

CURRICULUM VITAE

JOEL R. WILMORE PH.D.

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PROFESSIONAL POSITIONS

SUNY Upstate Medical University, Syracuse, NY, USA

Assistant Professor

2019-Present

Department of Microbiology and Immunology

EDUCATION

University of Pennsylvania, Philadelphia PA

Postdoctoral Research Fellow

2012-2019

Mentor: David M. Allman Ph.D.

State University of New York Upstate Medical University, Syracuse, NY

PhD in Microbiology and Immunology

2007-2012

Adviser: Rosemary Rochford Ph.D.

Rochester Institute of Technology, Rochester, NY

B.S. Biotechnology

2004-2007

AWARDS

PennCHOP Microbiome Program Abstract Award (4th Annual Symposium)

2017

AAI Young Investigator Award

2017

(20th Annual Upstate New York Immunology Conference)

eBioscience Travel Award

2016

(19th Annual Upstate New York Immunology Conference)

Ryan Wychowanec PennFlow Award, University of Pennsylvania

2016

NIH F32 Ruth L. Kirschstein National Research Service Award

2015 – 2017

AAI Trainee Abstract Award (Immunology 2014 AAI Annual Meeting)

2014

Professional and Public Service Award, SUNY Upstate Medical University

2012

Written Research Proposal Award, SUNY Upstate Medical University

2011

President's Scholarship, Rochester Institute of Technology

2004 – 2007

PUBLICATIONS

Newell, KL, Clemmer, DC, Cox, JB, Kayode, YI, Zoccoli-Rodriguez, V, Taylor, HE, Endy, TP, **Wilmore, JR**, and Allman, D. "Switched and unswitched memory B cells detected during SARS-CoV-2 convalescence correlate with limited symptom duration." *PLoS One*. 2021 Jan 28;16(1):e0244855.

Allman, D, **Wilmore, JR**, and Gaudette, BT. "The Continuing Story of T-cell Independent Antibodies." *Immunological Reviews*. 2019 Mar;288(1):128-135. (Review article)

Wilmore, JR, Gaudette, BT, Gomez Atria, D, Hashemi, T, Jones, DD, Gardner, CA, Cole, SD, Mistic, A, Beiting, D, and Allman, D. "Commensal microbes induce serum IgA responses that protect against polymicrobial sepsis." *Cell Host & Microbe*. 2018 Mar 14;23(3):302-311.

Wohlford, EM, Baresel, PC, **Wilmore, JR**, Mortelliti, AJ, Coleman, CB, and Rochford, R. "Changes in tonsil B cell phenotypes and EBV receptor expression in children under 5 years old." *Cytometry Part B: Clinical Cytometry*. 2018 Mar;94(2):291-301.

Wilmore, JR, and Allman, D. "Here, there, and anywhere? Arguments for and against the physical plasma cell survival niche." *Journal of Immunology*. Aug 1;199(3):839-845. (Review article)

Wilmore, JR, Jones, DD, and Allman, D. "Protocol for improved resolution of plasma cell subpopulations by flow cytometry." *European Journal of Immunology*. 2017 Aug; 47(8):1386-1388.

Wilmore, JR, Maue, AC, and Rochford, R. "*Plasmodium chabaudi* induces AID expression in transitional and marginal zone B cells." *Immunity, Inflammation and Disease*. 2016 Nov 28;4(4):497-505.

Jones, DD, Gaudette, BT, **Wilmore, JR**, Chernova, I, Bortnick, A, Weiss, BM, and Allman, D. "mTOR has distinct functions in generating versus sustaining humoral immunity." *Journal of Clinical Investigation*. 2016 Nov 1;126(11):4250-4261.

Jones, DD, **Wilmore, JR**, and Allman, D. "Cellular dynamics of memory B cell populations: IgM+ and IgG+ memory B cells persist indefinitely as quiescent cells." *Journal of Immunology*. 2015 Nov 15;195(10):4753-9.

Wilmore, JR, Asito, AS, Wei, C, Piriou, E, Sumba, PO, Sanz, I, and Rochford, R. "AID expression in peripheral blood of children living in a malaria holoendemic region is associated with changes in B cell subsets and Epstein-Barr virus." *International Journal of Cancer*. 2015 Mar 15;136(6):1371-80.

Chernova, I, Jones, DD, **Wilmore, JR**, Bortnick, A, Yucel, M, Hershberg, U, and Allman, D. "Lasting antibody responses are mediated by a combination of newly formed and established bone marrow plasma cells drawn from a clonally distinct precursors." *Journal of Immunology*. 2014 Nov 15;193(10):4971-9.

Wilmore, JR*, Maue, AC*, Lefebvre, JS, Haynes, L, and Rochford, R. "Acute *Plasmodium chabaudi* infection dampens humoral responses to a secondary T-dependent antigen but enhances responses to a

secondary T-independent antigen." *Journal of Immunology*. 2013 Nov 1;191(9):4731-9. (* indicates equal contribution)

Ptaschinski, C, **Wilmore, J**, Fiore, N, and Rochford, R. "In vivo activation of toll-like receptor-9 induces an age dependent abortive lytic cycle reactivation of murine gammaherpesvirus-68." *Viral Immunology*. 2010 Dec;23(6):547-55.

Hudson, CA, Christophi, GP, Gruber, RC, **Wilmore, JR**, Lawrence, DA, and Massa, PT. Induction of IL-33 expression and activity in central nervous system glia. *Journal of Leukocyte Biology*. 2011 Feb;84(2):319.

ORAL PRESENTATIONS

Immunochemistry and Immunobiology Gordon Research Conference	2018
4 th Annual Microbiome Symposiom – PennCHOP Microbiome Program	2017
20 th Annual Upstate New York Immunology Conference	2017
19 th Annual Upstate New York Immunology Conference	2016
PennFlow 2016, Invited talk	2016
Immunology 2014 AAI Annual Meeting	2014

ABSTRACTS

Immunochemistry and Immunobiology Gordon Research Conference, Mount Snow, VT. June 2018. "IgA Plasma Cells Express Unique Transcriptional Programs in the Gut and Bone Marrow." **Wilmore, J**, Gaudette, B, Atria Gomez, D, and Allman, D.

20th Annual Upstate New York Immunology Conference, Bolton Landing, NY. October 2017. "Commensal Microbes Induce Serum IgA Responses that Protect against Polymicrobial Sepsis." **Wilmore, J**, Gaudette, B, Atria Gomez, D, and Allman, D.

19th Annual Upstate New York Immunology Conference, Bolton Landing, NY. October 2016. "Commensal Microbes Drive the Generation of Systemic IgA Responses." **Wilmore, J**, Gaudette, B, Meng, Luning Prak, ET, and Allman, D.

The Golden Anniversary of B cell Discovery – Keystone Symposium, Banff, Alberta, Canada, March 2015. "Commensal bacteria control systemic IgA induction." **Wilmore, J**, Sonnenberg, G, Artis, D, and Allman, D.

The American Association of Immunologists 101st Annual Meeting, Pittsburgh, PA, May 2014. "Segmented filamentous bacteria induce systemic IgA responses to commensal bacteria." **Wilmore, J**, Sonnenberg, G, Artis, D, and Allman, D. (Selected for an oral presentation).

The American Association of Immunologists 98th Annual Meeting, San Francisco, CA, May 2011. "*Plasmodium chabaudi* infection alters B cell homeostasis and disrupts development of heterologous immunity." **Wilmore, J**, Maue, A, and Rochford, R.

The Charles R. Ross Memorial Student Research Day, SUNY Upstate Medical University, Syracuse, NY, April 2011. "*Plasmodium chabaudi* infection alters B cell homeostasis and disrupts development of heterologous immunity." **Wilmore, J**, Maue, A, and Rochford, R. (Selected for Oral Platform Presentation).

The American Society of Tropical Medicine and Hygiene 59th Annual Meeting, Atlanta, GA, November 2010. Acute *Plasmodium chabaudi* infection leads to loss of transitional B cells in the spleen. **Wilmore, J**, Maue, A, and Rochford, R.

Upstate New York Immunology Conference, 12th Annual Meeting, Bolton Landing, NY, October 2009. Infection with *P. chabaudi* Results in Elevated and Sustained Levels of AID Expression. **Wilmore, J**, Maue, A, and Rochford, R.

Upstate New York Immunology Conference, 12th Annual Meeting, Bolton Landing, NY, October 2009. Infection of Mice with *Plasmodium chabaudi* affects the Development of a Heterologous Immune Response. Maue, A, **Wilmore, J**, and Rochford, R.

The 34th International Herpesvirus Workshop, Ithaca, NY, July 2009. In vivo activation of toll-like receptor 9 induces an age dependent abortive lytic cycle reactivation of murine gammaherpesvirus-68. **Wilmore, J**, Ptaschinski, C, Fiore, N, and Rochford, R.

SERVICE

2020 – Reviewer for Animal Microbiome

2014 and 2015 - Reviewer for European Journal of Immunology

2014-2015 - University of Pennsylvania Penn Science Student Research Symposium Poster Judge

2009-2011 - Graduate Student Association President, SUNY Upstate Medical University

2009-2010 - SUNY Upstate Student Government Vice-President for College of Graduate Studies

2010-2012 - Graduate Student Employees Union Chief Steward for SUNY Colleges and Medical Universities

2010 - Written Research Proposal Award Grant Reviewer

PROFESSIONAL ASSOCIATIONS

American Association of Immunologists (since 2010)

Society for Mucosal Immunology (since 2015)

GRANT FUNDING RECEIVED

SUNY COVID-19 Pilot Grant	\$7,500
“Monoclonal SARS-CoV-2 IgA Antibodies”	June 2020-December-2020
R03AI156481-01	\$162,000
“Generation of a plasma cell-specific inducible Cre transgenic mouse”	March 2021-February 2023

GRANT FUNDING PENDING

Shock Society Faculty Research Award	\$83,000
“Mechanism of IgA-mediated sepsis protection”	August 2021-July 2023
SUNY Upstate Intramural Pilot Grant	\$50,000
“Longevity of humoral immunity to SARS-CoV-2 induced by infection compared to vaccination”	2021