

Tanvi Banota

EDUCATION

Rutgers University– New Brunswick; Honors College

Sep 2018 – May 2022

BA in Cell Biology and Neuroscience; Minor in Linguistics

GPA: 4.0

HONORS and AWARDS

Fulbright UK Research Award Semi-Finalist	Jan 2022
Azzara Family Endowed Scholarship	Jan 2022
Society of Toxicology RC4 Undergraduate Research Award	Dec 2021
Gates Cambridge Scholarship Finalist	Dec 2021
Rutgers Cap & Skull Honor Society	May 2021
<i>1 of 18 seniors selected out of the Rutgers-New Brunswick Class of 2022, representing the most impactful leaders and scholars on campus</i>	
ASPET at Experimental Biology 1 st Place Toxicology Undergraduate Presentation Award	Apr 2021
American Society for Investigative Pathology Research Funding	Apr 2021
Phi Beta Kappa Honor Society	Apr 2021
Rutgers Aresty Research Center Fellowship Funding for Research	Mar 2021
ASPET at Experimental Biology 2021 Travel Award	Feb 2021
Society of Toxicology Celebrating Women in Toxicology National Undergraduate Award	Jan 2021
Mid-Atlantic Society of Toxicology Meeting 3 rd Place Presentation Award	Jan 2021
APSA Northeast Regional Conference 2 nd Place Poster Award	Jan 2021
Society of Toxicology 2021 National Undergraduate Research Award	Dec 2020
Society of Toxicology 2021 RC4 Award National Finalist	Dec 2020
APSA Southeastern Medical Scientist Symposium Oral Presentation Award	Nov 2020
2020 Barry Goldwater Scholar	Mar 2020
<i>National award for excellence in research in natural science, engineering, or mathematics</i>	
Honors College/Douglass College Woman on the Rise	Mar 2020
2020 All-Academic Team – National Intercollegiate Women’s Fencing Assoc.	Feb 2020
ABRCMS Presentation Award in Pharmacology and Physiology Category	Nov 2019
Rutgers Aresty Research Center Conference Travel Award	Oct 2019
Rutgers Aresty Summer Science Symposium 1 st Place Poster Award	Aug 2019
Rutgers School of Arts and Science Excellence Scholarship	2019-2021
Rutgers Honors College Presidential Scholarship	2018-2022
<i>Merit-based, full-ride scholarship awarded to top 1-2% of incoming class</i>	

RESEARCH EXPERIENCE

Research Assistant

June 2017 – Sept 2017; June 2018 – Present

Debra Laskin Laboratory, Department of Pharmacology and Toxicology, Ernest Mario School of Pharmacy

- Conduct research on the role of the nuclear receptor farnesoid X receptor (FXR) in macrophage recruitment, activation, and polarization in the inflammatory response following nitrogen mustard-induced lung injury in mice

- Investigate the mechanisms of lung-liver crosstalk in a model of non-alcoholic steatohepatitis (NASH) in mice, placing emphasis on the role of FXR and macrophage activation in the development of lung injury and fibrosis following NASH
- Summer research funded by the NIH Summer Undergraduate Research Fellowship (2020, 2021), the Aresty Research Center (2019), and the Liberty Science Center (2017)

PUBLICATIONS

Venosa, A., Smith, L. C., Murray, A., **Banota, T.**, Gow, A. J., Laskin, J. D., & Laskin, D. L. (2019). Regulation of Macrophage Foam Cell Formation During Nitrogen Mustard (NM)-Induced Pulmonary Fibrosis by Lung Lipids. *Toxicological Sciences*, 172(2), 344-358. PMID: 31428777

Banota, T., Murray, A., Armstrong, L.E., Kong, B., Guo, G.L., Gow, A.J., & Laskin, D.L. (2021). Pulmonary Inflammation and Injury in a Mouse Model of Non-Alcoholic Steatohepatitis. *Rutgers Undergraduate Research Journal*. <https://doi.org/10.14713/arestyrurj.v1i3.177>

Abyad, J.*, **Banota, T.***, Fritz, Z.*, Lo, A.*, Burley, S.K., & Goodsell, D. (2021). Glucocorticoid Receptor and Dexamethasone. *RCSB PDB101 Molecule of the Month*, doi:10.2210/rcsb_pdb/mom_2021_6.

(*Contributed equally)

ORAL PRESENTATIONS

Rutgers Summer Undergraduate Research Fellowship Symposium	Aug 2021
National Council for Undergraduate Research Annual Symposium	Apr 2021
Mid-Atlantic Society of Toxicology Annual Meeting	Jan 2021
American Physician Scientist Assoc. Southeastern Medical Scientist Symposium	Nov 2020
Rutgers Summer Undergraduate Research Fellowship Symposium	Jul 2020

POSTER PRESENTATIONS

Rutgers Honors College Capstone Showcase	Apr 2022
Society of Toxicology Annual Meeting	Mar 2022
American Association for Immunologists Annual Meeting	May 2021
Aresty Research Center Annual Symposium	Apr 2021
Experimental Biology Annual Meeting (Also selected to present at ASPET Datablitz)	Apr 2021
Society of Toxicology Annual Meeting	Mar 2021
American Physician Scientist Assoc. Northeast Regional Conference	Jan 2021
Annual Biomedical Research Conference for Minority Students	Nov 2020
Society of Toxicology Annual Meeting (cancelled due to COVID-19)	Mar 2020
Annual Biomedical Research Conference for Minority Students	Nov 2019
Mid-Atlantic Society of Toxicology Annual Meeting	Oct 2019
Aresty Summer Science Symposium	Aug 2019
STEM Community Outreach Symposium at Rutgers	Nov 2018
Liberty Science Center Partners in Science Symposium	Aug 2017

INVITED TALKS

Battle of Forces: The Role of Inflammation in Disease
Molecular Imaging Techniques Mini-Fellowship Program, Stanford University

Aug 26th, 2021

SCIENTIFIC ENRICHMENT PROGRAMS

American Association of Immunologists 2021 Advanced Course in Immunology
Rutgers Interdisciplinary Quantitative Biology Bootcamp
Human and Mammalian Genetics and Genomics: The Jackson Laboratory
McKusick Short Course

July 25th – 30th 2021
Jan 11th – 14th 2021
July 20th – 30th 2020

ACADEMIC MEMBERSHIPS/SOCIETIES

Society of Toxicology
Women in Toxicology SOT Interest Group
American Physician Scientists Association
Mid-Atlantic Society of Toxicology
American Association of Immunologists

Member since:

2019
2020
2020
2020
2021

LEADERSHIP EXPERIENCE

Rutgers Undergraduate Research Journal Founder and Editor-in-Chief
Rutgers Club Fencing Team President/Captain
Aresty Research Center Peer Instructor
School of Arts and Science Honors Program Tutor and Tutor Coordinator

Sept 2019 – Present
Sept 2018 – Present
Sept 2020 – Present
Jan 2019 – May 2021

CLINICAL VOLUNTEER EXPERIENCE

Middlesex County Medical Reserves Corps Volunteer
Environmental and Occupational Health Sciences Institute Volunteer

June 2020 – Present
Jan 2020 – Present

NONCLINICAL VOLUNTEER EXPERIENCE

Honors College/CBN Society Professional Development Mentor
Learning Unlimited – Rainstorm Instructor
English for Beginners Program Volunteer Learning Facilitator

Sept 2019 – Present
June 2020, Dec 2020, May 2021, Aug 2021
April 2019 – March 2020