

Kamil Slowikowski

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slowkow.com

EDUCATION

PhD in Bioinformatics and Integrative Genomics (Dissertation)	2012–2019
Harvard University. Boston, Massachusetts.	
BS in Bioinformatics	2007–2011
Loyola University Chicago. Chicago, Illinois.	

GRANT SUPPORT

Predoctoral Individual National Research Service Award (F31-AR070582)	2016–2018
National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS).	
Title: <i>Transcriptomics in synoviocytes defines pathogenesis of rheumatoid arthritis.</i>	

PROFESSIONAL ACTIVITIES

Postdoctoral Associate. Massachusetts General Hospital. (NIAMS T32AR007258)	2019 – Present
Dr. Chloé Villani . Center for Immunology and Inflammatory Diseases.	
Graduate Research Assistant. Harvard Medical School. (NHGRI 2T32HG002295-11)	2013 – 2019
Dr. Soumya Raychaudhuri . Department of Biomedical Informatics.	
Dr. Michael B. Brenner . Division of Rheumatology, Immunology and Allergy, Brigham and Women's Hospital.	
Undergraduate Research Assistant. Loyola University Chicago.	Winter – Summer 2012
Dr. Sushma Reddy . Department of Biology.	
Dr. Catherine Putonti . Department of Biology.	
NSF Research Fellow. University of California Santa Cruz.	Summer 2011
Dr. Todd M. Lowe . Department of Biomolecular Engineering.	
Undergraduate Research Assistant. Loyola University Chicago.	2009–2011
Dr. Howard M. Laten . Department of Bioinformatics.	
NSF Research Fellow. The Field Museum. Chicago, Illinois.	Summer 2010
Dr. Scott Lidgard . Integrative Research Center.	
Independent Software Developer. Chicago, Illinois.	2006–2010
Developed computer game extensions for 17 international clients.	

SOFTWARE AND TUTORIALS

 hlabud (R). HLA genotype analysis in R.	2023
 Cell Guide (HTML, Javascript). Navigate large-scale scRNA-seq datasets in your web browser.	2020
 Immunogenomics.io (R, HTML, Javascript). Websites for RNA-seq data visualization.	2019
 harmony.py (Python). Integrate multiple batches of scRNA-seq datasets (Korsunsky <i>et al.</i> 2019).	2019
 ggrepel (R, C++). Repel overlapping text labels away from each other. Over 25 million downloads.	2016
 snakefiles (Python). Tutorial and Snakefiles for reproducible and scalable RNA-seq data analysis.	2015
 SNPSEA (C++). Identify cell types and pathways affected by genetic risk loci.	2014

EDUCATIONAL ACTIVITIES

Mentor for Harvard-Amgen Scholars. Harvard University.	2017
Student: Gopal Vashishtha. Harvard College.	
Title: <i>Transcriptional dynamics of synovial fibroblasts in rheumatoid arthritis.</i>	
Mentor for Research Science Institute (RSI). Harvard University.	2016 – 2017
Student: Sushil Upadhyayula.	
Title: <i>Dissecting the heterogeneity of CD4+ T cell activation with single cell RNA-seq.</i>	
Instructor. Grades 3-8. The Innovation Institute. Newton, MA.	
<i>Computer Programming for Future Entrepreneurs</i>	2016 – 2017

SCHOLARSHIPS AND AWARDS

Mentorship Award. Arthur L. Irving Family Foundation Cancer Immunology Symposium.	2020
Fifty for the Future Award. Illinois Technology Foundation.	2011
Mulcahy Research Scholar. Loyola University Chicago.	2010–2011
Loyola Presidential Scholarship. Loyola University Chicago.	2007–2011
Dean's List. Loyola University Chicago.	2007–2011

VOLUNTEER ACTIVITIES

Software Developer. cuSTEMized.org in Boston, MA.	2013–Present
Computer Programming Tutor. Loyola University Chicago (LUC).	2010–2011
Emergency Medical Technician - Basic. LUC Emergency Medical Services.	2008–2010

TALKS

8. Web-based data browsers make RNA-seq data accessible to a wide audience.
 - *Federation of Clinical Immunology Societies (FOCIS)*. San Diego, CA. 2020-10-31
7. Single cell dissection of immune checkpoint inhibitor colitis reveals new insights into disease pathogenesis.
 - *Center for Immunology and Inflammatory Diseases Floor Meeting*. Boston, MA. 2020-09-15
6. Identifying transcriptional regulators central to rheumatoid arthritis: transcriptomics of IL-17 dose-response and time series in stromal cells.
 - *Federation of Clinical Immunology Societies (FOCIS)*. Boston, MA. 2019-06-20
5. Transcriptomics reveals the role of synovial fibroblasts in rheumatoid arthritis.
 - *Leena Peltonen School of Human Genomics*. Les Diablerets, Switzerland. 2018-08-19
4. ggrepel: Automatically positioning non-overlapping text labels with 'ggplot2'
 - *Partners R User Group Meeting*. Massachusetts General Hospital, Boston, MA. 2018-07-19
3. Insights into RA pathogenesis from single cell transcriptomics of synovial tissue.
 - *Federation of Clinical Immunology Societies (FOCIS)*. Chicago, IL. 2017-06-14
2. AMP rheumatoid arthritis phase 1: single-cell RNA-seq with CEL-seq2.
 - *Accelerating Medicines Partnership (AMP)*. Houston, TX. 2017-02-15
1. Single-cell transcriptomics reveals disease-associated fibroblast subsets in rheumatoid arthritis.
 - *Joint Biology Consortium*. Brigham and Women's Hospital, Boston, MA. 2017-01-27
 - *Medical and Population Genetics Seminar Series*. Broad Institute, Boston, MA. 2016-04-28
 - *Immunogenomics 2015*. HudsonAlpha Institute, Huntsville, AL. 2015-09-30
 - *Cell Circuits and Epigenomics Program Seminar Series*. Broad Institute, Boston, MA. 2015-06-22

POSTERS

7. Unravelling immune and cellular responses associated with acute COVID-19 infection, symptoms and lethality at single-cell resolution
 - *FOCIS 2020*. San Diego, CA. 2020-10-29

6. ggrepel: Automatically positioning non-overlapping text labels with 'ggplot2'
 - *rstudio::conf 2019*. Austin, TX. 2019-01-17
5. Identifying transcriptional regulators central to rheumatoid arthritis: transcriptomics of IL-17 dose-response and time series in stromal cells.
 - *MGH Division of Rheumatology, Allergy, and Immunology Annual Retreat*. North Falmouth, MA. 2019-10-18
 - *Federation of Clinical Immunology Societies (FOCIS) 2019*. Boston, MA. 2019-06-20
 - *Broad Institute Annual Retreat*. Cambridge, MA. 2018-12-17
 - *ISCB Conference on Regulatory and Systems Genomics*. New York, NY. 2018-12-10
 - *American College of Rheumatology (ACR) Annual Meeting*. San Diego, CA. 2017-11-04
 - *Immune Profiling in Health and Disease*. Seattle, WA. 2016-10-03
4. Single-cell transcriptomics identifies pathogenic synovial fibroblasts in rheumatoid arthritis.
 - *National Human Genome Research Institute (NHGRI) Annual Meeting*. Bethesda, MD. 2016-04-07
 - *4th Annual Single Cell Analysis Investigators Meeting*. Bethesda, MD. 2016-03-02
 - *Harvard Program in Quantitative Genomics Conference*. Boston, MA. 2015-11-05
3. SNPSEA: an algorithm to identify cell types, tissues, and pathways affected by risk loci.
 - *Harvard Graduate Women in Science and Engineering (HGWISE) Symposium*. Cambridge, MA. 2015-04-25
 - *Harvard Biological and Biomedical Sciences (BBS) Retreat*. Provincetown, MA. 2014-08-05
2. Reverse transcriptase SuperScript III adds non-template bases during cDNA polymerization.
 - *Summer Undergraduate Research Symposium*. Santa Cruz, CA. 2011-08-12
1. Retrotransposon-associated minisatellites in the soybean genome.
 - *Great Lakes Bioinformatics Conference*. Athens, OH. 2011-05-03
 - *Loyola Undergraduate Research Symposium*. Chicago, IL. 2011-04-16
 - *Chicago Area Undergraduate Research Symposium*. Chicago, IL. 2011-04-02

PUBLICATIONS

[🔗 Kamil's Bibliography at NCBI](#)

SELECTED PEER REVIEWED ARTICLES

7. [Single-cell transcriptomic analyses reveal distinct immune cell contributions to epithelial barrier dysfunction in checkpoint inhibitor colitis](#)
 Molly Fisher Thomas*, **Kamil Slowikowski***, Kasidet Manakongtreecheep, Pritha Sen, Jessica Tantivit, Mazen Nasrallah, Neal P. Smith, Swetha Ramesh, Leyre Zubiri, Alice Tirard, Benjamin Y. Arnold, Linda T. Nieman, Jonathan H. Chen, Thomas Eisenhaure, Karin Pelka, Katherine H. Xu, Vjola Jorgji, Christopher J. Pinto, Tatyana Sharova, Rachel Glasser, Elaina PuiYee Chan, Ryan J. Sullivan, Hamed Khalili, Dejan Juric, Genevieve M. Boland, Michael Dougan, Nir Hacohen, Kerry L. Reynolds, Bo Li, Alexandra-Chloé Villani
Nature Medicine, 2024. [🔗 View the data](#)
6. [Single-cell transcriptomics in cancer: computational challenges and opportunities](#)
 Jean Fan, **Kamil Slowikowski**, Fan Zhang
Experimental & Molecular Medicine, 2020.
5. [CUX1 and Ix̄B̄ζ mediate the synergistic inflammatory response to TNF and IL-17A in stromal fibroblasts](#)
Kamil Slowikowski*, Hung N. Nguyen*, Erika H. Noss, Daimon P. Simmons, Fumitaka Mizoguchi, Gerald F.M. Watts, Michael F. Gurish, Michael B. Brenner, Soumya Raychaudhuri
Proceedings of the National Academy of Sciences, 2020. [🔗 View the data](#)

4. [Defining inflammatory cell states in rheumatoid arthritis joint synovial tissues by integrating single-cell transcriptomics and mass cytometry](#)
Fan Zhang*, Kevin Wei*, **Kamil Slowikowski***, Chamith Y. Fonseka*, Deepak A. Rao*, Stephen Kelly, Susan M. Goodman, Darren Tabechian, Laura B. Hughes, Karen Salomon-Escoto, Gerald F. M. Watts, William Apruzzese, David J. Lieb, David L. Boyle, Arthur M. Mandelin II, Accelerating Medicines Partnership: RA Phase 1, AMP RA/SLE, Brendan F. Boyce, Edward DiCarlo, Ellen M. Gravalles, Peter K. Gregersen, Larry Moreland, Gary S. Firestein, Nir Hacohen, Chad Nusbaum, James A. Lederer, Harris Perlman, Costantino Pitzalis, Andrew Filer, V. Michael Holers, Vivian P. Bykerk, Laura T. Donlin, Jennifer H. Anolik, Michael B. Brenner, Soumya Raychaudhuri
Nature Immunology, 2019. [View the data](#)
3. [Functionally distinct disease-associated fibroblast subsets in rheumatoid arthritis](#)
Fumitaka Mizoguchi*, **Kamil Slowikowski***, Kevin Wei, Jennifer L. Marshall, Deepak A. Rao, Sook Kyung Chang, Hung N. Nguyen, Erika H. Noss, Jason D. Turner, Brandon E. Earp, Philip E. Blazar, John Wright, Barry P. Simmons, Laura T. Donlin, George D. Kalliolias, Susan M. Goodman, Vivian P. Bykerk, Lionel B. Ivashkiv, James A. Lederer, Nir Hacohen, Peter A. Nigrovic, Andrew Filer, Christopher D. Buckley, Soumya Raychaudhuri, Michael B. Brenner
Nature Communications, 2018.
2. [Functional genomics of stromal cells in chronic inflammatory diseases](#)
Kamil Slowikowski, Kevin Wei, Michael B. Brenner, Soumya Raychaudhuri
Current Opinion in Rheumatology, 2018.
1. [SNPSEA: an algorithm to identify cell types, tissues and pathways affected by risk loci](#)
Kamil Slowikowski, Xinli Hu, Soumya Raychaudhuri
Bioinformatics, 2014.

PEER REVIEWED ARTICLES

27. [Reproducible single-cell annotation of programs underlying T cell subsets, activation states and functions](#)
Dylan Kotliar, Michelle Curtis, Ryan Agnew, Kathryn Weinand, Aparna Nathan, Yuriy Baglaenko, **Kamil Slowikowski**, Yu Zhao, Pardis C. Sabeti, Deepak A. Rao, Soumya Raychaudhuri
Nature Methods, 2025. [Try the app](#)
26. [Tumor location as a risk factor for severe immune-related adverse events](#)
Steven M Blum, Ben Ouyang, Leyre Zubiri, Daniel Leonard, **Kamil Slowikowski**, Mike Wang, Kelley A Grealish, Nora K Hathaway, Gabriel Molina, Nishi Shah, Donald P Lawrence, Michael Dougan, Alexandra-Chloe Villani, Mari Mino Kendusen, Kerry L Reynolds, Ryan J Sullivan
Journal for ImmunoTherapy of Cancer, 2025.
25. [Immune responses in checkpoint myocarditis across heart, blood and tumour](#)
Steven M. Blum, Daniel A. Zlotoff, Neal P. Smith, Isabela J. Kernin, Swetha Ramesh, Leyre Zubiri, Joshua Caplin, Nandini Samanta, Sidney Martin, Mike Wang, Alice Tirard, Yuhui Song, Katherine H. Xu, Jaimie Barth, Pritha Sen, **Kamil Slowikowski**, Jessica Tantivit, Kasidet Manakongtreecheep, Benjamin Y. Arnold, Mazen Nasrallah, Christopher J. Pinto, Daniel McLoughlin, Monica Jackson, PuiYee Chan, Alexandra-Chloé Villani
Nature, 2024. [View the data](#)
24. [SARS-CoV-2 infection elucidates features of pregnancy-specific immunity](#)
Dong Sun Oh, Eunha Kim, Rachely Normand, Guangqing Lu, Lydia L. Shook, Amanda Lyall, Olyvia Jasset, Stepan Demidkin, Emily Gilbert, Joon Kim, Babatunde Akinwunmi, Jessica Tantivit, Alice Tirard, Benjamin Y. Arnold, **Kamil Slowikowski**, Marcia B. Goldberg, Michael R. Filbin, Nir Hacohen, Long H. Nguyen, Andrew T. Chan, Xu G. Yu, Jonathan Z. Li, Lael Yonker, Alessio Fasano, Roy H. Perlis, Ofer Pasternak, Kathryn J. Gray, Gloria B. Choi, David A. Drew, Pritha Sen, Alexandra-Chloé Villani, Andrea G. Edlow, Jun R. Huh
Cell Reports, 2024.

23. [Deconstruction of rheumatoid arthritis synovium defines inflammatory subtypes](#)
Fan Zhang, Anna Helena Jonsson, Aparna Nathan, Nghia Millard, Michelle Curtis, Qian Xiao, Maria Gutierrez-Arcelus, William Apruzzese, Gerald F. M. Watts, Dana Weisenfeld, Saba Nayar, Javier Rangel-Moreno, Nida Meednu, Kathryn E. Marks, Ian Mantel, Joyce B. Kang, Laurie Rumker, Joseph Mears, **Kamil Slowikowski**, Kathryn Weinand, Dana E. Orange, Laura Geraldino-Pardilla, Kevin D. Deane, Darren Tabechian, Arnoldas Ceponis, Gary S. Firestein, Mark Maybury, Ilfita Sahbudin, Ami Ben-Artzi, Arthur M. Mandelin, Alessandra Nerviani, Myles J. Lewis, Felice Rivellese, Costantino Pitzalis, Laura B. Hughes, Diane Horowitz, Edward DiCarlo, Ellen M. Gravalles, Brendan F. Boyce, Accelerating Medicines Partnership: RA/SLE Network, Jennifer Albrecht, Jennifer L. Barnas, Joan M. Bathon, David L. Boyle, S. Louis Bridges, Debbie Campbell, Hayley L. Carr, Adam Chicoine, Andrew Cordle, Patrick Dunn, Lindsay Forbess, Peter K. Gregersen, Joel M. Guthridge, Lionel B. Ivashkiv, Kazuyoshi Ishigaki, Judith A. James, Gregory Keras, Ilya Korsunsky, Amit Lakhanpal, James A. Lederer, Zhihan J. Li, Yuhong Li, Andrew McDavid, Mandy J. McGeachy, Karim Raza, Yakir Reshef, Christopher Ritchlin, William H. Robinson, Saori Sakaue, Jennifer A. Seifert, Anvita Singaraju, Melanie H. Smith, Dagmar Scheel-Toellner, Paul J. Utz, Michael H. Weisman, Aaron Wyse, Zhu Zhu, Larry W. Moreland, Susan M. Goodman, Harris Perlman, V. Michael Holers, Katherine P. Liao, Andrew Filer, Vivian P. Bykerk, Kevin Wei, Deepak A. Rao, Laura T. Donlin, Jennifer H. Anolik, Michael B. Brenner, Soumya Raychaudhuri
Nature, 2023. [View the data](#)
22. [A human model of asthma exacerbation reveals transcriptional programs and cell circuits specific to allergic asthma](#)
Jehan Alladina, Neal P. Smith, Tristan Kooistra, **Kamil Slowikowski**, Isabela J. Kernin, Jacques Deguine, Henry L. Keen, Kasidet Manakongtreecheep, Jessica Tantivit, Rod A. Rahimi, Susan L. Sheng, Nhan D. Nguyen, Alexis M. Haring, Francesca L. Giacona, Lida P. Hariri, Ramnik J. Xavier, Andrew D. Luster, Alexandra-Chloé Villani, Josalyn L. Cho, Benjamin D. Medoff
Science Immunology, 2023. [View the data](#)
21. [Single-cell meta-analysis of SARS-CoV-2 entry genes across tissues and demographics](#)
Christoph Muus, Malte D. Luecken, Gökçen Eraslan, Lisa Sikkema, Avinash Waghay, Graham Heimberg, Yoshihiko Kobayashi, Eeshit Dhaval Vaishnav, Ayshwarya Subramanian, Christopher Smillie, Karthik A. Jagadeesh, Elizabeth Thu Duong, Evgenij Fiskin, Elena Torlai Triglia, Meshal Ansari, Peiwen Cai, Brian Lin, Justin Buchanan, Sijia Chen, Jian Shu, Adam L. Haber, Hattie Chung, Daniel T. Montoro, Taylor Adams, Hananeh Aliee, Samuel J. Allon, Zaneta Andrusivova, Ilias Angelidis, Orr Ashenberg, Kevin Bassler, Christophe Bécavin, Inbal Benhar, Joseph Bergensträhle, Ludvig Bergensträhle, Liam Bolt, Emelie Braun, Linh T. Bui, Steven Callori, Mark Chaffin, Evgeny Chichelnitskiy, Joshua Chiou, Thomas M. Conlon, Michael S. Cuoco, Anna S. E. Cuomo, Marie Deprez, Grant Duclos, Denise Fine, David S. Fischer, Shila Ghazanfar, Astrid Gillich, Bruno Giotti, Joshua Gould, Minzhe Guo, Austin J. Gutierrez, Arun C. Habermann, Tyler Harvey, Peng He, Xiaomeng Hou, Lijuan Hu, Yan Hu, Alok Jaiswal, Lu Ji, Peiyong Jiang, Theodoros S. Kapellos, Christin S. Kuo, Ludvig Larsson, Michael A. Leney-Greene, Kyungtae Lim, Monika Litviňuková, Leif S. Ludwig, Soeren Lukassen, Wendy Luo, Henrike Maatz, Elo Madisson, Lira Mamanova, Kasidet Manakongtreecheep, Sylvie Leroy, Christoph H. Mayr, Ian M. Mbano, Alexi M. McAdams, Ahmad N. Nabhan, Sarah K. Nyquist, Lolita Penland, Olivier B. Poirion, Sergio Poli, CanCan Qi, Rachel Queen, Daniel Reichart, Ivan Rosas, Jonas C. Schupp, Conor V. Shea, Xingyi Shi, Rahul Sinha, Rene V. Sit, **Kamil Slowikowski**, Michal Slyper, Neal P. Smith, Alex Sountoulidis, Maximilian Strunz, Travis B. Sullivan, Dawei Sun, Carlos Talavera-López, Peng Tan, Jessica Tantivit, Kyle J. Travaglini, Nathan R. Tucker, Katherine A. Vernon, Marc H. Wadsworth, Julia Waldman, Xiuting Wang, Ke Xu, Wenjun Yan, William Zhao, Carly G. K. Ziegler, The NHLBI LungMap Consortium, Gail H. Deutsch, Jennifer Dutra, Kyle J. Gaulton, Jeanne Holden-Wiltse, Heidie L. Huyck, Thomas J. Mariani, Ravi S. Misra, Cory Poole, Sebastian Preissl, Gloria S. Pryhuber, Lisa Rogers, Xin Sun, Allen Wang, Jeffrey A. Whitsett, Yan Xu, The Human Cell Atlas Lung Biological Network, Jehan Alladina, Nicholas E. Banovich, Pascal Barbry, Jennifer E. Beane, Roby P. Bhattacharyya, Katharine E. Black, Alvis Brazma, Joshua D. Campbell, Josalyn L. Cho, Joseph Collin, Christian Conrad, Kitty de Jong, Tushar Desai, Diane Z. Ding, Oliver Eickelberg, Roland Eils, Patrick T. Ellinor, Alen Faiz, Christine S. Falk, Michael Farzan, Andrew Gellman, Gad Getz, Ian A. Glass, Anna Greka, Muzlifah Haniffa, Lida P. Hariri, Mark W. Hennon, Peter Horvath, Norbert Hübner, Deborah T. Hung, Heidie L. Huyck, William J. Janssen, Dejan Juric, Naftali Kaminski, Melanie Koenigshoff, Gerard H. Koppelman, Mark A. Krasnow, Jonathan A. Kropski, Malte Kuhnemund, Robert Lafyatis, Majlinda Lako, Eric S. Lander, Haeock Lee, Marc E. Lenburg, Charles-Hugo Marquette, Ross J. Metzger, Sten Linnarsson, Gang Liu, Yuk Ming Dennis Lo, Joakim Lundberg, John C. Marioni, Sarah A. Mazzilli, Benjamin D. Medoff, Kerstin B. Meyer, Zhichao Miao, Alexander V. Misharin, Martijn C. Nawijn, Marko Z. Nikolić, Michela Nosedà, Jose Ordovas

- Montanes, Gavin Y. Oudit, Dana Pe'er, Joseph E. Powell, Stephen R. Quake, Jayaraj Rajagopal, Purushothama Rao Tata, Emma L. Rawlins, Aviv Regev, Mary E. Reid, Paul A. Reyfman, Kimberly M. Rieger-Christ, Mauricio Rojas, Orit Rozenblatt-Rosen, Kourosh Saeb-Parsy, Christos Samakovlis, Joshua R. Sanes, Herbert B. Schiller, Joachim L. Schultze, Roland F. Schwarz, Ayellet V. Segre, Max A. Seibold, Christine E. Seidman, Jon G. Seidman, Alex K. Shalek, Douglas P. Shepherd, Rahul Sinha, Jason R. Spence, Avrum Spira, Xin Sun, Erik Sundström, Sarah A. Teichmann, Fabian J. Theis, Alexander M. Tsankov, Ludovic Vallier, Maarten van den Berge, Tave A. Van Zyl, Alexandra-Chloé Villani, Astrid Weins, Ramnik J. Xavier, Ali Önder Yildirim, Laure-Emmanuelle Zaragosi, Darin Zerti, Hongbo Zhang, Kun Zhang, Xiaohui Zhang
Nature Medicine, 2021.
20. [Synoviocyte-targeted therapy synergizes with TNF inhibition in arthritis reversal](#)
Mattias N. D. Svensson, Martina Zoccheddu, Shen Yang¹, Gyrid Nygaard, Christian Secchi, Karen M. Doody, **Kamil Slowikowski**, Fumitaka Mizoguchi, Frances Humby, Rebecca Hands, Eugenio Santelli, Cristiano Sacchetti, Kuninobu Wakabayashi, Dennis J. Wu, Christopher Barback, Rizi Ai, Wei Wang, Gary P. Sims, Piotr Mydel, Tsuyoshi Kasama, David L. Boyle, Francesco Galimi, David Vera, Michel L. Tremblay, Soumya Raychaudhuri, Michael B. Brenner, Gary S. Firestein, Costantino Pitzalis, Anna-Karin H. Ekwall, Stephanie M. Stanford and Nunzio Bottini
Science Advances, 2020.
 19. [Using genetics to prioritize diagnoses for rheumatology outpatients with inflammatory arthritis](#)
Rachel Knevel, Saskia le Cessie, Chikashi C. Terao, **Kamil Slowikowski**, Jing Cui, Tom W.J. Huizinga, Karen H. Costenbader, Katherine P. Liao, Elizabeth W. Karlson, Soumya Raychaudhuri
Science Translational Medicine, 2020.
 18. [A positively selected FBN1 missense variant reduces height in Peruvian individuals](#)
Samira Asgari, Yang Luo, Ali Akbari, Gillian M. Belbin, Xinyi Li, Daniel N. Harris, Martin Selig, Eric Bartell, Roger Calderon, **Kamil Slowikowski**, Carmen Contreras, Rosa Yataco, Jerome T. Galea, Judith Jimenez, Julia M. Coit, Chandel Farroñay, Rosalynn M. Nazarian, Timothy D. O'Connor, Harry C. Dietz, Joel N. Hirschhorn, Heinner Guio, Leonid Lecca, Eimear E. Kenny, Esther E. Freeman, Megan B. Murray & Soumya Raychaudhuri
Nature, 2020.
 17. [Notch signalling drives synovial fibroblast identity and arthritis pathology](#)
Kevin Wei, Ilya Korsunsky, Jennifer L. Marshall, Anqi Gao, Gerald F. M. Watts, Triin Major, Adam P. Croft, Jordan Watts, Philip E. Blazar, Jeffrey K. Lange, Thomas S. Thornhill, Andrew Filer, Karim Raza, Laura T. Donlin, Accelerating Medicines Partnership Rheumatoid Arthritis and Systemic Lupus Erythematosus (AMP RA/SLE) Consortium, Jennifer Albrecht, Jennifer H. Anolik, William Apruzzese, Brendan F. Boyce, David L. Boyle, S. Louis Bridges, Jane H. Buckner, Vivian P. Bykerk, Edward DiCarlo, James Dolan, Thomas M. Eisenhaure, Gary S. Firestein, Chamith Y. Fonseka, Susan M. Goodman, Ellen M. Gravalles, Peter K. Gregersen, Joel M. Guthridge, Maria Gutierrez-Arcelus, Nir Hacohen, V. Michael Holers, Laura B. Hughes, Lionel B. Ivashkiv, Eddie A. James, Judith A. James, A. Helena Jonsson, Josh Keegan, Stephen Kelly, Yvonne C. Lee, James A. Lederer, David J. Lieb, Arthur M. Mandelin, Mandy J. McGeachy, Michael A. McNamara, Joseph R. Mears, Nida Meednu, Fumitaka Mizoguchi, Larry Moreland, Jennifer P. Nguyen, Chad Nusbaum, Akiko Noma, Dana E. Orange, Harris Perlman, Costantino Pitzalis, Javier Rangel-Moreno, Deepak A. Rao, Mina Rohani-Pichavant, Christopher Ritchlin, William H. Robinson, Karen Salomon-Escoto, Anupamaa Seshadri, Jennifer Seifert, Kamil Slowikowski, Danielle Sutherby, Darren Tabechian, Jason D. Turner, Paul J. Utz, Fan Zhang, Christian W. Siebel, Christopher D. Buckley, Soumya Raychaudhuri, Michael B. Brenner
Nature, 2020.
 16. [Fast, sensitive and accurate integration of single-cell data with Harmony](#)
Ilya Korsunsky, Nghia Millard, Jean Fan, **Kamil Slowikowski**, Fan Zhang, Kevin Wei, Yuriy Baglaenko, Michael Brenner, Po-ru Loh, Soumya Raychaudhuri
Nature Methods, 2019.  [Learn about Harmony](#)
 15. [Tubular Cell and Keratinocyte Single-cell Transcriptomics Applied to Lupus Nephritis Reveal Type I IFN and Fibrosis Relevant Pathways](#)
Evan Der, Hemant Suryawanshi, Pavel Morozov, Manjunath Kustagi, Beatrice Goilav, Saritha Ranabathou, Peter Izmirly,

Michael Belmont, Robert Clancy, Mordecai Koenigsberg, Michele Mokrzycki, Helen Rominieki, Jay Graham, Juan Rocca, Nicole Bornkamp, Nicole Jordan, Emma Schulte, Ming Wu, James Pullman, **Kamil Slowikowski**, Soumya Raychaudhuri, Joel Guthridge, Judith James, Jill Buyon, Thomas Tuschl
Nature Immunology, 2019.

14. [The immune cell landscape in kidneys of patients with lupus nephritis](#)
 Arnon Arazi, Deepak A. Rao, Celine C. Berthier, Anne Davidson, Yanyan Liu, Paul J. Hoover, Adam Chicoine, Thomas M. Eisenhaure, A. Helena Jonsson, Shuqiang Li, David J. Lieb, Fan Zhang, **Kamil Slowikowski**, Edward P. Browne, Akiko Noma, Danielle Sutherby, Scott Steelman, Dawn E. Smilek, Patti Tosta, William Apruzzese, Elena Massarotti, Maria Dall'Era, Meyeon Park, Diane L. Kamen, Richard A. Furie, Fernanda Payan-Schober, William F. Pendergraft III, Elizabeth A. McInnis, Jill P. Buyon, Michelle A. Petri, Chaim Putterman, Kenneth C. Kalunian, E. Steve Woodle, James A. Lederer, David A. Hildeman, Chad Nusbaum, Soumya Raychaudhuri, Matthias Kretzler, Jennifer H. Anolik, Michael B. Brenner, David Wofsy, Nir Hacohen, Betty Diamond & the Accelerating Medicines Partnership in SLE network
Nature Immunology, 2019. [View the data](#)
13. [Lymphocyte innateness defined by transcriptional states reflects a balance between proliferation and effector functions](#)
 Maria Gutierrez-Arcelus, Nikola Teslovich, Alex R. Mola, Rafael B. Polidoro, Aparna Nathan, Hyun Kim, Susan Hannes, **Kamil Slowikowski**, Gerald F. M. Watts, Ilya Korsunsky, Michael B. Brenner, Soumya Raychaudhuri, Patrick J. Brennan
Nature Communications, 2019. [View the data](#)
12. [Discovering in vivo cytokine-eQTL interactions from a lupus clinical trial](#)
 Emma E. Davenport, Tiffany Amariuta, Maria Gutierrez-Arcelus, **Kamil Slowikowski**, Harm-Jan Westra, Yang Luo, Ciyue Shen, Deepak A. Rao, Ying Zhang, Stephen Pearson, David von Schack, Jean S. Beebe, Nan Bing, Sally John, Michael S. Vincent, Baohong Zhang and Soumya Raychaudhuri
Genome Biology, 2018.
11. [Mixed-effects association of single cells identifies an expanded effector CD4+ T cell subset in rheumatoid arthritis](#)
 Chamith Y. Fonseka*, Deepak A. Rao*, Nikola C. Teslovich, Ilya Korsunsky, Susan K. Hannes, **Kamil Slowikowski**, Michael F. Gurish, Laura T. Donlin, James A. Lederer, Michael E. Weinblatt, Elena M. Massarotti, Jonathan S. Coblyn, Simon M. Helfgott, Derrick J. Todd, Vivian P. Bykerk, Elizabeth W. Karlson, Joerg Ermann, Yvonne C. Lee, Michael B. Brenner, and Soumya Raychaudhuri
Science Translational Medicine, 2018.
10. [Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue](#)
 Laura T. Donlin*, Deepak A. Rao*, Kevin Wei, **Kamil Slowikowski**, Mandy J. McGeachy, Jason D. Turner, Nida Meednu, Fumitaka Mizoguchi, Maria Gutierrez-Arcelus, David J. Lieb, Joshua Keegan, Kaylin Muskat, Joshua Hillman, Cristina Roza, Edd Ricker, Thomas M. Eisenhaure, Shuqiang Li, Edward P. Browne, Adam Chicoine, Danielle Sutherby, Akiko Noma, Accelerating Medicines Partnership RA/SLE Network, Chad Nusbaum, Stephen Kelly, Alessandra B. Pernis, Lionel B. Ivashkiv, Susan M. Goodman, William H. Robinson, Paul J. Utz, James A. Lederer, Ellen M. Gravallese, Brendan F. Boyce, Nir Hacohen, Costantino Pitzalis, Peter K. Gregersen, Gary S. Firestein, Soumya Raychaudhuri, Larry W. Moreland, V. Michael Holers, Vivian P. Bykerk, Andrew Filer, David L. Boyle, Michael B. Brenner and Jennifer H. Anolik
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