#### CURRICULUM VITAE

## Morgan A. Sammons, PhD

Department of Biological Sciences University at Albany, State University of New York Life Sciences 2078 1400 Washington Ave Albany, NY 12222 masammons@albany.edu

#### **EDUCATION**

Doctor of Philosophy in Biology Vanderbilt University, Nashville, TN	December 2010
Bachelor of Science in Biology University of Toledo, Toledo, OH	May 2005
Bachelor of Arts in Chemistry University of Toledo, Toledo, OH	May 2005
EMPLOYMENT	
State University of New York at Albany	September 2022 - Present
Associate Professor, Department of Biological Sciences Associate Member, The RNA Institute	
State University of New York at Albany	September 2016 - August 2022
Assistant Professor, Department of Biological Sciences Associate Member, The RNA Institute	
University of Pennsylvania	September 2010 - August 2016

Postdoctoral Fellow, Department of Cell and Developmental Biology

Vanderbilt UniversitySeptember 2005 - August 2010Graduate Research Scientist, Department of Biological Sciences

#### PUBLICATIONS

- Wiechens E, Vigliotti F, Siniuk K, Schwarz R, Schwab K, Riege K, van Bömmel A, Görlich, Bens M, Sahm A, Groth M, Sammons MA, Loewer A, Hoffmann S, and Fischer M. (2024) Backwards ahead: Cooperating convergent promoters. In Press at *Nature Genetics*
- 2. Badu P, Baniulyte G, **Sammons MA**, and Pager CT (2024) Activation of ATF3 via the Integrated Stress Response Pathway Regulates Innate Immune Response to Restrict Zika Virus. In Press at *Journal of Virology*

- 3. Fischer M, and **Sammons MA** (2024) Determinants of p53 DNA binding, gene regulation, and cell fate decisions. Cell Death and Differentiation. DOI: 10.1038/s41418-024-01326-1
- 4. McCann A, Baniulyte G, Woodstock DL, and **Sammons MA** (2024) Context dependent activity of p63-bound gene regulatory elements. /textitbioRxiv. DOI: 10.1101/2024.05.09.593326
- Sarkar K, Kotb NM, Lemus A, Martin ET, McCarthy A, Camacho J, Iqbal A, Valm AM, Sammons MA, and Rangan P (2023) A feedback loop between heterochromatin and the nucleopore complex controls germ-cell-to-oocyte transition during *Drosophila* oogenesis. Developmental Cell. DOI: 10.1016/j.devcel.2023.08.014
- 6. Baniulyte, G, Durham SA, Merchant LE, and **Sammons MA** (2023) Shared Gene Targets of the ATF4 and p53 Transcriptional Networks. Molecular and Cellular Biology. 2023 Aug 2;1-24. DOI: 10.1080/10985549.2023.2229225.
- Reverdatto S, Prasad A, Belrose JL, Zhang X, Sammons MA, Gibbs KM, and Szaro BG (2021) Developmental and Injury-induced Changes in DNA Methylation in Regenerative versus Nonregenerative Regions of the Vertebrate Central Nervous System. BMC Genomics. 2022 Jan 04; 23(2) DOI: 10.1186/s12864-021-08247-0
- 8. Woodstock DL\*, **Sammons MA**, and Fischer M (2021) p63 and p53: collaborative partners or dueling rivals?. Frontiers in Cell and Developmental Biology. DOI: 10.3389/fcell.2021.701986
- 9. **Sammons MA**, Nguyen TT, McDade SS, and Fischer M. (2020) Tumor suppressor p53: From engaging DNA to target gene regulation. Nucleic Acids Research. DOI: 10.1093/nar/gkaa666
- Belrose JL, Prasad A, Sammons MA, Gibbs KM, and Szaro B. (2020) Comparative Gene Expression Profiling between Optic Nerve and Spinal Cord Injury in *Xenopus laevis* Reveals a Core Set of Genes Inherent in Successful Regeneration of Vertebrate Central Nervous System Axons. BMC Genomics. 2020 Aug 5;21(1):540. DOI: 10.1186/s12864-020-06954-8
- 11. Bonenfant G, Meng R, Shotwell C, Badu P, Payne A, Ciota A, **Sammons MA**, Berglund JA, and Pager CT. (2020) Asian Zika virus isolate significantly changes the transcriptional profile and alternative RNA splicing events in a neuroblastoma cell line. Viruses. 2020 May 5; 12(5):E510. DOI:10.3390/v12050510
- 12. Naik AS, Lin JM, Taroc EZM, Katreddi RR, Frias JA, **Sammons MA**, and Forni P. (2020) Smad4 signaling establishes the somatosensory map of basal vomeronasal sensory neurons. Development. 2020 147: dev184036 DOI: 10.1242/dev.184036
- Link AJ, Niu X, Weaver CM, Jennings JL, Duncan DT, McAfee KJ, Sammons M, Gerbasi VR, Farley AR, Fleischer TC, Browne CM, Samir P, Galassie A, and Boone B. (2020) Targeted identification of protein interactions in eukaryotic mRNA translation. Proteomics. 2020 Apr; 20(7)e1900177. DOI: 10.1022/pmic.201900177
- 14. Catizone AN\*, Karsli Uzunbas G\*, Celadova P, Kuang S\*, Bose D, and **Sammons MA**. (2020) Locally acting transcription factors are required for p53-dependent cis-regulatory element activity. Nucleic Acids Research. 2020 Mar 5 DOI: 10.1093/nar/gkaa147
- 15. Karsli Uzunbas G\*, Ahmed F\*, and **Sammons MA**. (2019) Control of p53-dependent transcription and enhancer activity by the p53 family member p63. Journal of Biological Chemistry. DOI: 10.1074/jbc.RA119.007965
- Lin-Shiao E, Lan Y, Welzenbach J, Alexander KA, Zhang Z, Knapp M, Mangold E, Sammons M, Ludwig KU and Berger SL (2019) p63 establishes epithelial enhancers de novo at critical craniofacial development genes. Science Advances. 2019 May 1; 5(5):eaaw0946. DOI: 10.1126/sciadv.aaw0946.

- 17. Catizone AN\*, Good CR, Alexander KA, Berger SL, and **Sammons MA** (2019). Comparison of genotoxic versus non-genotoxic stabilization of p53 provides insight into parallel stress-responsive transcriptional networks. Cell Cycle. Apr;18(8):809-823. DOI:10.1080/15384101.2019.1593643
- 18. Lin JM, Taroc EZM, Frias JA, Prasad A, Catizone AN\*, **Sammons MA**, and Forni PE. (2018) The transcription factor Tfap2e/AP-2 plays a pivotal role in maintaining the identity of basal vomeronasal sensory neurons. Developmental Biology. 2018 June 19. DOI: 0.1016/j.ydbio.2018.06.007
- Fraietta J, Nobles C, Sammons MA, Lundh S, Carty S, Reich T, Cogdill A, Wang Y, Gohil M, Kulikovskaya I, Nazimuddin F, Gupta M, Gee M, Liu X, Young R, Ambrose D, Jordan M, Marcucci K, Levine B, Garcia KC, Zhao Y, Kalos M, Porter D, Lacey S, Berger S, Bushman F, June C, Morrissette J, DeNizio J, Reddy S, Hwang Y, Everett J, Alexander K, Lin-Shiao E, Kohli R, Chen F, and Melenhorst J. (2018) Disruption of TET2 Promotes the Therapeutic Efficacy of CD19-targeted T-cells. Nature. 2018 May 30. DOI: 10.1038/s41586-018-0178-z
- Pauken KE, Sammons MA, Odorizzi PM, Manne SK, Godec J, Khan O, Drake AM, Chen Z, Sen D, Kurachi M, Barnitz RA, Bartman C, Bengsch B, Huang AC, Schenkel HM, Vahedi G, Haining WN, Berger SL, and Wherry EJ, (2016). Epigenetic stability of exhausted T cells limits the durability of reinvigoration by PD-1 blockade. Science. 354(6316): 1160-1165
- 21. Zhu, J, Dou, Z, **Sammons, MA**, Levine, AJ., and Berger SL. (2016) Lysine methylation represses p53 activity in teratocarcinoma cells. Proceedings of the National Academy of Sciences. 113(35):9822-7.
- 22. **Sammons, MA.**, Zhu, J, and Berger, SL. (2016). A chromatin-focused siRNA screen for regulators of p53-dependent transcription. G3 (Bethesda) 6(8), 2671-8.
- 23. Monteith, JA., Mellert, HS., **Sammons, MA**, Kuswanto, LA., Sykes, SM., Berger, SL., and McMahon, SB. (2016) A rare tumor-derived mutation in p53 provides pro-survival gain of function via induction of anti-apoptotic molecule TNFAIP8. Molecular Oncology. (8):1207-20.
- 24. Capell, B.C., Drake, A.M., Zhu, J., Shah, P.P., Dou, Z., Dorsey, J., Simola, D.F., Donahue, G., **Sammons, M.A,** Singh Rai, R., Natale, C., Ridky, T.W., Adam, P.D., and Berger, S.L. (2016). MLL1 is essential for the senescence-associated secretory phenotype. Genes and Development, 30: 321-336
- 25. **Sammons, M.A**., Zhu, J., Drake, A.M., and Berger, S.L. (2015). TP53 engagement with the genome occurs in distinct local chromatin environments via pioneer factor activity. Genome Research 25, 179-188.
- 26. Zhu J, **Sammons MA**, Donahue G, Dou Z, Vedadi M, Geglik M, Barsyte-Lovejoy D, Al-Awar R, Katona B, Shilatifard A, Huang J, Hua X, Arrowsmith C, and Berger SL (2015) Gain-of-function p53 mutants co-opt chromatin pathways to drive cancer growth. Nature, 525 (7568):206-11
- Dikovskaya, D, Cole J.J., Mason S.M., Nixon, C, Karim, S.A., McGarry, L, Clarke, W, Hewitt, R.N., Sammons, M.A, Zhu, J, Wu, H, Berger, S.L., Blyth, K, and Adams, P.D. (2015) Mitotic stress is an integral part of the oncogene-induced senescence program that promotes multinucleation and cell cycle arrest. Cell Reports. 12(9):1483-96
- Mushrush, D.J., Koteiche, H.A., Sammons, M.A., Link, A.J., McHaourab, H.S., and Lacy, D.B. (2011). Studies of the mechanistic details of the pH-dependent association of botulinum neuro-toxin with membranes. J Biol Chem 286, 27011-27018.
- 29. **Sammons, M.A.**, Samir, P., and Link, A.J. (2011). Saccharomyces cerevisiae Gis2 interacts with the translation machinery and is orthogonal to myotonic dystrophy type 2 protein ZNF9. Biochem Biophys Res Commun 406, 13-19.

- 30. **Sammons, M.A.**, Antons, A.K., Bendjennat, M., Udd, B., Krahe, R., and Link, A.J. (2010). ZNF9 activation of IRES-mediated translation of the human ODC mRNA is decreased in myotonic dystrophy type 2. PLoS One 5, e9301.
- 31. Elzie, C.A., Colby, J., **Sammons, MA.**, and Janetopoulos, C. (2009). Dynamic localization of G proteins in Dictyostelium discoideum. J Cell Sci 122, 2597-2603.
- 32. Sammons, M., Wan, S.S., Vogel, N.L., Mientjes, E.J., Grosveld, G., and Ashburner, B.P. (2006). Negative regulation of the RelA/p65 transactivation function by the product of the DEK protooncogene. J Biol Chem 281, 26802-26812.

\* denotes undergraduate, graduate, or postdoctoral trainees from the University at Albany

#### **GRANT FUNDING**

Active Awards	
National Institutes of Health, NIGMS, R35	2020-2025
Defining cis-regulatory networks controlling a core stress response	(PI: Morgan Sammons)
Total award: \$1,765,488	
Completed Awards	
National Institutes of Health, NIDCD, R01	2018-2023
Molecular mechanisms controlling differentiation and circuit formation of the	
vomeronasal sensory neurons	(Co-PI with Paolo Forni)
Total award: \$1,539,977	
National Institutes of Health, NIGMS, R15	2018-2022
Molecular mechanisms regulating the establishment of cis-regulatory elements b	y
<i>the transcription factor p63</i>	(PI: Morgan Sammons)
Total award: \$450,000	
National Institutes of Health, NICHD, R15	2018-2021
Role of Inductive Signals Released by Nasal Mesenchyme and Brain in Controlla	ing
Terminal Nerve Development and GNRH-1 Neuronal Migration	(Co-PI with Paolo Forni)
Total award: \$450,000	
New York State Spinal Cord Injury Research Board	2017
Institutional Support for Spinal Cord Injury	(Co-PI with Ben Szaro)
Total award: \$142,500	
American Cancer Society	2012-2014
Postdoctoral Fellowship,	(PI: Morgan Sammons)
CONFERENCE PRESENTATIONS	
19th International p53 Workshop	2024
International Centre for Genetic Engineering and Biotechnology/ICGEB	Trieste, Italy
Annual Meeting	2022
American Society for Biochemistry and Molecular Biology	Philadelphia, PA, USA
Evolution and Core Processes in Gene Expression	2022
ASBMB Symposium, Stowers Institute	Kansas City, MO, USA

2020

Rehovat, Israel

- 18th International p53 Workshop
- Weizmann Institute of Science

Northeast Regional Meeting (NESDB 2020)	2020
Society for Developmental Biology, Marine Biological Laboratory	Woods Hole, MA, USA
Systems Biology: Global Regulation of Gene Expression	2020
Cold Spring Harbor Laboratory Meetings	Cold Spring Harbor, NY, USA
International p53/p63/p73 Workshop	2019
Ruer Bokovi Institute	Dubrovnik, Croatia
Evolution and Core Processes in Gene Expression	2019
American Society for Biochemistry and Molecular Biology Sympo	sium East Lansing, MI, USA
Transcriptional Regulation by Chromatin and RNA Polymerase II	2018
American Society for Biochemistry and Molecular Biology Sympo	sium Snowbird, UT, USA
Epigenetics and Chromatin	2018
Cold Spring Harbor Laboratory Meetings	Cold Spring Harbor, NY, USA
Systems Biology: Global Regulation of Gene Expression	2018
Cold Spring Harbor Laboratory Meetings	Cold Spring Harbor, NY, USA
3rd Annual p53 Isoforms Conference	2017
University of Bergen	Bergen, Norway
Core Processes in Gene Expression	2017
ASBMB Special Symposium, Stowers Institute	Kansas City, MO, USA
Cancer Epigenetics	2017
Keystone Symposia	Seattle, WA, USA

## **INVITED TALKS**

Fritz Lipmann Institute for Aging	2023
Leibniz Institute, Jena, Germany	
Department of Biological, Geological, and Environmental Sciences	2022
Cleveland State University	
Department of Bioinformatics and Genomics	2021
University of North Carolina - Charlotte	
Department of Chemistry and Biochemistry	2021
San Diego State University	
RNA Collaborative Seminar Series	2020
Hosted by the RNA Center Consortium	
Department of Nanobioscience	2020
SUNY Polytechnic University	
Department of Biochemistry	2019
Albert Einstein College of Medicine	
Workshop for Interaction and Scientific Communication	2017
Life Sciences Initiative, State University of New York at Albany	
Cancer Research Center	2016
School of Public Health, State University of New York at Albany	

## Journal Referee

#### **PROFESSIONAL SERVICE**

BMC Molecular and Cell Biology, Briefings in Functional Genomics, Cancer Cell, Cell Cycle, Cell Death & Disease, Cell Reports, eLife, Genome Research, iScience, Journal of Biological Chemistry, Journal of Molecular Biology, Molecular Oncology, Nature Communications, Nucleic Acids Research, Proceedings of the National Academies of Science, Science, Wiley WIRES Systems Biology

## and Medicine

## Proposal Referee

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SUNY Research Seed Grant Review, SUNY Research Foundation	2024
Oak Ridge Associated Universities/Nazarbayev University, Grant Review	2023
Seed Grant Review Panel, Health Disparities, SUNY Downstate	2023
Genetics of Health and Disease, Study Section, NIH Center for Scientific Review	2023
Oak Ridge Associated Universities/Nazarbayev University, Grant Review	2022
Seed Grant Review Panel, SUNY Downstate	2022
Israel Science Foundation (ISF), Grant Review	2022
Radiation Oncology-Biology Integration Network U54, NIH Center for Scientific Review	2022
Molecular Genetics A Study Section, NIH Center for Scientific Review	2021
Israel Science Foundation (ISF), Grant Review	2021
Cancer Etiology Study Section, NIH Center for Scientific Review	2020
National Science Centre, Poland, Grant Review	2020
National Science Foundation (NSF), Grant Review	2020

## DEPARTMENTAL AND UNIVERSITY SERVICE

## **Department Service**

Train of Consider Ludge, NCE DELL'ENIA Institute DNIA Day	2024
Trainee Session Judge, NSF REU RNA Institute RNA Day	2024 2024
Trainee Session Judge, RNA Institute Retreat	
Strategic Planning Committee, Biological Sciences, Chair	2023-2024
Trainee Session Judge, RNA Institute Symposium	2023
Departmental Honors Program Director, Biological Sciences	2023-Present
Director of Undergraduate Programs, Biological Sciences, Chair	2023-Present
Tenure-Track Faculty Search Committee, Biological Sciences, Chair	2022-2023
Undergraduate Curriculum Committee, Biological Sciences, Chair	2022-Present
Trainee Session Judge, RNA Institute Symposium	2022
Graduate Admissions Committee, Biological Sciences	2021-2022
Graduate Recruitment Committee, Biological Sciences	2021-2022
Personnel and Appointments Committee, Biological Sciences	2020-2021
Bioinformatics Faculty Search Committee	2019-2020
Graduate Programs Assessment Committee, Biological Sciences	2019-2022
Personnel and Appointments Committee, Biological Sciences	2018-2019
MCDN PhD Program Curriculum Committee, Biological Sciences	2018-2019
Director of Biology Department Seminar Series	2017-2023
Graduate Admissions Committee, Biological Sciences	2017-18
Stem Cells and Regeneration Faculty Search Committee	2017-18
Graduate Admissions Committee, Biological Sciences	2016-17
Katherine Vario Scholarship Committee	2016
Shore Scholarship Committee	2017-2018
World of Biology - Living-Learning Community Faculty Advisor	2017-2020
College and University Service	
Nominating Committee, College of Arts and Sciences Faculty Council	2023-2024
CAS New Student Welcome Day Department Representative	2023
Speaker and BIO Department Representative, Accepted Student Open House	2023

College of Arts and Sciences Faculty Council, Chair	2022-2023
Honors College Curriculum Committee	2022- Present
College of Arts and Sciences Faculty Council, Vice Chair	2021-2022
Vice Chair, College of Arts and Sciences Faculty Council	2021-2022
NSF Project SAGES Internal Grant Reviewer	2021-2022
College of Arts and Sciences FRAP-B Program Reviewer	2021
College of Arts and Sciences Faculty Council, Department Representative	2020-2022
Workshop for Interaction and Scientific Collaboration (WISC) Organizer	2017
Bioinformatics/Center for Functional Genomics User Workshop	2017

## TEACHING

At the University at Albany, SUNY	
ABIO 329, Genetics of Human Disease, xxx students	Fall 2024
ABIO 524, Advanced Molecular Biology, 21 students	Spring 2024
ABIO 524, Advanced Molecular Biology, 18 students	Spring 2023
ABIO 329, Genetics of Human Disease, 137 students	Fall 2022
ABIO 524, Advanced Molecular Biology, 21 students	Spring 2022
ABIO 329, Genetics of Human Disease, 116 students	Fall 2021
ABIO 524, Advanced Molecular Biology, 35 students	Spring 2021
ABIO 329, Genetics of Human Disease, 142 students	Fall 2020
ABIO 524, Advanced Molecular Biology, 22 students	Spring 2020
ABIO 329, Genetics of Human Disease, 136 students	Fall 2019
UFSP 110, Living Learning Community, 28 students	Fall 2019
ABIO 681, Seminar in MCDN, 14 students	Spring 2019
ABIO 524, Advanced Molecular Biology, 13 students	Spring 2019
ABIO 329, Genetics of Human Disease, 96 students	Fall 2018
UFSP 110, Living Learning Community, 26 students	Fall 2018
ABIO 329, Genetics of Human Disease, 74 students	Fall 2017
UFSP 110, Living Learning Community, 25 students	Fall 2017
At the University of Pennsylvania	

# BIOL 493, Epigenetics of Human Disease, 14 studentsSpring 2015BIOL 493, Epigenetics of Human Disease, 11 studentsSpring 2014

## MENTORING

<b>Doctoral</b> Abby McCann Dana Woodstock Serene Durham, PhD Allison Catizone, PhD	2021 - Present 2019 - Present 2018 - 2022 2017 - 2020
<b>Masters in Biological Sciences</b> Elianna Cruz Sakthi Muthukrishnan Jared Rogalski Devere Knight	2024 - Present 2024 - Present 2024 - Present 2022 - 2023

Jhosped Dufflart, MS	2021 - 2022
Masters in Forensic Sciences Andrew Ropheal, MS	2022 - 2023
-	
<b>Postdoctoral Trainees</b> Gabriele Baniulyte, PhD	2021 - Present
Gizem Karsli Uzunbas, PhD	2017 - 2019
Professional Employees	
Faraz Ahmed, Bioinformatics Specialist	2017-2019
Aparna Prasad, Research Scientist	2020-2021
Doctoral Dissertation Committee Service	2014 2020
Alicia McCarthy, PhD	2016 - 2020
Jamie Belrose, PhD	2017 - 2020
Nicholas Moskwa, PhD	2018 - 2022
Amber Altrieth, PhD	2019 - 2023 2019 - 2022
Anwesha Sarkar, PhD Ali Ropri, PhD	2019 - 2022 2020 - 2022
Pheonah Badu	2020 - 2022 2020 - 2024
Raghu Katreddi, PhD	2020 - 2023
Jesus Frias	2020 - 2024
Nick Mathias	2022 - Present
Joey Tavarez	2023 - Present
Dylan Ehrbar	2023 - Present
Andrew Munoz Gamba	2024 - Present
Noah LaFever	2024 - Present
Masters Thesis Committee Service	
Connor Duffy, MS	2017 - 2019
Hannah Shippas, MS	2021 - 2022
Kavya Chegireddy, MS	2021 - 2022
Pearl De Veer, MS	2021-2022
Quetsia Jean-Baptiste, MS	2023-2024
PhD Rotation Students	0000 0004
Nick Lane Kata Havas	2023-2024
Kate Hayes	2023-2024
Noah LaFever Kathrun Binar	2022-2023 2022-2023
Kathryn Piper Esperanza Rosas	2022-2023
Esperanza Rosas Nicole Traver	2022-2023
Afrooz Golestanian	2020-2021
Michelle Urman	2020-2021
Sawyer Hicks	2019-2020
Angelina Giorgio	2018-2019
Jesus Frias	2018-2019

Deneice Brown Frank Jenkins Philip Bender Shane Breznak	2017-2018 2016-2017 2016-2017 2016-2017
Undergraduates	
Abigail Goldman, Drew University Chemistry, NSF REU	2024
Parmesh Thakoordial, UAlbany Biology, Honors	2024 - Present
Hoda Amaach, UAlbany Biology	2024 - Present
Mya Moriconi, UAlbany Human Biology	2021 - 2024
Michael Bratslavsky, UAlbany Biology, Honors College	2021 - 2023
2024 SUNY Chancellor's Award for Student Excellence	
Owen Zon, UAlbany Biology, Honors College Thesis Committee Member	2021 - 2022
Daniel Koskas, UAlbany Biology, Honors College	2020 - 2022
Lauren Merchant, UAlbany Biology, Honors College	2019 - 2021
Kate Sazon, UAlbany Biology, Honors College	2018 - 2022
Chelsi Riley, UAlbany Biology	2018 - 2019
Sylvia Kuang, UAlbany Biology, Honors College	2017 - 2019
2019 Glenn L. Bumpus Award for Excellence in Undergraduate Research	
Matthew Cacciola, UAlbany Biology	2016 - 2018
Sarah Soliman, UAlbany Biology	2016 - 2018
Taylor Mellow UAlbany Biology	2016 - 2018
Kegan Shreffler, UAlbany Biology	2016 - 2018
Sajana Chandrawansa UAlbany Biology	2016 - 2017
Aleyna Nur Sarap, UAlbany Biology	2016 - 2017
Merlyn Ramirez, UAlbany Biology	2016 - 2017

## HONORS

Division for Research and Economic Development Faculty Award for Scholarly Work	2023
Division for Research and Economic Development Faculty Award for Grant Activity	2022
Torch Faculty/Student Engagement Award Outstanding Nominee	2021
American Cancer Society Postdoctoral Fellow	2012
Vanderbilt Graduate Fellow	2005