

Curriculum Vitae

Autumn Gabrielle York

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POSITIONS:

1. Howard Hughes Medical Institute Hanna H. Gray Fellow. Laboratory of Richard A. Flavell. Department of Immunobiology. Yale University; September 2017- present
2. Post Doctoral Associate. Laboratory of Richard A. Flavell. Department of Immunobiology. Yale University; January 2017-September 2017.
3. Post Doctoral Associate. Laboratory of Steven J. Bensinger. Department of Microbiology, Immunology, and Molecular Genetics. University of California, Los Angeles. March 2016-Dec. 2016

EDUCATION:

Ph.D. in Molecular and Medical Pharmacology. Laboratory of Steven J. Bensinger. David Geffen School of Medicine. University of California, Los Angeles; March 2016

B.A. in Biochemistry (*Magna Cum Laude*) and B.A. in Molecular, Cellular & Developmental Biology, (with a Chemistry Minor), University of Colorado, Boulder; May 2008

AWARDS AND HONORS:

1. 2020 Sidney & Joan Pestka Post Graduate Award. International Cytokine and Interferon Society. Oral Presentation at Cytokine 2020 meeting titled "*Towards Decoding the Immunologic Lipidome*". Virtual meeting. November 2020
2. Invited Speaker. Next Generation Symposium on Biomedicine. The Broad Institute of MIT and Harvard. Talk title: "*Towards Decoding the Immunologic Lipidome*". Boston, MA. September 2019
3. Invited Speaker. Kern Lipid Conference. Talk title: "*Synthesis of mono-unsaturated fatty acids negatively regulates inflammation*". Vail, Colorado. August 2018
4. Howard Hughes Medical Institute Hanna H. Gray Fellowship. 2017-2025.
5. Cancer Research Institute Irvington Postdoctoral Fellowship (awarded, but declined) 2017.
6. Abstract Scholarship/Abstract selected for short talk. Keystone Symposia. Integrating Metabolism and Immunity. Talk title: "*Synthesis of mono-unsaturated fatty acids negatively regulates inflammation*". Dublin, Ireland. June 2017
7. Trainee Abstract Award. American Association of Immunologists Annual Conference: IMMUNOLOGY 2016. Abstract selected for short talk. Talk Title: "*Rapid transcriptional reprogramming of the lipid biosynthesis genes in response to type I interferon*". Seattle, WA May 2016
8. Travel Award/Abstract selected for short talk. Deuel Conference on Lipids. Talk title: "*Identification of a cholesterol metabolic-type I interferon inflammatory circuit*". Napa, CA. March 2016
9. Outstanding Poster Award. UCLA Molecular and Medical Pharmacology Retreat. Huntington Beach, CA. October 2016
10. The American Association of Immunology Young Investigator Award at ImmunologyLA 2015. Los Angeles, CA. May 2015.
11. Trainee Poster Award. American Association of Immunologists Annual Conference: IMMUNOLOGY 2015. New Orleans, LA. May 2015
12. Trainee Abstract Award. American Association of Immunologists Annual Conference: IMMUNOLOGY 2014. Abstract selected for short talk. Section: Metabolism and Nutrient Sensing Pathways in Innate

- Immunity. Talk Title: “*Reprogramming lipid metabolism primes host antiviral immunity*”. May 2014. Pittsburgh, PA
13. Graduate Division Dissertation Year Fellowship. Department of Molecular and Medical Pharmacology. UCLA. January. 2014-2015
 14. California HIV/AIDS Research Program Pre-Doctoral Training Fellowship. March 2013-March 2015
 15. Best Student Talk at Department of Molecular and Medical Pharmacology Student Seminar Series. UCLA. 2012-2013.
 16. Abstract selected for short talk. American Society for Molecular Biology and Biochemistry, Section Title: Lipids and Infection. Talk Title “*Defining the Role of SREBPs in Hepatitis C Viral Infection*” April 2012; San Diego, CA
 17. Student Travel Award. Molecular and Medical Pharmacology. UCLA. April 2012
 18. *In Vivo* Cell and Molecular Imaging Center Career Development Training Award. UCLA Dec 2010
 19. *Magna Cum Laude* graduation honors. University of Colorado-Boulder, Department of Biochemistry, Thesis Title: *Structural and Functional Examination of Sp1/SREBP-Mediator Transcriptional Synergy*. May 2008
 20. Chris Severy Outstanding Undergraduate Research Award, University of Colorado-Boulder, Department of Chemistry & Biochemistry, 2008
 21. Outstanding Poster Award, University of Colorado-Boulder, Department of Chemistry & Biochemistry Undergraduate Research Symposium, 2007, 2008
 22. Biological Sciences Initiative Undergraduate Travel Award. University of Colorado 2007 & 2008
 23. Summer Undergraduate Research Fellowship. University of Colorado-Boulder 2007
 24. HHMI/UROP Bioscience Fellowship; University of Colorado. 2005-2006, 2006-2007, 2007-2008

PUBLICATIONS:

1. Piotr Bielecki, Samantha J. Riesenfeld, Jan-Christian Hütter, Elena Torlai Triglia, Monika S. Kowalczyk, Roberto R. Ricardo-Gonzalez, Maria C. Amezcua Vesely, Lina Kroehling, Michal Biton, Christoph Muus, Leif S. Ludwig, Elena Christian, Liming Tao, Amanda J. Kedaigle, Holly R. Steach, **Autumn G. York**, Mathias H. Skadow, Parastou Yaghoubi, Danielle Dionne, Abigail Jarret, Heather M. McGee, Caroline B. M. Porter, Paula Licon-Limon, Will Bailis, Ruaidhri P. Jackson, Nicola Gagliani¹, Richard M. Locksley, Aviv Regev, Richard A. Flavell. *Skin inflammation driven by differentiation of quiescent tissue resident innate lymphoid cells into a spectrum of pathogenic effectors*. Nature 2020. In Press
2. Wei-Yuan Hsieh*, Quan D. Zhou*, **Autumn G. York***, Kevin J. Williams, Philip O. Scumpia, Viet L. Bui, Eliza B. Kronenberger, Elvira Khialeeva, Amber T. Kaplan, Youngmin Son, Ajit S. Divakaruni, Jie Sun, Stephen T. Smale, Richard A. Flavell, Steven J. Bensinger. A roadmap for understanding how distinct pro-inflammatory signals reprogram the lipidome of macrophages. (***co-first author**) Cell Metabolism 2020 Jul 7;32(1):128-143.e5. doi: 10.1016/j.cmet.2020.05.003.
3. Quan D. Zhou, Xun Chi, Min Sub Lee, Wei Yuan Hsieh, Jonathan J. Mkrtychyan, An-Chieh Feng, **Autumn G York**, Viet L. Bui, Eliza B. Kronenberger, Alessandra Ferrari, Xu Xiao, Allison E. Daly, Robert Damoiseaux, Philip O. Scumpia, Stephen T. Smale, Kevin J. Williams, Peter Tontonoz, Steven J. Bensinger. *Interferon-mediated reprogramming of membrane cholesterol to evade bacterial toxins*. Nature Immunology. 2020 Jul;21(7):746-755. doi: 10.1038/s41590-020-0695-4
4. Angel G. Solis, Piotr Bielecki, Holly R. Steach, Lokesh Sharma, Christian C.D. Harman, Sanguk Yun, Noah W. Palm, Marcel R. de Zoete, James N. Warnock, S. D. Filip To, **Autumn G. York**, Mathias Mack, Martin A. Schwartz, Charles. S. Dela Cruz, Ruaidhrí Jackson, and Richard A. Flavell. *Mechanosensation of Cyclical Force by PIEZO1 is Essential for Innate Immunity*. Nature. 2019 Sep;573(7772):69-74
5. Ruaidhri Jackson, Lina Kroehling, Alexandra Khitun, Will Bailis, Abigail Jarret, **Autumn G. York**, Omair M. Khan, James R. Brewer, Mathias H. Skadow, Coco Druizer, Christain C.D. Harman, Lelina Chang, Piotr Bielecki, Angel G. Solis, Holly R. Steach, Sara Slavoff, Richard A. Flavell. *The translation of non-canonical open reading frames controls mucosal immunity*. Nature. 2018 Dec. 564(7736):434-438

6. **Autumn York**, Kevin J. Williams, Joseph P. Argus, Quan D. Zhou, Gurpreet Brar, Laurent Vergnes, Elizabeth E. Gray, Anjie Zhen, Nicholas C. Wu, Douglas H. Yamada, Cameron R. Cunningham, Elizabeth J. Tarling, Moses Q. Wilks, David Casero, David H. Gray, Amy K. Yu, Eric S. Wang, David G. Brooks, Ren Sun, Scott G. Kitchen, Ting-Ting Wu, Karen Reue, Daniel B. Stetson and Steven J. Bensinger (2015) *Limiting Cholesterol Biosynthetic Flux Spontaneously Engages Type I IFN Signaling*. *Cell*. December 17th. Vol. 163, Issue 7. p1716-1729
7. **Autumn York** and Steven Bensinger (2013) *Subverting sterols: rerouting an oxysterol-signaling pathway to promote tumor growth*. *Journal of Experimental Medicine*. August. Vol. 210 no. 9 p1653-1656
8. Ethan Ahler, William Juster Sullivan, Ashley Cass, Daniel Braas, **Autumn York**, Steven Bensinger, Thomas Graeber, and Heather Christofk (2013) *Doxycycline alters metabolism and proliferation of human cell lines*. *PLoS ONE* 8(5): e64561. doi:10.1371/journal.pone.0064561
9. Kevin Williams, Joseph Argus, Yue Zhu, Moses Wilks, Beth Marbois, **Autumn York**, Yoko Kidani, Alexandra Pourzia, David Akhavan, Dominique Lisiero, Evangelia Komisopoulou, Amy Henkin, Horacio Soto, Brian Chamberlain, Laurent Vergnes, Michael Jung, Jorge Torres, Linda Liau, Heather Christofk, Robert Prins, Paul Mischel, Karen Reue, Thomas Graeber, and Steven Bensinger (2013). *An essential requirement for the SCAP/SREBP signaling axis to protect cancer cells from lipotoxicity*. Accepted. *Cancer Research*. May 1;73(9):2850-62
10. Yongxin Yu, Chunying Song, Oiongyi Zhang, Peter DiMaggio, Benjamin Garcia, **Autumn York**, Michael Carey, Michael Grunstein (2012) *Histone H3 Lysine 56 Methylation Regulates DNA Replication through Its Interaction with PCNA*. *Molecular Cell*. April 13;46 (1):7-17
11. Krista Meyer, Aaron Donner, Matthew Knuesel, **Autumn York**, Joaquin Espinosa, Dylan Taatjes (2008) *Cooperative activity of cdk8 and GCN5L within Mediator directs tandem phosphoacetylation of histone H3*. *The EMBO Journal*. Vol 27 (10) p1449