Brian P. Daniels, Ph.D.

Department of Cell Biology and Neuroscience Rutgers, The State University of New Jersey

604 Allison Road, Room 314 Piscataway, New Jersey 08854 Email: b.daniels@rutgers.edu Website: danielslab.net Phone: (848) 445-2709

Education

2015	Ph.D., Neuroscience
	Washington University, Saint Louis, Missouri
2010	B.S., Behavioral Biology (Summa Cum Laude)
	Southern Wesleyan University, Central, South Carolina
2010	B.A., English Language and Literature (Summa Cum Laude)

Southern Wesleyan University, Central, South Carolina

Professional Appointments

2019-present **Assistant Professor**

> Department of Cell Biology and Neuroscience Rutgers University, New Brunswick, New Jersey

2015-2018 **Postdoctoral Research Fellow**

Department of Immunology

University of Washington, Seattle, Washington

Research Support

Current Support

2021-2026 R01 NS120895 Daniels (PI)

NIH/NINDS

Astrocytic RIPK3 as a driver of protective neuroinflammation during viral encephalitis

Administrative supplements

*2021-2023 Research Supplement to Support Diversity (Supplementee: Juan Angel) Research Supplement to Support Diversity (Supplementee: Irving Estevez) *2022-2025

2021-2023 R21 MH125034 Daniels (PI)

NIH/NIMH

Maternal ZIKV infection as an environmental risk factor for mental illness

Pending Support

2023-2025 R21 NS130282 Daniels (PI)

NIH/NINDS

RIPK3-dependent suppression of excitotoxicity during neuronal flavivirus infection

**3rd percentile score. Pending NOA.

Past Support

2019-2021 CSCR20ERG003 Daniels (PI)

New Jersey Commission on Spinal Cord Research

Investigating RIPK3 as a driver of inflammatory astrocyte activation in

spinal cord injury.

Research Grant 2019-2021 Daniels (PI)

American Parkinson's Disease Association

Title: Investigating astrocytic RIPK3 activation in Parkinson's disease.

2017-2018 F32 AI12954 Daniels (PI), Oberst (Sponsor)

Ruth L. Kirschstein Postdoctoral NRSA

Title: RIP3 mediated restriction of neuropathogenesis during viral encephalitis

2014-2015 F31 NS087866 Daniels (PI), Klein (Sponsor)

Ruth L. Kirschstein Predoctoral NRSA

Title: Interferon regulation of the blood-brain barrier during West Nile encephalitis

2011-2014 DGE-1143954 Daniels (PI), Klein (Sponsor)

NSF Graduate Research Fellowship

Title: Brain endothelial cell polarity and immune trafficking at the blood-brain barrier

2009 SCICU Undergraduate Research Grant Daniels (PI), Rouse (Sponsor)

South Carolina Independent Colleges and Universities

Title: Hippocampal lesions and spatial memory loss in rats due to latent toxoplasmosis

Publications

- Chang NP, DaPrano EM, Evans WR, Nissenbaum M, McCourt M, Alzate D, Lindman M, Chou TW, Atkins C, Kusnecov AW, Huda R, and Daniels BP. (2023) Neuronal DAMPs exacerbate neurodegeneration via astrocytic RIPK3 signaling. BiorXiv. Doi: (pending)
- Lindman M, Angel JP, Estevez I, Chang NP, Chou TW, McCourt M, Atkins C, and Daniels BP. (2023) RIPK3 promotes brain region-specific interferon signaling and restriction of tick-borne flavivirus infection. BiorXiv. doi: 10.1101.2023.01.23.525284
- Angel JP and Daniels BP. (2022) Paradoxical roles for programmed cell death signaling during viral infection of the central nervous system. Current Opinion in Neurobiology. 77:102629. doi: 10.1016/j.conb.2022.102629
- Kung PL, Chou TW, Lindman M, Chang NP, Estevez I, Buckley BD, Atkins C, and Daniels BP. (2022) Zika virusinduced TNFα signaling dysregulates expression of neurologic genes associated with psychiatric disorders. Journal of Neuroinflammation. 19:100. doi: 10.1186/s12974-022-02460-8. PMCID: PMC9036774
- Chou TW*, Chang NP*, Krishnagiri M, Patel AP, Lindman M, Angel JP, Kung PL, Atkins C, and Daniels BP. (2021) Fibrillar α-synuclein induces neurotoxic astrocyte activation via RIP kinase signaling and NF-κB. Cell Death & Disease. 12:756. doi:10.1038/s41419-021-04049-0 (*Equal contribution). PMCID: PMC8325686
- Xu R, Boreland AJ, Li X, Erickson C, Jin M, Atkins C, Pang Z, Daniels BP, and Jiang P. (2021) Developing human pluripotent stem cell-based organoids with a controllable microglia ratio for modeling brain development and pathology. *Stem Cell Reports*. 16:1-15. doi:10.1016/j.stemcr.2021.06.011. PMCID: PMC8365109
- **Daniels BP** and Oberst A. (2020) Outcomes of RIP kinase signaling during neuroinvasive viral infection. Current Topics in Microbiology and Immunology. Springer, Berlin, Heidelberg. doi: 10.1007/82 2020 204 (Book Chapter). PMCID: PMC7781604
- Williams JL, Manivasagam S, Smith BC, Sim J, Vollmer LL, Daniels BP, Russell JH, and Klein RS. (2020) Astrocyte-T cell crosstalk regulates region-specific neuroinflammation. Glia. 2020:1-14. doi:10.1002/glia.23783. PMCID: PMC7317491

- Orozco SL, Daniels BP, Yatim N, Messmer MN, Quarato G, Snyder AG, Ralli-Jain P, Frase S, Tait SWG, Green DR, Albert ML, and Oberst A. (2019) RIPK3 activation leads to continued cytokine synthesis after loss of cell membrane integrity. Cell Reports. 28:2275-2287. doi:10.1016/j.celrep.2019.07.077. PMCID: PMC6857709
- Wuertz KM, Treuting PM, Hemann EA, Esser-Nobis K, Snyder AG, Graham JB, Daniels BP, Wilkins C, Snyder J, Voss KM, Oberst A, Lund J, and Gale Jr. M. (2019) STING is required for host defense against neuropathological West Nile virus infection. *PLOS Pathogens*. 15(8): e1007899. doi:10.1371/journal.ppat.1007899. PMCID: PMC6695101
- Snyder AG, Hubbard NW, Messmer MN, Kofman SB, Hagan CE, Orozco SL, Chiang K, Daniels BP, Baker D, and Oberst A. (2019) Intratumoral activation of the necroptotic pathway components RIPK1 and RIPK3 potentiates anti-tumor immunity. Science Immunology. 4(36): eaaw2004. doi: 10.1126/sciimmunol.aaw2004. PMCID: PMC6831211
- Daniels BP, Kofman SB, Smith JR, Norris GT, Snyder AG, Kolb JP, Gao X, Locasale JW, Martinez J, Gale Jr. M, Loo YM, and Oberst A. (2019) The nucleotide sensor ZBP1 and kinase RIPK3 induce the enzyme IRG1 to promote an antiviral metabolic state in neurons. *Immunity*. 50:1-13. doi:10.1016/j.immuni.2018.11.017. PMCID: PMC6342485
- Daniels BP, Snyder AG, Olsen TM, Orozco S, Oguin III TH, Tait SWG, Martinez J, Gale Jr. M, Loo YM, and Oberst A. (2017) RIPK3 restricts viral pathogenesis via cell death-independent neuroinflammation. Cell. 169:301-313. doi:10.1016/j.cell.2017.03.011. PMCID: PMC5405738
- Daniels BP, Jujjavarapu H, Durrant DM, Williams JL, Green RR, Lazear HM, Gale Jr. M, Diamond MS, and Klein RS. (2017) Regional astrocyte interferon signaling restricts pathogenesis during neurotropic viral infection. Journal of Clinical Investigation. 127(3):843-856. doi:10.1172/JCI88720. PMCID: PMC5330728
- Gutierrez KD, Davis MA, Daniels BP, Olsen TM, Ralli-Jain P, Tait SW, Gale Jr. M, and Oberst A. (2017) MLKL activation triggers NLRP3-mediated processing and release of IL-1β independent of gasdermin-D. Journal of Immunology. 198(5):2156-2164. doi:10.4049/jimmunol.1601757. PMCID: PMC5321867
- Pal P, Daniels BP, Balaban A, Oskman A, Diamond MS, Sinnis P, Klein RS, and Goldberg DE. (2016) The histidine-rich protein II of Plasmodium falciparum triggers an inflammasome-dependent response that compromises blood-brain barrier integrity and promotes cerebral malaria pathogenesis. mBio. 7(3):e00617-16. doi:10.1128/mBio.00617-16
- Durrant DM, Daniels BP, Pasieka TJ, Dorsey D, and Klein RS, (2015) CCR5 limits cortical viral loads during West Nile virus infection of the central nervous system. Journal of Neuroinflammation. 12:233. doi:10.1186/s12974-015-0447-9. PMCID: PMC4678669
- Miner JJ, Daniels BP, Shrestha B, Proenca-Modena JL, Lew ED, Lazear HM, Gorman MJ, Lemke G, Klein RS, and Diamond MS. (2015) The TAM receptor tyrosine kinase Mertk protects against neuroinvasive viral infection by maintaining blood-brain barrier integrity. Nature Medicine. 21(12):1464-72. doi:10.1038/nm.33974
- Daniels BP and Klein RS. (2015) Knocking on closed doors: Host interferons dynamically regulate blood-brain barrier function during viral infections of the central nervous system. **PLOS Pathogens**. 11(9):e1005096. doi:10.1371/journal.ppat.1005096 (Review article). PMCID: PMC4574746
- Lazear HM*, Daniels BP*, Pinto AK, Huang AC, Vick SC, Gale Jr. M, Klein RS, & Diamond MS. (2015) Interferon-λ restricts West Nile virus neuroinvasion by enhancing integrity of the blood-brain barrier. Science Translational Medicine. 7(284):284ra59. doi: 10.1126/scitranslmed.aaa4304 (*Equal contribution). PMCID: PMC4435724

- Daniels BP and Klein RS. (2015) Viral sensing at the blood-brain barrier: new roles for innate immunity at the CNS vasculature. *Clinical Pharmacology and Therapeutics*. 97(4):372-79 (Review article)
- **Daniels BP**, Sestito SR, & Rouse ST. (2015) An expanded task battery in the Morris water maze reveals effects of Toxoplasma gondii infection on learning and memory in rats. Parasitology International. 64(1):5-12. doi:10.1016/j.parint.2014.09.002
- Durrant DM, Williams JL, Daniels BP, & Klein RS. (2014) Chemokines referee inflammation within the central nervous system during infection and disease. Advances in Medicine. 2014:806741. doi:10.1155/2014/806741 (Review article). PMCID: PMC4590974
- Durrant DM, Daniels BP, & Klein RS. (2014) IL-1R1 signaling regulates CXCL12-mediated T cell localization and fate within the CNS during West Nile virus encephalitis. *Journal of Immunology*. 193(8):4095-4106. doi:10.4049/jimmunol.1401192. PMCID: PMC340598
- Daniels BP, Holman DW, Cruz-Oregno L, Jujjavarapu H, Durrant DM & Klein RS. (2014) Viral pathogenassociated molecular patterns regulate blood-brain barrier integrity via competing innate cytokine signals. mBio. 5(5):e01476-14. doi:10.1128/mBio.01476-14. PMCID: PMC4173776
- Cruz-Orengo L*, Daniels BP*, Dorsey D, Basak SA, Grajales-Reyes JG, McCandless EE, Piccio L, Schmidt RE, Cross AH, Crosby SD, & Klein RS. (2014) Enhanced sphingosine-1-phosphate receptor 2 expression underlies female CNS autoimmunity susceptibility. Journal of Clinical Investigation. 124(6):2571-2584. doi:10.1172/JCI73408 (*Equal contribution). PMCID: PMC4089451
- Williams JL, Patel JR, Daniels BP, Klein RS. (2014) Targeting CXCR7/ACKR3 as a therapeutic strategy to promote remyelination in the adult central nervous system. Journal of Experimental Medicine. 211(5):791-799. doi:10.1084/jem.20131224. PMCID: PMC4010893
- Daniels BP, Cruz-Orengo L, Paseika TJ, Couraud PO, Romero IA, Weksler B, Cooper J, Doering TL, & Klein RS. (2013) Immortalized human cerebral microvascular endothelial cells maintain the properties of primary cells in an in vitro model of immune migration across the blood brain barrier. Journal of Neuroscience Methods. 212(1):173-179. doi:10.1016/j.jneumeth.2012.10.001. PMCID: PMC3641664
- Szretter KJ, Daniels BP, Cho H, Gainey MD, Yokoyama WM, Gale Jr M, Virgin HW, Klein RS, Sen GC, & Diamond MS. (2012) 2'-O methylation of the viral mRNA cap by West Nile virus evades Ifit1-dependent and -independent mechanisms of host restriction in vivo. *PLOS Pathogens*. **8**(5): e1002642. doi:10.1371/journal.ppat.1002698. PMCID: PMC3349756

Selected Talks and Conference Presentations

2024	FASEB Research Conference: Translational Neuroimmunology
	Invited Talk, Niagra, NY
2023	City University of New York (CUNY) Neuroscience Collaborative
	Invited Talk, New York, NY
2023	American Society for Neurochemistry Annual meeting
	Selected symposium proposal and talk, Lexington, KY
2022	Brain Immunology and Glia (BIG) Center, University of Virginia School of Medicine
	Invited Talk, Charlottesville, VA
2022	FASEB Research Conference: Translational Neuroimmunology
	Invited Talk, Ashville, NC
2021	Rutgers Cell Biology and Neuroscience Society: Student-Invited Speaker
	Invited Talk, New Brunswick, NJ
2021	Pfizer, Inc.: Inflammation and Immunology Research Unit
	Invited Talk, virtual seminar

2021	American Society for Neurochemistry Annual Meeting
	Selected symposium proposal and talk, virtual conference
2021	American Parkinson's Disease Association Virtual Research Roundtable
	Invited speaker and panelist, virtual event
2020	The STEM Village Immunology Seminar Series
	Invited talk, virtual event
2020	National Institutes of Allergy and Infectious Disease, Rocky Mountain Laboratories
	Invited talk (cancelled due to COVID-19), Hamilton, MT
2020	Fox Chase Cancer Center, Research Institute
	Invited talk (cancelled due to COVID-19), Philadelphia, PA
2019	Robert Wood Johnson Medical School, Child Health Institute
	Invited Talk. New Brunswick, NJ.
2019	Lerner Research Institute, Department of Neuroscience
	Invited Talk. The Cleveland Clinic, Cleveland, OH
2019	American Society for Virology Annual Meeting
	Selected Talk. Minneapolis, MN
2019	I3D Symposium: Immune cells at the forefront of health and disease
	Invited talk. Rutgers New Jersey Medical School, Newark, NJ
2016	American Association of Immunologists Annual Meeting
	Selected Talk. Seattle, WA.
2010	South Carolina Academy of Science Annual Meeting
	Selected Talk. Charleston, SC.
2010	South Carolina Independent Colleges and Universities Research Symposium
	Invited Talk. Columbia, SC.
2009	Carolina Undergraduate Social Science Symposium
	Selected Talk. Aiken, SC.

Awards and Honors

2023	Chancellor-Provost Award for Excellence in STEM Diversity
	Rutgers University, Office of the Chancellor-Provost
2023	Inclusion, Diversity, Equity, and Advocacy (IDEA) Innovation Grant
	Rutgers University, Division of Diversity, Inclusion, and Community Engagement
2019	Early Career Faculty Travel Award
	American Association of Immunologists
2018	Postdoc Mentoring Award, Finalist
	University of Washington, Seattle, WA
2016	Trainee Abstract Award
	American Association of Immunologists
2015	David M. Kipnis Outstanding Dissertation in the Biomedical Sciences Award
	Washington University School of Medicine, Saint Louis, MO
2010	Honors Program Graduate
	Southern Wesleyan University, Central, SC
2010	Honor Society for Scholars of English
	Sigma Tau Delta
2009	National Honor Society
	Alpha Chi
2008-2010	National Science and Mathematics Access to Retain Talent (SMART) Grant
	U.S. Department of Education
2006-2010	Palmetto Fellowship
	South Carolina Commission on Higher Education

Mentorship and Mentee Honors

Graduate Students Evan DaPrano: PhD Student, Neuroscience 2023-present 2021-present Irving Estevez: PhD Student, Neuroscience HHMI Gilliam Fellowship (2023-2026) Awardee: Research Supplement to Promote Diversity, NINDS (2022-2025) Selected Talk: American Society for Neurochemistry Annual Meeting (2022) Selected Talk and Travel Award: American Society for Virology Annual Meeting (2022) 2020-present Tsui-Wen (Tracy) Chou: PhD Student, Microbiology and Molecular Genetics Rutgers Brain Health Institute Trainee Travel Award, Neurodevelopment (2023) Selected Talk: American Society for Neurochemistry Annual Meeting (2022) Young Investigator Educational Enhancement Award, ASN (2022) Selected Talk and Travel Award: American Society for Virology Annual Meeting (2022) Marissa Lindman: PhD Student, Microbiology and Molecular Genetics Travel Award: FASEB Translational Neuroimmunology (2022) Selected Talk, Travel Award (Trainee Abstract Award): AAI Annual Meeting (2022) Selected Talk, Registration Award: American Society for Virology Annual Meeting (2021) Selected Talk, Registration Award: FASEB Translational Neuroimmunology (2020) Nydia Chang: PhD Student, Neuroscience 2019-present Ruth L. Kirschstein Predoctoral NRSA: F31 NS124242 (2022-2024) Selected Talk and Travel Award: FASEB Translational Neuroimmunology (2022) Travel Award: Cold Spring Harbor Meeting – Glia in Health and Disease (2022) Young Investigator Educational Enhancement Award, ASN (2021) Keystone Joint Neuroimmunology/Neurodegeneration Registration Award (2021) Selectee for AAAS Catalyzing Advocacy in Science and Engineering Workshop (2019) Postbaccalaureate Scholars 2021-present Juan Angel National Science Foundation Graduate Research Fellowship (2024-2027) Awardee: Research Supplement to Promote Diversity, NINDS (2021-2023) Undergraduate Students Micheal McCourt 2022-present Diego Alzate Louis Stokes Alliance for Minority Participation (LSAMP) Fellowships (2022, 2023) 2021-present **Ben Buckley** Division of Life Sciences Summer Undergraduate Research Fellowships (2022,2023) 2023 **Emmanuel Worede-Kal** *Currently: Gap year preparing for medical school 2020-2023 Nicholas Panzera Henry Rutgers Scholar (School of Arts and Sciences Outstanding Thesis Award) (2023) Department of Cell Biology and Neuroscience Thesis Award (2022) Division of Life Sciences Summer Undergraduate Research Fellowships (2021, 2022) Selected Talk: American Society for Virology Annual Meeting (2021) *Currently: PhD Student, Immunology, University of Washington (beginning Fall 2023) 2021-2022 Sarah Adams *Currently: Medical Scribe, St. Peter's University Hospital 2019-2022 Po-Lun Kung Henry Rutgers Scholar (School of Arts and Sciences Outstanding Thesis Award) (2022) Department of Cell Biology and Neuroscience Research Excellence Award (2022) Selected Talk: American Society for Virology Annual Meeting (2021) Division of Life Sciences Summer Undergraduate Research Fellowships (2020, 2021)

*Currently: PhD Student, Developmental, Stem Cell, and Regenerative Biology Program, University of Pennsylvania

2019-2021 Medha Krishnagiri

Parkinson's Foundation Summer Student Fellowship (2020)

*Currently: Policy Analyst, NIH/NIAMS Scientific Planning, Policy, and Analysis Branch MPH Student, University of Maryland

Winnie Wong

Division of Life Sciences Summer Undergraduate Research Fellowship (2020)

Aresty Undergraduate Research Fellowship (2019)

*Currently: DDS Student, The University at Buffalo

2019-2020 Aisha Patel

Henry Rutgers Scholar (School of Arts and Sciences Outstanding Thesis Award) (2020)

Department of Cell Biology and Neuroscience Thesis Award (2020)

Division of Life Sciences Summer Undergraduate Research Fellowship (2019)

*Currently, Physician Assistant Training Program, Touro University Manhattan

Srija Indukuri

*Currently: Data analyst, Camber Pharmaceuticals

Rotation and Visiting Students

2023 Reem Alatrash

Rotation Student, Microbiology and Molecular Genetics

2019 Kimberly Newman

Rotation Student, Neuroscience

2019 Hahram Kim

Undergraduate Summer Intern

Amherst College Meiklejohn Fellowship (2019) *Currently: Postgraduate Associate, Yale University

Teaching

Graduate Teaching

Rutgers University

2020-present Current Concepts of Immunology (Course director, co-instructor)

2023 Minicourse: Programmed Cell Death and Inflammation (Sole Instructor)

2021 Advanced Studies in Neuroscience (Co-instructor)

Undergraduate Teaching

Rutgers University

Immunology (Course director, co-instructor) 2020-present 2020-2022 Laboratory in Immunology (Co-Instructor)

Bard College

2017 Citizen Science: Science as Storytelling (Sole Instructor)

Seattle University

Fundamentals of Immunology (Sole Instructor) 2016

Washington University in St. Louis

Scientific Literacy/Intro to Environmental Biology (Teaching Assistant) 2013

Principles of the Nervous System (Head Teaching Assistant) 2011

2011 **Summer Premedical Institute** (Co-Instructor)

Southern Wesleyan University Cell and Molecular Biology (Teaching Assistant) Scientific Literacy (Teaching Assistant) Biochemistry (Teaching Assistant) Genetics (Teaching Assistant) Honors Freshman Seminar (Teaching Assistant) General Biology for Majors (Supplemental Instructor)		
Institutional Service		
2020-present	Rutgers University Thesis Committees Doctoral -Julie Dobkin (MMG) -Kimberly Newman (Neuroscience) -Michael Rallo (Neuroscience) Masters	-Austin Graves (MMG) -Chadni Patel (CDB)
	Maraj Alam (Neuroscience) <u>Undergraduate</u> -Patrick Adly-Gendi (CBN) -Tanvi Banota (CBN) -Cynthia Daut (CBN) -Tanay-Veer Gandhi (CBN -Robert Juniewicz (Biology) -Isabelle Neville (Biology)	-Kimberly Vanexel (Comp. Bio) -Simona Alomary (CBN) -Nithisha Cheedalla (CBN) -Allen Fu (CBN) -Aditya Jain (CBN) -Sachin Mysore (CBN) -Ritika Raghavan (CBN)
2023-present	-Alex Silvergold (CBN) Summer Pre-College Academy for Neuroscie	-Ashley Yang (CBN) ence
2023-present	-Faculty Member Qualifying Exam Committee, Graduate Programmer	gram in Molecular Biosciences
2023-present	-Member Faculty Search Committee, Division of Life Search Area: Teaching faculty, Immur-Member	Sciences, Office of Undergraduate Instruction nology and Histology
2020-present	Diversity and Engagement Committee, Depa -Member and Diversity Advocate	artment of Cell Biology and Neuroscience
2019-present	Curriculum Committee, Department of Cell -Member	Biology and Neuroscience
2022-2023	Faculty Search Committee, Department of C -Search Area: Neural Regulation by No -Member and Diversity Advocate	O
2021-2022	First Year Interest Group Seminar (FIGS), Faculty Mentor, Careers in the Science	
2021-2022	Faculty Search Committee, Department of C -Search Area: Metabolism -Member	
2020-2022	University BSL3 Initiative Committee -Member	
2019-2022	Admissions Committee, Robert Wood Johns -Member	on Medical School MD/PhD Program
2016	University of Washington Center for Innate Immunity and Immune Di -Education outreach volunteer	isease

	Washington University
2013-2015	Production Team, Medical School Musical
	-Creative director
2013-2015	Future Educators
	-Chairperson
2012	NSF Graduate Student Grant Writing Workshop
	-Student mentor
2011-2012	Neuroscience Student Journal Club
	-Co-coordinator
2010-2013	Young Scientist Program
	-Teaching and community outreach volunteer
	Southern Wesleyan University
2009	Faculty Colloquium Planning Committee
2009	Faculty Colloquium Planning Committee -Student organizer
2009 2008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee
	Faculty Colloquium Planning Committee -Student organizer
	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative Faculty Member of the Year Selection Committee
2008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative
2008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative Faculty Member of the Year Selection Committee -Student representative First Year Curriculum Caucus
200820082008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative Faculty Member of the Year Selection Committee -Student representative First Year Curriculum Caucus -Honors student representative
2008 2008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative Faculty Member of the Year Selection Committee -Student representative First Year Curriculum Caucus -Honors student representative Student Government Association
200820082008	Faculty Colloquium Planning Committee -Student organizer Freshman Seminar Common Reader Selection Committee -Student representative Faculty Member of the Year Selection Committee -Student representative First Year Curriculum Caucus -Honors student representative

Professional Service

	Grant Review Service
2022-2023	Special Emphasis Panel: NIMH COVID-19 Mental Health Research
	-Reviewer: June 2022, February 2023
2021-2023	Center for the Advancement of Science in Space (CASIS)
	-Reviewer
2022	Dutch Research Council/Netherlands Organization for Scientific Research
	-Reviewer
2022	Trish Multiple Sclerosis Research Foundation (Australia)
	-Reviewer
2021-2022	HIV Molecular Virology, Cell Biology and Drug Development (HVCD) Study Section
	-Early Career Reviewer Program: March 2021
• • • •	-Reviewer: November 2021, March 2022
2020	National Science Foundation
	-Reviewer/Panelist
	Conference Service
2024	Session Chair: "Astrocytes in Neuroinflammation"
2021	-FASEB Research Conference: Translational Neuroimmunology, Niagra, NY
2023	Symposium Chair: "Regulation of neuroinflammation by glial cell death signaling"
2023	-American Society for Neurochemistry Annual Meeting, Lexington, KY
2022	Session Chair: "Flavivirus III: Pathogenesis"
	-American Society for Virology Annual Meeting, Madison, WI
2021-2022	Program Committee Member: "Glial Mechanisms and Injury"
	-American Society for Neurochemistry Annual Meeting, Roanoke, VA
2021	Session Co-Chair: "Flavivirus III: Pathogenesis"
	-American Society for Virology Annual Meeting, Virtual
2021	Symposium Co-Chair: "Unconventional roles for astrocytes in disease"
	-American Society for Neurochemistry Annual Meeting, Virtual

2019 **Session Leader**: "Choosing a postdoc to meet my needs"

-American Society for Virology Annual Meeting, Minneapolis, MN

Editorial Service

Managing Guest Editor 2022-2023

Special Issue: "Postinfectious cognitive and psychiatric sequalae"

Journal of Neuroimmunology

Journal Reviewer 2018-present

-ACS Infectious Diseases

-Clinical and Translational Medicine -Journal of Clinical Investigation

-Journal of Neuroinflammation

-Nature Communications -Neurotherapeutics -PLOS Negl. Trop. Dis.

-Scientific Reports

-Cell Death and Disease

-Frontiers in Microbiology

-Journal of Immunology

- Journal of Virology

-Molecular Neurobiology

-Neuroscience Letters -Parasites and Vectors

-PLOS Pathogens

-Trends in Neurosciences

Professional Development

Continuing Education Coursework Completed

Introduction to Online Learning (2 credits) 2022

-University of California, San Diego