

University of Pittsburgh
School of Medicine
CURRICULUM VITAE

BIOGRAPHICAL

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EDUCATION and TRAINING

UNDERGRADUATE

August 2006-May 2008	Wells College, Aurora, NY	Transferred	Chemistry
August 2008-June 2010	University of Denver, CO	B.S.	Chemistry

GRADUATE

August 2013-May 2017	Kansas City University, KC, MO	D.O.
August 2013-May 2017	Rockhurst University, KC, MO	M.B.A.

POSTGRADUATE

July 2017-June 2018	Penn State University, Hershey, PA	Internal Medicine Internship
July 2018-June 2021	Penn State University, Hershey, PA	Neurology Residency
July 2021-June 2022	Georgetown University, DC	MS Fellowship

APPOINTMENTS and POSITIONS

ACADEMIC

August 2022-Present	University of Pittsburgh School of Medicine	Assistant Professor
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NON-ACADEMIC

August 2022-Present	UPMC Neurologist
June 2023-Present	UPMC Co-director, Combined Neuroimmunology Conference

CERTIFICATION and LICENSURE

SPECIALTY CERTIFICATION:

American Board of Psychiatry and Neurology	2021
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MEDICAL LICENSURE:

Virginia # 0102206531	2021
Washington, DC # DO034999	2021
Maryland # H0091462	2021
Pennsylvania # OS022319	2022 – current

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

National MS Society	2018
MS Association of America	2018
American Academy of Neurology	2017
Pennsylvania Medical Society	2023
Pennsylvania Osteopathic Medical Association	2020
American Osteopathic Association	2013
Gold Humanism Honor Society	2016

HONORS

James and Nellie Westlake Scholarship, full-tuition	2006
Henry Wells Scholarship	2006
Opal Huffman Scholarship	2006
CRC Press Freshman Chemistry Award (Wells College)	2007
University of Denver summer research grant (\$5,000)	2008
University of Denver summer research grant (\$5,000)	2009
Cum laude (University of Denver)	2010
Distinction in Chemistry (University of Denver)	2010
Mineral Area Scholarship (Kansas City University)	2015

Gold Humanism Honor Society	2016
Paws Up Award for Excellence in Patient Care	2020
ACTRIMS Scholarship for Young Scientist Summit	2020
Michael Avallone Scholarship for Outstanding Advocacy	2020
Training in Policy Studies Scholarship	2020
ACTRIMS Scholarship for Young Scientist Summit	2021
Resident Research Scholar of the Year	2021
MASTER MS Fellowship, Annenberg Center	2021
CMSC Scholarship	2022
Genentech Investigator Initiated Study	2023

PUBLICATIONS

1. ORIGINAL PEER REVIEWED ARTICLES

Liubchenko GA, **Appleberry HC**, *et. al* "Rheumatoid arthritis is associated with signaling alterations in naturally occurring autoreactive B-lymphocytes." *Journal of Autoimmunity*, 2013.

Liubchenko GA, **Appleberry HC**, *et. al* "Potentially autoreactive naturally occurring transitional T3 B lymphocytes exhibit a unique signaling profile." *Journal of Autoimmunity*, 2012.

2. OTHER PEER REVIEWED PUBLICATIONS

Appleberry HC, Begezda A, *et. al* "Report of a child with febrile status epilepticus and post-COVID Multi-system Inflammatory Syndrome." *Child Neurology Open*, 2021.

3. OTHER NON-PEER REVIEWED PUBLICATIONS

Appleberry, HC and Shin, RK "Multiple Sclerosis Management: Current Clinical Approaches to Disease-Modifying Therapy." *Current Physical Medicine and Rehabilitation Reports*, 2022.

4. PUBLISHED ABSTRACTS

Appleberry, HC and De Jesus, S "An Atypical Case of Respiratory Syncytial Virus (RSV) Associated Encephalitis in an Immunocompetent Patient." *Neurology*, 2021.

PROFESSIONAL ACTIVITIES

TEACHING

Medical Student Teaching:

12/2018 and 6/2019: Shelf review lectures to a group of 25 medical students

2022-2023: Medical student teaching in clinic – 35 half days as of 6/5/2023

Resident Teaching:

2022-2023: Resident teaching in clinic – 20 half days as of 6/5/2023

Lectures

1. 8/2020: Overview of Neuroimmunology lecture. Penn State Hershey Medical Center, Hershey, PA
2. 1/2023: MS and the Eye. UPMC Neurology Residents, Pittsburgh, PA
3. 3/2023: NMO and MOGAD Diagnosis and Treatment. UPMC Neurology Residents, Pittsburgh, PA
4. 5/5/2023: Myelitis and Myelopathy Evaluation and Management of Acute Spinal Cord Dysfunction. UPMC Neurology Residents, Pittsburgh, PA

Fellow Teaching:

2022-2023: Fellow teaching in clinic and reading of optical coherence tomography (OCT) – 50 half days as of 6/5/2023

APP Teaching: 1 half day as of 6/5/2023

Mentoring: 2020-2021: Student Interest Group in Neurology mentor

RESEARCH

Faculty: PI for “Semaphorin 4A as a biomarker for disease progression in multiple sclerosis.” University of Pittsburgh School of Medicine – Genentech Investigator Initiated Non-Interventional Study

Fellowship: sub-investigator for Pharma-sponsored studies, to include phase III studies for BTK inhibitors in progressive and relapsing forms of MS. Georgetown University Medical Center. 2021-2022

Residency: Longitudinal Research Track, Neuroimmunology. Semaphorin 4A as a biomarker for disease progression in multiple sclerosis. Lab of Dr. James Connor, Penn State Health. 2019-2021

Medical School: Development of TDP-43 as a surrogate biomarker development for ALS, FTD and Alzheimer’s Disease. Lab of Dr. Abdulbaki Agbas, Kansas City University. 2013-2017

Research Associate: Conducted immunoassays for multiple pharmaceutical clinical trials, most notably Sanofi. Myriad Rules Based Medicine, Austin, TX. 2012-2013

Professional Research Assistant: Investigated anergy loss in immature B cells in collagen-induced arthritis murine model. Lab of Dr. Taras Lyubchenko, University of Colorado Anschutz Medical Center. 2010-2011

Professional Research Assistant: Monomeric isoform of C-reactive protein and its role in atherosclerosis. Lab of Dr. Scott Reed, University of Colorado Denver. 2010

Undergraduate: P-glycoprotein and its association with tumor multi-drug resistance (honor’s thesis) Lab of Dr. Michelle Knowles of University of Denver. 2008-2010

LIST of CURRENT RESEARCH INTERESTS

Semaphorin 4A as a biomarker in disease progression in multiple sclerosis.
University of Pittsburgh School of Medicine – Genentech Investigator Initiated Non-Interventional Study

Gene therapy for autosomal dominant adult-onset leukodystrophy.
University of Pittsburgh School of Medicine

INVITED SEMINARS AND LECTURESHIPS

Antibody Negative Autoimmune Encephalitis. Neuroradiology Conference, Penn State Hershey Medical Center. Hershey, PA, May 2018

A rare presentation of Neuro-Behcet's Disease. Resident Conference, Penn State Hershey Medical Center. Hershey, PA, October 2019

A rare case of aseptic meningoencephalitis and myelitis secondary to immune checkpoint inhibitor therapy. NIH Consult Rounds, National Institute of Health and Neurological Disorders (NINDS). Bethesda, MD, October 2019

Clinical Approach to CNS Vasculitis. Multidisciplinary Cerebrovascular Conference, Penn State Hershey Medical Center. Hershey, PA, October 2020

A case of post-COVID Multisystem Inflammatory Syndrome in Children (MIS-C) with neurologic complications. Neuroradiology Conference, Penn State Hershey Medical Center. Hershey, PA, November 2020

An Atypical Case of Respiratory Syncytial Virus (RSV) Associated Encephalitis in an Immunocompetent Patient. American Academy of Neurology Annual Meeting, April 2021

Semaphorin 4A as a biomarker of disease progression in Multiple Sclerosis. Translational Brain Research Center, Penn State Hershey Medical Center. Hershey, PA, April 2021

Remyelinating Therapies in Multiple Sclerosis. Neurology Grand Rounds, Penn State Hershey Medical Center. Hershey, PA, June 2021

Reviewed journal article titled, "Longitudinal analysis reveals high prevalence of Epstein-Barr virus associated with multiple sclerosis" by Bjornevik, *et. al.* NIH/Georgetown Conference. Washington, DC, February 2022

Multiple Sclerosis Management: Current Clinical Approaches to Disease-Modifying Therapy. Neurology Grand Rounds, Medstar Georgetown University Hospital. Washington, DC, March 2022

Undiagnosed White Matter Diseases. Neurology Grand Rounds, University of Pittsburgh. Pittsburgh, PA, December 2022

SERVICE

HEALTHCARE POLICY AND ADVOCACY

Marine Corps Marathon for the MS Association of America October 2018 Raised \$1000 for MSSA, 26.2 miles

Neurology on the Hill and Neurology off the Hill Participant, February and August 2019, February 2021, May 2022, March 2023: Selected by the AAN for biannual meetings with Congress regarding neurology patient issues and the downstream effects of legislation: patient access issues, drug pricing, step-therapy protocol, NIH funding

Delegate, Pennsylvania Osteopathic Medical Association, District 5 March 2021-July 2021

Alternate Delegate, Pennsylvania Osteopathic Medical Association, District 8 May 2023 - Present

Training in Policy Studies Fellowship, American Osteopathic Association November 2020-October 2021 Wrote and presented a white paper titled "Patient Access to Home Health Services" to the Pennsylvania Osteopathic Medical Association House of Delegates meeting 7/2021. The white paper was adopted by unanimous vote.

D.O. Day on the Hill Participant March 2021