

Stanislav Dikiy

Memorial Sloan Kettering Cancer Center
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Education

- B.A. Biological Sciences, 2012
University of Chicago
- Ph.D. Immunology and Microbial Pathogenesis, 2021
Weill Cornell Graduate School of Medical Sciences

Experience

Post-doctoral Scholar 08/2021 to present
Memorial Sloan Kettering Cancer Center, New York, NY
Mentor: Alexander Rudensky, Ph.D.

Ph.D. Candidate 09/2014 to 08/2021
Weill Cornell Graduate School of Medical Sciences, New York, NY
Thesis advisor: Alexander Rudensky, Ph.D.
Dissertation: *The role of epigenetic regulation of Foxp3 expression and regulatory T cell differentiation in supporting immune tolerance and organismal homeostasis*

Research Technician 09/2012 to 08/2014
Memorial Sloan Kettering Cancer Center, New York, NY
(laboratory of Alexander Rudensky, Ph.D.)

Undergraduate Thesis Research 01/2010 to 06/2012
University of Chicago, Chicago, IL
Thesis supervisor: Tatyana Golovkina, Ph.D.
Undergraduate Thesis: *Identification of a new locus necessary for retroviral resistance*

Honors, Awards, and Fellowships

General Atlantic Fellowship, Sloan Kettering Institute	2018-2020
Graduated with Honors, University of Chicago	2012
Dean's List, University of Chicago	2008-2010
University Scholarship, University of Chicago	2008
National Merit Scholarship Finalist, NMSC	2008

Mentoring Activities

Mentor, Ph.D. student rotation, Gerstner Sloan Kettering	05/2017 to 06/2017
Mentor, Ph.D. student rotation, Weill Cornell Graduate School	01/2019 to 04/2019

Mentor, High School student summer rotation	07/2020 to 08/2020
Mentor, Ph.D. student rotation, Weill Cornell Graduate School	09/2020 to 12/2020
Mentor, High School student summer rotation	07/2021 to 08/2021
Mentor, Ph.D. student rotation, Weill Cornell Graduate School	04/2022 to 06/2022

Teaching

"Fundamentals of Immunology I & II", TA, Weill Cornell Graduate School	2016-17
"Fundamentals of Immunology I & II", TA, Weill Cornell Graduate School	2017-18
"Research in Progress Seminar Series", TA, Weill Cornell Graduate School	2017-18

Leadership & Service

Co-organizer, IMP student recruitment, Weill Cornell Graduate School	2017, 2018
Organizer and founder, Tri-Institutional Immunology Journal	2014-22

Publications

Dikiy S, Levine AG, Pritykin Y, Krishna C, Glasner A, Leslie CS, Rudensky AY. Terminal differentiation and persistence of effector regulatory T cells essential for the prevention of intestinal inflammation. BioRxiv 2022.05.16.492030. *Manuscript submitted for peer review*.

Dikiy S*, Li J*, Bai L, Jiang M, Janke L, Zong X, Hao X, Hoyos B, Wang ZM, Xu B, Fan Y, Rudensky AY, Feng Y. A distal Foxp3 enhancer enables interleukin-2 dependent thymic Treg cell lineage commitment for robust immune tolerance. Immunity. 2021 May 11;54(5):931-946.e11 *Equal contribution

Cullum E, **Dikiy S**, Beilinson HA, Kane M, Veinbachs A, Beilinson VM, Denzin LK, Chervonsky A, Golovkina T. Genetic Control of Neonatal Immune Tolerance to an Exogenous Retrovirus. J Virol. Nov 2020, 94 (24) e01608-20.

Hemmers S, Schizas M, Azizi E, **Dikiy S**, Zhong Y, Feng Y, Altan-Bonnet G, Rudensky AY. IL-2 production by self-reactive CD4 thymocytes scales regulatory T cell generation in the thymus. J Exp Med. 2019 Nov 4;216(11):2466-2478.

Dikiy S, Rudensky AY. Mouse Watch: A Cautionary Tale. Immunity. 2019 Jul 16;51(1):10-12.

Campbell C*, **Dikiy S***, Bhattarai SK, Chinen T, Matheis F, Calafiore M, Hoyos B, Hanash A, Mucida D, Bucci V, Rudensky AY. Extrathymically Generated Regulatory T Cells Establish a Niche for Intestinal Border-Dwelling Bacteria and Affect Physiologic Metabolite Balance. Immunity. 2018 Jun 19;48(6):1245-1257.e9. *Equal contribution

Denzin LK, Khan AA, Virdis F, Wilks J, Kane M, Beilinson HA, **Dikiy S**, Case LK, Roopenian D, Witkowski M, Chervonsky AV, Golovkina TV. Neutralizing Antibody Responses to Viral Infections Are Linked to the Non-classical MHC Class II Gene H2-Ob. Immunity. 2017 Aug 15;47(2):310-322.e7.

Levine AG, Mendoza A, Hemmers S, Molledo B, Niec RE, Schizas M, Hoyos BE, Putintseva EV, Chaudhry A, **Dikiy S**, Fujisawa S, Chudakov DM, Treuting PM, Rudensky AY. Stability and function of regulatory T cells expressing the transcription factor T-bet. Nature. 2017 Jun 15;546(7658):421-425.

Feng Y, van der Veen J, Shugay M, Putintseva EV, Osmanbeyoglu HU, **Dikiy S**, Hoyos BE, Molledo B, Hemmers S, Treuting P, Leslie CS, Chudakov DM, Rudensky AY. A mechanism for expansion of regulatory T-cell repertoire and its role in self-tolerance. Nature. 2015 Dec 3;528(7580):132-136.

Gasteiger G, Fan X, **Dikiy S**, Lee SY, Rudensky AY. Tissue residency of innate lymphoid cells in lymphoid and nonlymphoid organs. Science. 2015 Nov 20;350(6263):981-5.

Legoux FP, Lim JB, Cauley AW, **Dikiy S**, Ertelt J, Mariani TJ, Sparwasser T, Way SS, Moon JJ. CD4+ T cell tolerance to tissue-restricted self antigens is mediated by antigen-specific regulatory T cells rather than deletion. Immunity. 2015 Nov 17;43(5):896-908.

Arpaia N, Campbell C, Fan X, **Dikiy S**, van der Veen J, deRoos P, Liu H, Cross JR, Pfeffer K, Coffey PJ, Rudensky AY. Metabolites produced by commensal bacteria promote peripheral regulatory T-cell generation. 2013 Dec 19;504(7480):451-5.

Kane M, Case LK, Wang C, Yurkovetskiy L, **Dikiy S**, Golovkina TV. Innate immune sensing of retroviral infection via Toll-like receptor 7 occurs upon viral entry. Immunity. 2011 Jul 22;35(1):135-45.

Kaufman L, Potla U, Coleman S, **Dikiy S**, Hata Y, Kurihara H, He JC, D'Agati VD, Klotman PE. Up-regulation of the homophilic adhesion molecule sidekick-1 in podocytes contributes to glomerulosclerosis. Journal of Biological Chemistry. 2010 Aug 13;285(33):25677-85.