

Yonathan Daniel, MD

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Medical Training

- **Residency**, Internal Medicine – NYU School of Medicine, NY, NY | July 2025 – Present
- **Internship**, Internal Medicine – NYU School of Medicine, NY, NY | July 2024 – June 2025

Education

- **Doctor of Medicine**, Brown University, Providence, RI | May 2024
- **Bachelor of Science** Biology, University of Maryland, College Park, MD | January 2019

International Clinical Experience

- **Visiting Student** – Tokyo Women’s Medical University, Tokyo, Japan | Spring 2024
- **Visiting Student** – Tikur Anbessa Hospital, Addis Ababa, Ethiopia | Spring 2022

Research Experience

- **Summer Research Fellow**/ Andrew Tsourkas, PhD – University of Pennsylvania | 2017
Chlorin e6-Coated Superparamagnetic Iron Oxide Nanoparticle (SPION) Nanoclusters as a Theranostic Agent for Dual-Mode Imaging and Photodynamic Therapy.

Engineered chlorin e6-coated SPION nanoclusters (Ce6-SCs) via oil-in-water emulsion, achieving stable, water-soluble particles without auxiliary carriers. In tumor-bearing mice, Ce6-SCs accumulated within tumors, enabling dual MRI and optical imaging. With photodynamic therapy, they generated high singlet oxygen levels and significantly delayed tumor progression. These findings were presented at the fellowship retreat and later published in a peer-reviewed journal.

- **Summer Research Fellow** / Robert Mach, PhD – University of Pennsylvania | 2016
In Vitro Effects of PARP-1 Inhibition on Neuroblastoma

Evaluated whether inhibiting PARP-1 reduces the survival of high-risk neuroblastoma cells in vitro. Seven established cell lines (SK-N-SH, IMR-05, SK-N-BE(2), SK-N-BE(2)C, NB-1691, NLF, SH-SY5Y) were treated with four PARP-1 inhibitors (talazoparib, niraparib, olaparib, veliparib), and viability assays demonstrated dose-dependent reductions in cell survival. Sensitivity varied by cell line, with P52-mutated cells showing relative resistance. These findings were presented at the fellowship retreat and published as an abstract.

Published Papers & Abstracts

Amirshaghghi A, Yan L, Miller J, **Daniel Y**. Chlorin e6-Coated Superparamagnetic Iron Oxide Nanoparticle (SPION) Nanoclusters as a Theranostic Agent for Dual-Mode Imaging and Photodynamic Therapy. *Sci Rep*. 2019;9(1):2613. [doi:10.1038/s41598-019-39036-1](https://doi.org/10.1038/s41598-019-39036-1)

Pertsch NJ, Garcia CM, **Daniel Y**, et al. Outcomes for Adults with Metabolic Syndrome Undergoing Elective Carotid Endarterectomy. *World Neurosurg*. 2022;163:e146-e155. [10.1016/j.wneu.2022.03.082](https://doi.org/10.1016/j.wneu.2022.03.082)

Daniel Y, Freeman S. Not a Laughing Matter: When Nitrous Oxide Causes Functional Vitamin B12 Deficiency. *R I Med J* (2013). 2024;107(2):13-15. [PMID: 38285744](https://pubmed.ncbi.nlm.nih.gov/38285744/)

Daniel Y, Mohamed I, Wheeler AP. Triad of Terror: Rapidly Progressive Austrian Syndrome in a 62-Year-Old Female. *R I Med J* (2013). 2024;107(3):7-9. [PMID: 38412345](https://pubmed.ncbi.nlm.nih.gov/38412345/)

Daniel Y, Freeman S, Tell N, Knauer G. Double trouble: a complex case of recurrent ulcers and skin lesions. *J Gen Intern Med*. 2024;39(suppl 2):S292-S293. (Abstract)

Daniel Y, Knauer G. A case of concurrent Behçet disease and erythema multiforme in a young adult. *Cureus*. 2026;18(1):e102652. [doi:10.7759/cureus.102652](https://doi.org/10.7759/cureus.102652).

Book Chapters

Daniel Y. Thoracic surgery. In: *Surgery Basics: 4D Multimedia Integration*. 2nd ed. Living Learnings LLC; 2022:442-453. [ISBN: 979-8987017708](https://www.livinglearnings.com/ISBN:979-8987017708).

Daniel Y. FDA new drug applications in translational pulmonology. In: Eltorai AEM, Hartnett DA, Bakal JA, Tereshchenko LG, eds. *Handbook for Designing and Conducting Clinical and Translational Research: Translational Pulmonology*. Academic Press; 2025:401-403. [doi:10.1016/B978-0-323-90391-2.00016-6](https://doi.org/10.1016/B978-0-323-90391-2.00016-6)

Conference Abstracts

Daniel Y, et al. Synthesis of Chlorin E6 Coated Iron Oxide Nanoparticles for Photodynamic Therapy & Magnetic Resonance Imaging. Annual Biomedical Research Conference for Minority Students, American Society of Microbiology, Phoenix, AZ | 2017

Daniel Y. Nutcracker syndrome: A review of diagnostic and treatment paradigms. Abstract presented at: Brown University Research Symposium, Providence, RI | 2023

Daniel Y, et al. Not a Laughing Matter: When Nitrous Oxide Causes a Functional B12 Deficiency. Abstract Competition & Annual Scientific Meeting, American College of Physicians, Rhode Island Chapter, Warwick, RI | 2024

Daniel Y, et al. Double Trouble: A Dual Presentation of Behçet's Disease and Erythema Multiforme. Presented at: Annual Rheumatology Winter Clinical Symposium, Maui, HI | 2024

Oral Presentations & Posters

Exploring the effects of in-vitro PARP-1 inhibition in neuroblastoma – Fellowship Retreat, University of Pennsylvania, Philadelphia, PA | 2016 (Oral Presentation)

Synthesis of Chlorin E6 Coated Iron Oxide Nanoparticles for Photodynamic Therapy & Magnetic Resonance Imaging – Fellowship Retreat, University of Pennsylvania, Philadelphia, PA | 2017 (Oral Presentation)

Synthesis of Chlorin E6 Coated Iron Oxide Nanoparticles for Photodynamic Therapy & Magnetic Resonance Imaging – Louis Stokes Alliance for Minority Participation Research Symposium, College Park, MD | 2017 (Oral Presentation)

Triad of Terror: Rapidly Progressive Austrian Syndrome in a 62-Year-Old Female – American Medical Association Research Challenge & Poster Symposium, Chicago, IL | 2023 (Poster)

Double Trouble: A Complex Case of Recurrent Ulcers and Skin Lesions – Society of General Internal Medicine Annual Meeting, Boston, MA | 2024 (Poster)

Art & Literary Publications

Daniel, Y. Youth, 2021, Film Photograph, Brown University, Providence, RI. Visual Images, PLEXUS, The Literary Review of The Warren Alpert Medical School. Available at: <https://www.plexusmag.org/copy-of-rocio-olivia-1>

Daniel, Y. Together, 2021, Film Photograph, Brown Med Art Gallery, 3rd Floor, The Warren Alpert Medical School, Brown University, Providence, RI.

Daniel, Y. I Should Call My Mom, 2022, In-Training, Pager Publications. Available at: <https://in-training.org/i-should-call-my-mom-24413>

Daniel, Y. Trafalgar Square, 2022, Film Photograph, Brown University, Providence, RI. Visual Images, PLEXUS, The Literary Review of the Alpert Medical School. Available at: www.plexusmag.org/yonathan-daniel-2

Daniel, Y. Photography Portfolio, 2023, Yonathan Daniel. Available at: www.Ydaniel.com/photography

Prior Employment

- Speechwriter – United States Senate, Washington, D.C. | 2019
- White House Intern – Domestic Policy Council, Washington, D.C. | 2016
- Congressional Intern – United States House of Representatives, Washington, D.C. | 2015
- Teaching Assistant – Organic Chemistry II, Univ. of Maryland College Park, MD | 2015

Leadership & Service

- **House Staff Leadership**

- Internal Medicine Delegate, CIR Union | 2024 – Present
- **Medical Student Leadership & Service**
 - Editor, Plexus Literary Review | 2019 – 2024
 - Senator, Medical Student Senate | 2020 – 2024
 - Volunteer, Brown University Asylum Clinic | 2020 – 2023
 - Volunteer, Rhode Island Free Clinic | 2020 – 2023
- **Campaign Organizer**
 - Andom Ghebregiorgis, NY-16th Congressional Campaign | 2020
 - Delegate Jazz Lewis, Maryland House of Delegates | 2017
- **Beta Theta Pi Fraternity**
 - Chapter President | 2017 – 2018
 - Recruitment Chair | 2016 – 2017
 - Academic Chair | 2015 – 2016

Skills & Hobbies

- Languages: Spanish, Amharic
- Film Photography