*denotes presenting author)

1. Zheng Fu, Rosemary Rochford, **Aaruni Khanolkar**, Martin J. Cannon*. "T cell mediated induction of the EBV lytic cycle in latently infected B cells." **The 23rd International Herpesvirus Workshop**, York, U.K., August 1999.
2. **Khanolkar, A.***, Cannon, M.J., "Functional consequences of CD4⁺ T cell interaction with

- Epstein Barr virus transformed B cells; implications for immunosurveillance and viral pathogenesis". **Student Research Week, University of Arkansas for Medical Sciences**, Little Rock, AR, March 3, 1999.
3. **Khanolkar, A.**, Cannon, M.J.*, "Functional analysis of the CD4⁺ T cell response to Epstein Barr virus (EBV)". **European EBV meeting**, Edinburgh, Scotland, U.K., July 1, 1999.
 4. **Khanolkar, A.***, Z, Fu., Rochford, R., Cannon, M.J. "CD4⁺ T cell induced differentiation of EBV transformed lymphoblastoid cells results in diminished recognition by EBV-specific CD8⁺ cytotoxic T cells." **Keystone Symposia 2000 (A7)-Cellular Immunity and Immunotherapy of Cancer**, Santa Fe, NM, January 21-27, 2000 (Abstract No.:328). (Abstract selected for Travel Award from the Keystone Symposia)
 5. **Khanolkar, A.***, Z, Fu., Rochford, R., Cannon, M.J. "CD4⁺ T cell induced differentiation of EBV transformed lymphoblastoid cells results in diminished recognition by EBV-specific CD8⁺ cytotoxic T cells." **Student Research Week, University of Arkansas for Medical Sciences**, Little Rock, AR, April 4-6, 2000 (Poster No.:8). (Best Poster Award).
 6. **Khanolkar, A.***, Yagita, H., Cannon, MJ., "Mechanisms of target cell lysis employed by Epstein Barr virus-specific CD4⁺ T cells." **2000 Joint Meeting of the American Association of Immunologists and the Clinical Immunology Society**, Seattle, WA, May 12-16, 2000 (Abstract No.:50.31).
 7. **Khanolkar, A.**, Z, Fu., Underwood, L.J., Bondurant, K.L., Cannon, M.J., Rochford, R*. "CD4⁺ T cells induce plasmacytoid differentiation of Epstein-Barr virus-transformed lymphoblastoid cells." **The 10th Biennial Conference of the International Association for Research on Epstein-Barr Virus and Associated Diseases**, Cairns, Australia, July 16-21, 2002 (Poster No.:116).
 8. **Khanolkar, A.***, Zajac, A.J. "CD4 T cell dependent maturation of CD8 T cell Responses." **The 13th Annual UAB Microbiology Research Retreat**, Gulf Shores, AL, November 15-17, 2002. (Best Poster Award).
 9. Fuller, M.J.* , **Khanolkar, A.**, Tebo, A.E. and Zajac, A.J. "Dysregulation of virus-specific T cell responses in chronically infected hosts." **American Association of Immunologists 90th Anniversary Annual Meeting**, Denver, CO, May 6-10, 2003 (Abstract No.: 80.7).
 10. **Khanolkar, A.***, Fuller, M.J. and Zajac, A.J. "Phenotypic and functional alterations of virus-specific CD8 T Cells in the absence of CD4 T cell help." **American Association of Immunologists 90th Anniversary Annual Meeting**, Denver, CO, May 6-10, 2003 (Abstract No.: 80.34).
 11. **Khanolkar, A.***, Fuller, M.J. and Zajac, A.J. "Phenotypic and functional alterations of virus-specific CD8 T Cells in the absence of CD4 T cell help." **University of Alabama at Birmingham-Comprehensive Cancer Center, 2003 Annual Research Retreat**, Birmingham, AL, October 27, 2003 (Abstract No.:204).
 12. **Khanolkar, A.***, Fuller, M.J. and Zajac, A.J. "Phenotypic and functional alterations of virus-specific CD8 T Cells in the absence of CD4 T cell help." **14th Annual UAB Department of Microbiology Research Retreat**, Stone Mountain, GA, November 7-9, 2003.
 13. **Khanolkar, A.***, Pewe, L., Hartwig, S., Tifrea, D., Perlman, S., Harty, J.T. "Developing MHV1 infection of mice as an animal model for Severe Acute Respiratory Syndrome (SARS)." **American Association of Immunologists 94th Annual Meeting**, Miami, FL, May 18-22, 2007 (Abstract No.43.30).
 14. **Khanolkar, A.***, Pewe, L., Hartwig, S., Varga, S.M., Perlman, S., Harty, J.T. "Innate and Adaptive Immune Responses to MHV-1: Implications for Severe Acute Respiratory

- Syndrome (SARS)". **University of Iowa Research Week**, Iowa City, IA, April 1-2, 2008.
15. Schmidt, N.W.*, **Khanolkar, A.**, Harty, J.T. "Multigenic mechanisms ensure T cell contraction and prevent mortality during persistent infections," **Experimental Biology 2008 Annual Meeting**, San Diego, CA, April 5-9, 2008 (Abstract No. 858.2).
 16. **Khanolkar, A.***, Hartwig, S. M., Pewe, L. L., Haring, J.S., Varga, S.M., Harty, J.T. "Protective and Pathologic Roles of the Innate and Adaptive Immune Responses to Mouse Hepatitis Virus-1 (MHV-1): Implications for Severe Acute Respiratory Syndrome (SARS). **37th Autumn Immunology Conference**, Chicago, IL, Nov 21- 24, 2008. (Abstract No. 48).
 17. **Khanolkar, A.***, Hartwig, S., Epping, L., Haring, J.S., Haag, B., Varga, S.M., Harty, J.T. "Protective and Pathologic Roles of the Innate and Adaptive Immune Responses to Mouse Hepatitis Virus-1 (MHV-1): Implications for Severe Acute Respiratory Syndrome (SARS)". **University of Iowa College of Medicine Research Week**, Iowa City, IA, April 14-15, 2009 (Abstract No. 38).
 18. Haag, B.A.*, Hartwig, S., **Khanolkar, A.**, Harty, J.T., Varga, S.M., "TLR4-deficient C3H/HeJ mice exhibit enhanced disease and mortality following intranasal MHV-1 infection". **American Association of Immunologists 96th Annual Meeting**, Seattle, WA, May 8-12, 2009 (Abstract No. 44.23).
 19. **Khanolkar, A.***, Hartwig, S., Epping, L., Haring, J.S., Haag, B., Varga, S.M., Harty, J.T. "Protective and Pathologic Roles of the Innate and Adaptive Immune Responses to Mouse Hepatitis Virus-1 (MHV-1): Implications for Severe Acute Respiratory Syndrome (SARS)". **American Association of Immunologists 96th Annual Meeting**, Seattle, WA, May 8-12, 2009 (Abstract No.128.8).
 20. **Khanolkar, A.***, Charlton, C.M., Burden, S.J., Wilson, A.R., Philipps, G.J., Martin, T.B., Delgado, J.C., Gundlapalli, A.V., Hill, H.R. "Evaluation of basophil- associated CCR3 expression to determine functional responsiveness of basophils in chronic urticaria patients". **Clinical Immunology Society (CIS) Annual Meeting**, Chicago, IL, May 19-22, 2011 (Poster No. 1).
 21. Fullmer, E.* , Wilks, J., Zollett, J., Davies, J., Lott, L., Bensen, N., **Khanolkar, A.** "Validation of a flow-cytometry based assay to aid in the diagnosis of X-Linked Agammaglobulinemia." **9th Annual Lewis Landsberg Research Day**, Feinberg School of Medicine, Northwestern University, Chicago, April 4, 2013.
 22. **Khanolkar, A.***, Williams, M.A., Harty, J. T. "Antigen experience shapes phenotype and function of memory Th1 cells". **Federation of Clinical Immunology Societies (FOCIS) meeting**, Boston, MA, June 27-30, 2013; 2013 FOCIS Meeting Abstract Supplement, Page 88 (Poster T. 48).
 23. **Khanolkar, A.***, Burden, S.J., Wilson, A.R., Philipps, G.J., Hill, H.R. "Evaluation of CCR3 as a basophil activation marker". **World Allergy Organization (WAO)- Symposium on Immunotherapy and Biologics**, Chicago, IL, Dec 13-14, 2013; 2013 WAO Meeting Abstract Supplement, Page 17, (Poster 1018). ([Top Abstract Award](#)).
 24. Davies, J.* , Bensen, N., **Khanolkar, A.** "Validation of a flow-cytometry based assay to aid in the diagnosis of X-Linked Lymphoproliferative Disease-Type 1 (XLPD-1; Duncan Disease)". **10th Annual Lewis Landsberg Research Day**, Feinberg School of Medicine, Northwestern University, Chicago, April 3, 2014. (Poster C051).
 25. Bortoletto, P.* , Lyman, K., Fricchione, M., Camacho, A., **Khanolkar, A.**, Katz, B.Z. (2014) "Chronic Granulomatous Disease (CGD): A Large, Single-Center U.S. Experience". **10th Annual Lewis Landsberg Research Day**, Feinberg School of Medicine, Northwestern University, Chicago, April 3, 2014. (Poster C122).

26. Bortoletto, P.*, Lyman, K., Camacho, A., **Khanolkar, A.**, Katz, B.Z. "Chronic Granulomatous Disease (CGD): A Large, Single Center US Experience." **Pediatric Academic Society/Asian Society of Pediatric Research Joint Meeting**, Vancouver, May 3-6, 2014; 2014 PAS Meeting Supplement, www.pas-meeting.org; Page 244, (Publication 3814.261).
27. Beaton, A.*, Kabat, W., Rippe, J., Davies, J., **Khanolkar, A.**, Okello, E., Aliku, T., Lubega, S., Lwabi, P., Sable, C., Shulman, S.T. "Usefulness of Anti-Streptococcal Antibody Profiling for Confirmation of Latent Rheumatic Heart Disease in Asymptomatic Ugandan Schoolchildren Diagnosed by Echocardiography." **World Congress of Cardiology**, Melbourne, Australia, May 4-7, 2014; Global Heart, Vol 9, Issue 1, Supplement, March 2014, Page e278 (Poster PW089).
28. **Khanolkar, A.***, Lott, L., Zollett, J., Fullmer, E., Davies, J., Wilks, J., Bensen, N., Jennings, L.J., Leuer, K.M. "Functionally Impaired Maternally-Derived Memory T cell Engraftment in an Infant Harboring a Novel IL-2 Receptor Common Gamma Chain (CD132) Mutation". **Federation of Clinical Immunology Societies (FOCIS) meeting**, Chicago, IL, June 25-28, 2014; 2014 FOCIS Meeting Abstract Supplement, Page 146 (Poster W. 102).
29. **Khanolkar, A.***, Lott, L., Zollett, J., Fullmer, E., Davies, J., Wilks, J., Bensen, N., Jennings, L.J., Leuer, K.M. "Functionally Impaired Maternally-Derived Memory T cell Engraftment in an Infant Harboring a Novel IL-2 Receptor Common Gamma Chain (CD132) Mutation". **College of American Pathologists' 2014 Annual Meeting**, Chicago, IL, Sept 7-10, 2014; Arch Path Lab Med, Vol 138, Page e175, September 2014 (Poster 121).
30. **Khanolkar, A.**, Wilks, J.*, Tse, W.T., Fuleihan, R.L. "In-depth diagnostic immune- profiling of two X-linked Severe Combined Immune Deficiency (SCID) siblings identified through the Illinois newborn SCID screening program". **12th Annual Lewis Landsberg Research Day**, Feinberg School of Medicine, Northwestern University, Chicago, April 7, 2016 (Poster).
31. Bergerson, R.E.J.*, **Khanolkar, A.**, Cohran, V., Fuleihan, R.L. "A novel IL-10 receptor gene mutation causing severe neonatal intestinal inflammation". **Clinical Immunology Society (CIS) Annual Meeting**, April 14-17, 2016, Boston, MA; Journal of Clinical Immunology (2016) 36: Page 320 (Abstract: 4643; Poster 165).
32. **Khanolkar, A.**, Wilks, J., Tse, W.T., Fuleihan, R.L.* "In-depth diagnostic immune- profiling of two X-linked Severe Combined Immune Deficiency (SCID) siblings identified through the Illinois newborn SCID screening program". **Clinical Immunology Society (CIS) Annual Meeting**, April 14-17, 2016, Boston, MA; Journal of Clinical Immunology (2016) 36: Page 322 (Abstract: 4650; Poster 171).
33. **Khanolkar, A.***, Wilks, J., Tse, W.T., Fuleihan, R.L. "In-depth diagnostic immune- profiling of two X-linked Severe Combined Immune Deficiency (SCID) siblings identified through the Illinois newborn SCID screening program". **American Society of Clinical Investigation, American Physician-Scientists Association and the American Association of Physicians (ASCI, APSA, AAP) Joint Meeting**, April 15-16, 2016, Chicago, IL; 2016 Joint Meeting Abstract Supplement (www.jointmeeting.org), Pages 72-73, (Poster: 98).
34. Jenna R.E. Bergerson*, Jeffrey D. Wilks, Guorong Liu, Bridget M. Simpson, Edward A. Caparelli, Dawn A. Kirschmann, Lawrence J. Jennings, Ramsay L. Fuleihan and **Aaruni Khanolkar**. "T cell lymphopenia with JAK3 Mutations associated with decreased signaling through the IL-7 Receptor". **2017 Clinical Immunology Society (CIS) Annual Meeting**, March 23-26, 2017, Seattle, WA; Journal of Clinical Immunology (2017) 37: Page 258 (Abstract: 5396; Poster 10).
35. **Aaruni Khanolkar***, Dawn A. Kirschmann, Edward A. Caparelli, Jenna R.E. Bergerson, Lawrence J. Jennings, Ramsay L. Fuleihan. "CD4 T cell restricted IL-2 Signaling Defect in a Patient with a Novel *IFNGR1* Mutation". **17th Annual Meeting of the Federation**

- of **Clinical Immunology Societies (FOCIS)**, June 14- 17, 2017, Chicago, IL 2017; 2017 FOCIS Meeting Abstract Supplement Page 89 (Poster: W.58).
36. **Aaruni Khanolkar***, Jeffrey D. Wilks, Guorong Liu, Bridget M. Simpson, Dawn A. Kirschmann, Edward A. Caparelli, Jenna R.E. Bergerson, Lawrence J. Jennings, Ramsay L. Fuleihan. "High resolution immune function analyses reveal markedly attenuated IL-7 signaling function restricted to the CD8 T cell compartment in an immunocompromised neonate". **American Society of Clinical Investigation, American Physician-Scientists Association and the American Association of Physicians (ASCI, APSA, AAP) Joint Meeting**, April 20-22, 2018, Chicago, IL; 2018 Joint Meeting Abstract Supplement (www.jointmeeting.org), Pages 75-76 (Poster: 150).
37. Jenna Bergerson*, **Aaruni Khanolkar**, Lawrence Jennings, William Tse, Ramsay Fuleihan, MD. "A case of complete STAT1 loss of function". **Clinical Immunology Society (CIS) Annual Meeting**, April 26-29, 2018, Toronto, Canada; *Journal of Clinical Immunology* (2018) 38: Pages 330-331 (Abstract: 382424; Poster 75).
38. **Aaruni Khanolkar***, Jeffrey D. Wilks, Guorong Liu, Edward A. Caparelli. "Over- expression of a specific signaling lymphocyte activation molecules-associated protein epitope identifies polyfunctional virus-specific memory CD8 T cells". **American Society of Clinical Investigation, American Physician-Scientists Association and the American Association of Physicians (ASCI, APSA, AAP) Joint Meeting**, April 5-7, 2019, Chicago, IL; 2019 Joint Meeting Abstract Supplement (www.jointmeeting.org), Pages 100-101 (Poster: 149).
39. **Aaruni Khanolkar***, Jeffrey Wilks, Guorong Liu, Bridget Simpson, Edward Caparelli, Dawn Kirschmann, Jenna Bergerson, Ramsay Fuleihan. Persistent CD8 T cell restricted aberrant IL-7 signaling in an atypical (T-B+NK+) SCID patient with compound heterozygous JAK3 mutations. **2020 American Academy of Allergy, Asthma and Immunology Annual (Virtual) Meeting**. March 12-16, 2020; *J Allergy Clin Immunol*, Vol 145, No.2, Abstracts AB213 (Poster 685).
40. Madeline Schutt*, Elisa Ochfeld, **Aaruni Khanolkar**, Amer Khojah. Extended Features of IL-10 Receptor Deficiency in the Setting of Delayed Stem Cell Transplantation. **American College of Allergy, Asthma and Immunology (ACAAI) 2020 Annual Scientific (Virtual) Meeting**. November 13-15, 2020; *Annals of Allergy, Asthma Immunol*, 125 (2020), S89-90, Abstract and Poster: M267.
41. Abigail Lang*, Aisha Ahmed, Nashmia Qamar, **Aaruni Khanolkar**, Kai Lee Yap, Amer Khojah. Atypical presentation of T-/B+/NK+ SCID with Omenn-like phenotype attributable to a hemizygous variant in *IL2RG*. **2021 Clinical Immunology Society (CIS) Annual (Virtual) Meeting**. April 14-17, 2021. *Journal of Clinical Immunology* (2021) 41 (Suppl 1): S1–S135 (Page S45; Abstract: 81).
42. **Aaruni Khanolkar***, William J. Muller, Bridget M. Simpson, Jillian Cerullo, Ruth Williams, Sun Bae Sowers, Kiana Matthews, Sara Mercader, Carole J. Hickman, Richard T. D'Aquila, Guorong Liu. "Preservation of Lymphocyte Functional Fitness in Perinatally Infected HIV+ Pediatric Patients with Sub-optimal Viral Control." **Annual Meeting (Virtual) of the Federation of Clinical Immunology Societies (FOCIS)**, June 8-11, 2021 (Abstract selected for 2021 Research Award). 2021 FOCIS Meeting Abstract Supplement Page 87 (Poster: Th5).
43. **Aaruni Khanolkar***, William J. Muller, Bridget M. Simpson, Jillian Cerullo, Ruth Williams, Sun Bae Sowers, Kiana Matthews, Sara Mercader, Carole J. Hickman, Richard T. D'Aquila, Guorong Liu. "Preservation of Lymphocyte Functional Fitness in Perinatally Infected HIV+ Pediatric Patients with Sub-optimal Viral Control." **2021 International AIDS Society (IAS) (Virtual) Conference on HIV Science**, July 18-21, 2021; IAS 2021 Meeting Abstract Booklet; Page 110 (E-Poster: PEB066).

44. Schutt, M., Boisson, B., Casanova, J-L., **Khanolkar, A.**, Khojah, A. "Novel NF-kappa B Inhibitor Alpha Gain of Function Variant in an Infant with Lymphocytosis, and Recurrent Serratia Bacteremia. **2022 Clinical Immunology Society (CIS) Annual (Hybrid) Meeting**, March 31-April 3, Charlotte, NC. *Journal of Clinical Immunology* (2022) 42 (Suppl 1): S1–S115 (Page S94; Abstract: 160).
45. Gunderman, L., Lippner, E., Ahmed, A., Rossoff, J., **Khanolkar, A.** "SAP Deficiency Presenting in a Child with Recurrent Diffuse Large B cell Lymphoma." **American College of Allergy, Asthma and Immunology (ACAAI) Annual Scientific Meeting, Louisville, KY;** November 10-14, 2022. *Annals of Allergy, Asthma Immunol*, Volume 129, Issue 5 (2022), S145-146, Abstract and Poster: Poster: M277.
46. Visitsunthorn, K., **Khanolkar, A.**, Izadi, N. "A novel STAT3 splice site variant resulting in autosomal Hyper-IgE Syndrome". **2023 American Academy of Allergy, Asthma and Immunology Annual Meeting**, February 24-27, San Antonio, TX.
47. Schutt, M., Gunderman, L., Lippner, E., Ahmed, A., **Khanolkar, A.**, Khojah, A. "An unexpected diagnosis of MAGT1 deficiency in a patient with CVID-like features, Molluscum Contagiosum and Atopy". **2023 Clinical Immunology Society (CIS) Annual Meeting**, May 18-21, St. Louis, MO. *Clinical Immunology* 250S 2023 109454 (page 57; Abstract 107).

TEACHING AND MENTORING

- A. "Laboratory Diagnosis of Primary Immunodeficiency Diseases" lecture to M1 students at Feinberg School of Medicine as part of Foundations-III Module, Science in Medicine-Element/Thread (2013-16).
- B. "Advances in Screening Tests for Tuberculosis" lecture to M1 students at Feinberg School of Medicine as part of Pulmonary Module, Science in Medicine-Element/Thread (2014-20).
- C. Develop and teach laboratory data presentation for the Primary Immunodeficiency (PID) case conference to the Feinberg School of Medicine Division of Allergy & Immunology clinical fellows (two-three presentations each academic year, 2012-2017).
- D. Mentored and supported scholarship efforts of four T32-supported clinical allergy and immunology fellows. These fellows have assumed staff clinician/faculty positions at NIH, Children's Hospital of Philadelphia, Seattle Children's Hospital and Lurie Children's Hospital of Chicago.
- E. Clinical Pathology (CP)-Didactic Lecture Presentations (four presentations each academic year for the years 2012-13 until 2017-2018. Two presentations per year 2018-2019 onwards).
- F. Clinical Pathology Resident-Immunology Laboratory rotation didactic lectures (8-9 lectures/year, 2012-2022).
- G. Research project committee member for Dr. Anil George, MD, Pediatric Hematology/Oncology Fellow, University of Illinois at Chicago College of Medicine. Research Project: Investigating the expression of immune checkpoint molecules in pediatric ALL and AML patients as a potential biomarker for disease status (2018-2019).
- H. Lurie Children's Hospital Specialty Laboratories Continuing Education (CE) lectures for Medical Laboratory Scientists and Technologists: on demand.
- I. Microbial immunology and allergy didactics to clinical immunology, medical microbiology fellows and residents in the Department of Pathology at the University of Utah (2010-2012).
- J. Mentored 2nd year MD/PhD student, Jennifer S. Guimbellot, during summer research internship, Department of Microbiology, University of Alabama at Birmingham (2003).

