

KAELA S. SINGLETON, PHD

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DEGREES EARNED

- 2014 - 2020 **Doctor of Philosophy**
Interdisciplinary Program in Neuroscience, Georgetown University
- 2010 - 2014 **Bachelor of Science**
Neuroscience & Classical History and Culture, Agnes Scott College

PROFESSIONAL EXPERIENCE

- 2024 – Present **Director of Grants Management**, Cure Alzheimer's Fund
Supervisor: Julie Harris, PhD
- 2023 – Present **President** (and Co-founder), Black in Neuro
- 2023 – 2024 **Campaign Manager**, Solving for Science
Supervisor: Kari Fischer, PhD
- 2020 – 2023 **Postdoctoral Fellow**, Department of Cell Biology
Emory University School of Medicine
Mentor: Victor Faundez, MD/PhD
- 2020 – 2022 **Adjunct Professor**, Department of Biology,
Agnes Scott College, Chair: Jennifer F. Larimore, PhD
- 2014 – 2020 **Graduate Student**, Department of Biology
Georgetown University, Mentor: Elena Silva, PhD
- 2012 – 2014 **Undergraduate Research Assistant**, Department of Physiology,
Emory University, Mentor: Gretchen N. Neigh, PhD
- 2013 – 2014 **Undergraduate Research Assistant**, Department of Biology,
Agnes Scott College, Mentor: Jennifer F. Larimore, PhD
- 2013 – 2014 **Undergraduate Research Assistant**, Department Psychology,
Zoo Atlanta, Mentor: Bonnie M. Perdue, PhD
- Summer 2013 **Vanderbilt Summer Science Academy Fellow**, Department of Physiology,
Vanderbilt University, Mentor: Katherine Ellacott, PhD
- Summer 2012 **Behavioral & Behavior Fellow**, Neuroscience Institute,
Georgia State University, Mentor: Michael P. Black, PhD

FUNDING

- 2021 – 2023 Postdoctoral Enrichment Program ([PDEP](#)), Burrough Wellcome Fund
- 2020 – 2021 Fellowship in Research and Science Teaching ([FIRST](#))
NIH, NIGMS, K12GM000680
- 2018 – 2023 Blueprint Diversity Specialized Predoctoral to Postdoctoral Advancement in
Neuroscience ([D-SPAN](#)) Award NIH, NINDS, F99NS108539 | K00NS108539
- 2016 – 2018 Training in Neural Injury and Plasticity ([NIP](#)) Center for Neural Injury & Regeneration
NIH, NINDS, 5T32NS041218
- 2014 – 2015 Predoctoral Training in Integrative Neuroscience ([PTIN](#)) NIH, NINDS, 5T32NS041231
- 2012 – 2014 Enhancing Undergraduates in Neuroscience Research Fellowship ([ENDURE](#)) NIH,
NINDS 8R25NS080688-03, Sub-Award SP00010548

FELLOWSHIPS, HONORS & AWARDS

2022	30 under 30 in Science (Forbes Magazine)
2022	Allison Doupe Fellowship (McKnight Endowment Fund)
2021	NIH Loan Repayment Program, Pediatric Research (NINDS)
2021	Postdoctoral Enrichment Program Fellow (Burroughs Wellcome Fund)
2020	1,000 Inspiring Black Scientist, Rising Star (Cell Mentor)
2020	Trainee Spotlight (Department of Cell Biology, Emory University School of Medicine)
2020	100 More Inspiring Black Scientists, Rising Star (Cell Press)
2020	Outstanding Young Alumna (Agnes Scott College, Alumnae Board)
2019	Nominated Karen Gale Exceptional PhD Award (Georgetown University)
2018	Nominated Zukowska & Smulson Excellence in Thesis Research Award (Georgetown University Medical Center)
2018	Biomedical Graduate Education Award (Georgetown University)
2018	Carl Storm Minority Fellowship (Gordon Research Conference)
2018	MCGSO Travel Award (Georgetown University)
2017	Neuroscience Scholars Program Professional Development Award (Society for Neuroscience)
2017	3 rd Place, Poster Presentation (Scientista Symposium)
2016	Outstanding Teaching Fellow (Georgetown University)
2016	1 st Place, Molecular Biology Poster Presentation (Georgetown University)
2014	Lillian Dale Thomas Achievement Award (Agnes Scott College)
2013	Vanderbilt Summer Science Academy Fellowship (Vanderbilt University)
2012	Behavioral Research in Advancements in Neuroscience Fellowship (Georgia State University)
2012	Center for Behavioral Neuroscience Fellowship (Agnes Scott College & Georgia State University)
2011	Achievement Scholarship (Organization for Chinese Americans & Pacific Islanders)
2010	Generating Excellence in Math and Science Fellowship (Agnes Scott College)

PUBLICATIONS

Singleton, **KS**, Silva-Rodriguez, P, Cunningham, DD, Silva, EM. Xenopus Sox11 Partner Proteins and Functional Domains in Neurogenesis. *Genes* **2024**. [\[Link\]](#)

Zlatic SA, Werner E, Surapaneni V, Lee CE, Gokhale A, **Singleton KS**, Duong D, Crocker A, Gentile K, Middleton F, Dalloul JM, Liu WL, Patgirl A, Tarquinio D, Carpemter R, Faundez V. Systemic Metabolic and Mitochondrial Defects in Retty Syndrome Models. *Human Molecular Genetics* **2023** [\[Link\]](#)

Wynne M*, Lane AR*, **Singleton KS*** Zlatic S, Gokhale A, Werner E, Duong D, Kwong J, Crocker A, Faundez V. Heterogeneous Expression of Nuclear Encoded Mitochondrial Genes Distinguishes Inhibitory and Excitatory Neurons. *eNeuro* **2021** [\[Link\]](#) *authors contributed equally

Singleton KS, Murray DRK, Dukes AJ, Richardson LNS. A year in review: are DEI initiatives fixing systemic barriers? *Neuron, NeroView* **2021**. Invited Editorial [\[Link\]](#)

Singleton KS, Faundez VF. Robustness and Innovation Along the Endocytic Route: Lessons from Darkness. *Journal Cell Biology*. **2021**. [\[Link\]](#)

Singleton KS, Tesfaye R, Dominguez E, Dukes A. An Open Letter to past, current and future mentors of Black neuroscientist. *Nature Reviews Neuroscience*. **2020**. [\[Link\]](#) Invited Editorial

Lee CE, **Singleton KS**, Wallin M, Faundez VF. Rare Genetic Diseases, Nature's Experiment on Human Development. *iScience* **2020**. [\[Link\]](#)

Larimore J, Zlatic SA, Arnold M, **Singleton KS**, Cross R, Rudolph H, Bruegge MV, Sweetman A, Garza C, Whisnant E and Faundez V. Dysbindin Deficiency Modifies the Expression of GABA Neuron and Ion Permeation Transcripts in the Developing Hippocampus. *Front. Genet.* **2017** [\[Link\]](#)

Rudolph H., Cross RD., Segura L, **Singleton KS.**, Larimore, J. Neuronal Endosomal Trafficking: One of the common molecular Pathways Disrupted in Autism Spectrum Disorders and Schizophrenia. *Journal of Neurology and Psychology*. **2016**. [\[Link\]](#)

Arnold M*, **Singleton KS***, Cross RD*, Chapleau D, Mullin AP, Rolle I, Moore C, Theibert A, Pozzo-Miller L, Faundez V, Larimore J. The Endosome Localized AGAP1 Modulates Spine Morphology Downstream of the Neurodevelopmental Disorder Factor Dysbindin. *Frontiers in Cellular Neuroscience*. **2016**. [\[Link\]](#) *Authors contributed equally

Kalidindi A, Kelly SD, **Singleton KS**, Guzman D, Merrill L, Willard SL, Shively CA, Neigh GN. Reduced marker of vascularization in the anterior hippocampus in a female monkey model of depression. *Physiol Behav*. **2016**. [\[Link\]](#)

Larimore J, Zlatic SA, Gokhale A, Tornieri K, **Singleton KS**, Mullin AP, Tang J, Talbot K, Faundez V. Mutations in the BLOC-1 Subunits Dysbindin and Muted Generate Divergent and Dosage-Dependent Phenotypes. *J Biol Chem*. **2014**. [\[Link\]](#)

INVITED SEMINARS

From bench to non-profits: Neuroscience PhD as a tool for Success, Georgia State University, Women Lead Organization, 2023

Systems Biology and -omics Approaches to Neurodevelopmental Disorders, University of Georgia, Department of Biology, 2022

Keynote, Systems Biology: a holistic approach to early career training and neurodevelopment disorders, Fralin Biomedical Research Institute at Virginia Tech, 2022

Cellular and Molecular Mechanisms in Neural Development and Neurodevelopmental disorders. Middlebury College, Program in Neuroscience, 2021

Keynote, A Systems Biology Approach to professional development and neurodevelopmental disorders, Georgetown University, Medical Center Graduate Student Organization Student Research Day, 2021

Systems Biology approach to neurodevelopmental disorders. University of Massachusetts Lowell, Biology Department 2021

Systems Biology approach to cellular and molecular phenotypes in neurodevelopmental disorders Oberlin College, Neuroscience Department, 2021

Understanding Copper Regulation in Pediatric Neurodegeneration. Wellesley College, Neuroscience Department, 2021

Mitochondria Dynamics & Metabolic Mapping of Menkes Disease. Department of Genome Sciences. University of Washington, 2021

Systems Biology Approach to Neuron Formation. UC San Diego, Graduate Diversity and Science Lecture Series, 2021

Distinguished Lecture, Control of Neuron Formation in Neurodevelopmental & Neurodegenerative Disorders. Bay Path University 2021

Understanding Copper Regulation in Neurodegeneration. Morehouse College, Department of Biology, 2021

Mitophagy in Menkes Disease. University of Washington, Department of Biology, 2021

Menkes Disease: Mediating Copper Homeostasis in the developing brain. Georgia State University Neuroscience Institute, 2021

Defining Neuronal and Professional Identity using systems biology and principles of Equity Diversity and Inclusion. Department of Biological Sciences at Columbia University, 2020

Mitochondria Integrity & Localization in Menkes disease. Tulane University, BRAIN Institute, 2020

Molecular Signals & Cellular Events in Neural Development. University of Oregon, Department of Biology, 2020

Mismatched Sox: Sox11 Regulation and Function across species. Emory University, Cell Biology, 2018

Knocking your Sox off: Disruption of Sox11 function in embryogenesis. Agnes Scott College, Department of Biology, 2018

CONFERENCE PRESENTATIONS

Poster Presentation, Mitochondria Integrity and Localization in Menkes Disease. Burroughs Wellcome Fund Symposium, 2021

Selected Talk, Downstream Targets of Sox11 in Neural Development. Gordon Research Seminar Neural Development, 2018

Poster Presentation, Downstream Targets of Sox11 in Neural Development. Gordon Research Conference Neural Development, 2018

Selected Talk, Nanosymposium, Cross Species function and regulation of Sox11 in neural development. Society for Neuroscience; Nanosymposium #448: Neuronal Differentiation Mechanisms, Abstract #5813, 2017

Poster Presentation, Pairing your Sox: Cross species function of Sox11 in neural development. Scientista Symposium, 2017

Selected Talk, Pairing your Sox: Cross species function of Sox11 in neural development. Mid-Atlantic Society for Developmental Biology, Nanosymposium 2017

Poster Presentation, Function and Post-Translational Modifications of Sox11 in neural development. Society for Neuroscience DCMA Chapter Symposium, 2017

Poster Presentation, Post-transcriptional Regulation of Sox11 in Neural Development. Diversity Poster Session, Society for Neuroscience, 2017

Poster Presentation, Matching your Sox: Cross species functional analysis of Sox11 during Neural Development. Mid-Atlantic Society for Developmental Biology, 2016

Invited Seminar, Sox11 aids Differentiation in Multiple Systems. National Institute of Health, Zebrafish Frog Integrative Group, 2016

Selected Talk, Pairing your Sox: Regulation of Sox11 in Neurodevelopment. Georgetown University Student Research Day, 2016

Poster Presentation, The Role of Endosomal Trafficking in Rett Syndrome. Agnes Scott College Spring Annual Research Symposium, 2014

Oral Presentation, The Tragic Medical Woman: A manipulation of Greek ideals and medical concepts by Euripides. Agnes Scott College, Spring Annual Research Symposium, 2014

Poster Presentation, Self-Groom and Resting Behavior: The Effects of Weather on Red Kangaroos. Agnes Scott College Spring Annual Research Symposium, 2014

Oral Presentation, Reduced Vascularization of Anterior Hippocampus in a Female Monkey Model of Depression. BP-ENDURE Symposium, 2014

Poster Presentation, Expression of HIV-1 causes depressive-like behaviors and decreased cell proliferation in the dentate gyrus of adolescent female rats. BP-ENDURE Symposium, 2014

Oral Presentation, The Susceptibility of Tragic Women to Eros: A Commentary on Hippocratic Definition. Agnes Scott College, Spring Annual Research Symposium, 2013

Poster Presentation, The effects of acute and repeated cocaine administration on *Procambrinus clarkia*. Diversity in Neuroscience Poster Session and Faculty for Undergraduate Neuroscience Research, 2012

TEACHING EXPERIENCE

- 2021 – 2022 **Guest Lecturer**, Icahn School of Medicine at Mount Sinai
Lectures: Effective Science Communication, Science online: Mobilizing community via social media platforms
- 2020 – 2022 **Adjunct Professor**, Agnes Scott College, Department of Biology
Courses: Integrative Biology Lab, Foundations in Neuroscience, Diseases of the Nervous System
- 2016 – 2017 **Teaching Fellow**, Georgetown University, Biology Department. *Course: Foundations in Neural Development*
- 2015 – 2017 **Instructor**, Georgetown University, Neuroscience Department, Graduate student course in the fundamentals of neuroscience. *Topics: Neural Development, Spinal Cord and Brain Stem Anatomy, Autonomic and Homeostatic Control*
- 2014 – 2016 **Guest Lecturer**, Georgetown University, Foundations in Developmental Neuroscience, Biology Department. *Lectures: Neurogenesis, Synaptogenesis, Mechanisms of Neurodevelopmental Disorders*

WORKSHOPS AND CERTIFICATES

Antiracist Pedagogy Across the Curriculum (St. Cloud State University), Building Antiracist Labs (Emory Office of Postdoctoral Education)

MANUSCRIPT REVIEWER

eNeuro, Journal of Neuroscience

SERVICE AND LEADERSHIP

- 2022 **Speaker**, “What does DEI mean to you?” Emory University, Biochemistry, Cell, and Developmental Biology Professional Development Workshop
- 2022 **Speaker**, PATHS Panel, LGBT+ in STEAM
- 2022 **Panelist**, “Black Queer Town Hall in STEMH” University of Iowa and UPenn
- 2022 **Panelist**, “Fix the Gap” 500 Women Scientist
- 2022 **Panelist**, “STEM Career Development Workshop” University of Vermont
- 2022 **Speaker**, “How to find a mentor” Building up the Nerve Podcast
- 2022 **Committee Member**, Society for Neuroscience Trainee Advisory Committee
- 2022 **Panelist**, “Out in STEM” Rockefeller University
- 2021 **Speaker**, “Transitioning to PostDoc,” Grad Chat Podcast
- 2021 **Speaker**, “Creating Inclusive Environments in Neuroscience” Neurology and Neurosurgery Special Interest Group
- 2021 **Panelist**, “LGBTQ+ in Academia,” My Fave Queer Chemist Podcast
- 2021 **Panelist**, “Career Perspectives in STEM,” Neuroscience Program, Emory University
- 2021 **Speaker**, “Reflecting on Diversity, Equity & Inclusion,” Neuroscience Program, Emory University
- 2021 **Panelist**, “Women in Neuroscience,” UT Neuroscience Department and Dell Medical Neurology Department
- 2021 **Panelist**, “Diversity, Equity & Inclusion Panel,” Georgia State University, Neuroscience Institute Retreat
- 2021 **Speaker**, “Crafting your Grad School Applications Workshop,” Harvard University, McLean Mental Health Research Summer Program
- 2021 **Speaker**, “STEM Talks: Bold Conversations & The Importance of Representation in STEM” Society for Neuroscience

- 2021 **Panelist**, “Personal Experiences, Intersectionality, and Call to Action” University of Amsterdam
- 2021 **Speaker**, International Diversity Network’s “Intersectionality within the LGBTQ+ Community” Series
- 2021 **Speaker**, “Science Night Keynote, Upper School Assembly Series” Germantown Friends School
- 2021 **Panel**, “Real Careers Have Curves” Columbia University
- 2021 **Panel**, “Growing Up in Science” University of Rochester [\[Link\]](#)
- 2021 **Panel**, “Current State of Diversity & Inclusion in Postdoctoral Population” National Postdoctoral Association [\[Link\]](#)
- 2021 **Panel**, “Mentors & Mocktails” Howard University’s Out in Stem
- 2021 **Panel**, Black In Neuroscience: Advocating for yourself and others, Georgia State Neuroscience Diversity, Equity and Inclusion Committee
- 2021 **Organizer**, “Re-envisioning Postdoctoral Training in Neuroscience” National Academies of Sciences, Engineering, and Medicine’s Action Collaborative on Neuroscience Training [\[Link\]](#)
- 2021 **Speaker**, “Building your Scientific Brand” Georgia State University, Neuroscience Institute.
- 2021 **Speaker**, “Effective Scientific Communication on Social Media” Icahn School of Medicine at Mt. Sinai, Friedman Brain Institute.
- 2021 **Council Member**, Atlanta Chapter of Society for Neuroscience. [\[Link\]](#)
- 2020 **Panel**, “Queer, Trans, Black, Indigenous, People of Color in STEM”
- 2020 **Panel**, “Queer and Trans in Neuro” NeuroMatch Conference [\[Link\]](#)
- 2020 **Consultant**, Diversity, Equity, and Inclusion Georgia State University
- 2020 **Consultant**, Diversity, Equity, and Inclusion Max Planck Institute
- 2020 **Co-Founder & President-Elect** Black In Neuro [\[Link\]](#)
- 2020 **Member**, National Academies of Sciences, Engineering, and Medicine’s Action Collaborative on Neuroscience Training: Developing a Nimble and Versatile Workforce. [\[Link\]](#)
- 2020 **Speaker**, “Using Neuroscience to Foster a Sense of Belonging in STEM” International Society for Optics and Photonics.
- 2020 **Panel**, Agnes Scott College’s Alumnae Career Panel
- 2020 **Panel**, National Academy of Science Engineering & Medicine “Workshop & Discussion on Racial Justice, Diversity, Equity, and Inclusion in Neuroscience.” [\[Link\]](#)
- 2020 **Panel**, BlackInNeuro’s “Grad Journey: Making the Most of Your Degree Experience Panel.” [\[Link\]](#)
- 2019 **Panel**, “Pathways and Perspectives on Being a Researcher.” NINDS Society for Neuroscience
- 2017 – 2019 **Writer**, Georgetown University’s Career Catalyst. Topics: Receiving Strong letters of recommendation, choosing a PhD Program, succeeding in Graduate School, Crafting a Strong CV. [\[Link\]](#)
- 2017 **Panel**, Enhancing Neuroscience Diverse in Undergraduate Research Experience “Succeeding in Graduate School Panel”, NINDS
- 2016 **Panel**, “Creating Balance: Women in Science and Technology” Washington DC International School
- 2016 – 2020 **Member**, Student Advisory Committee, Interdisciplinary Program in Neuroscience
- 2014 – 2020 **Judge**, Georgetown University’s Junior Science & Humanities Symposium
- 2014 – 2020 **Volunteer**, Georgetown University’s Brain Awareness Week
- 2014 – 2020 **Peer Mentor**, Interdisciplinary Program in Neuroscience
- 2013 **Panel**, Discovering Undergraduate Training Experiences Panel

MEDIA & PRESS

2022	Orlando Science Center's SCOPE Magazine "Paving the Way for Diversity in STEM" [Link]
2023	Podcast Interview , Her Royal Science Podcast "Identity" [Link]
2022	GO Magazine "100 Women We Love" [Link]
2022	Forbes Magazine "30 under 30: Science"
2021	National Geographic TV "LGBTQIA+ Innovators in Science" [Link]
2021	Real Scientists "#BlackInNeuro Week 2021: Dr Kaela Singleton hosts Real Scientists" [Link]
2021	MedPage Today , by Amanda D'Ambrosio "#BlackInNeuro: How a Hashtag Forged Community for Black Scientists" [Link]
2021	Nature Medicine , by Rodrigo Pérez Ortega "Black scientists gather to form communities and boost diversity in science" [Link]
2021	Neuro Central , "Womxn to Watch Series" [Link]
2021	Young Scientists' Journal , "LGBTQ Spotlight" [Link Forthcoming]
2021	With a Science Degree , "Understanding Career Options" [Link]
2021	Chemical & Engineering News , "Pandemic Stress: The toll it's taking on students" [Link]
2020	Cell Mentor , "1,000 Inspiring Black Scientists" [Link]
2020	Society for Neuroscience's Neuronline , "Advice for Navigating Academia as a Black Woman" [Link]
2020	Scientist on the Subway Profile by Briana Chen. [Link]
2020	Nature Careers by Kendall Powell. "How LGBT+ scientists would like to be included and welcomed in STEM workplaces" [Link]
2020	Insider Higher ED by Colleen Flaherty. "Female academics saw their own experiences with #maninterrupting in this week's vice presidential debate" [Link]
2020	Trainee Spotlight by Emory University's Department of Cell Biology. [Link]
2020	Cell Press's "100 More Inspiring Black Scientists" [Link]
2020	Forbes by Nicole Fisher. "New #BlackInNeuro Campaign Connects Bright Minds from Around The World." [Link]
2020	The Onxy Agnes Scott College "Outstanding Young Alumna Spotlight." [Link]
2018	Student Spotlight Georgetown's Biomedical Graduate Education. [Link]