***Curriculum Vitae***

|  |  |
| --- | --- |
| **Date Prepared:** | 12/31/2023 |
| **Name:** | Benjamin Morris Greenberg |
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| **Work E-Mail:**  | Benjamin.greenberg@utsouthwestern.edu |
|  |  |

**Education**

|  |  |  |  |
| --- | --- | --- | --- |
| Year | Degree(Honors) | Field of Study(Thesis advisor for PhDs) | Institution |
| 1997 | BA | History of Medicine | Johns Hopkins University |
| 1997 | MHS | Microbiology and Immunology | Johns Hopkins School of Public Health |
| 2001 | MD | Medicine | Baylor College of Medicine |

**Postdoctoral Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Titles | Specialty/Discipline(Lab PI for postdoc fellows) | Institution |
| 2002 | Intern | Internal Medicine | Rush St Lukes Presbyterian Hospital |
| 2005 | Resident | Neurology | Johns Hopkins Hospital |
| 2007 | Fellow | Neurovirology (Diane Griffin) | Johns Hopkins School of Public Health |

**Professional Development Training**

|  |  |  |
| --- | --- | --- |
| Year(s) | Course or Program, Degree if any | Institution |
|  |  |  |
|  |  |  |

**Faculty Academic Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Academic Title | Department | Academic Institution |
| 2005-06 | Instructor | Neurology | Johns Hopkins School of Medicine |
| 2006-08 | Assistant Professor | Neurology | Johns Hopkins School of Medicine |
| 2009-13 | Assistant Professor | Neurology | University of Texas Southwestern |
| 2012-13 | Assistant Professor | Pediatrics | University of Texas Southwestern |
| 2013-19 | Associate Professor | Neurology | University of Texas Southwestern |
| 2013-19 | Associate Professor | Pediatrics | University of Texas Southwestern |
| 2019-present | Professor | Neurology | University of Texas Southwestern |
| 2019-present | Professor | Pediatrics | University of Texas Southwestern |

**Appointments at Hospitals/Affiliated Institutions**

|  |
| --- |
| Past |
| Year(s) | Position Title | Department/Division | Institution |
| 2005-08 | Attending | Neurology | Johns Hopkins Bayview Hospital |
| 2005-08 | Attending | Neurology | Johns Hopkins Hospital |
| 2009-14 | Attending | Neurology | St. Paul University Hospital |
| Current |
| Year(s) | Position Title | Department/Division | Institution |
| 2009-present | Attending | Neurology | Zale-Lipshy Hospital |
| 2009-present | Attending | Neurology | Parkland Hospital |
| 2009-present | Attending | Neurology | Clements University Hospital |
| 2009-present | Attending | Neurology | Children’s Hospital |
| 2009-present | Attending | Neurology | Children’s Medical Center Plano |

**Other Professional Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2004-06 | Challenge Walk Medical Director | National MS Society, Maryland Chapter |
| 2004-08 | Fire Surgeon | Baltimore County Fire Department |
| 2009-16 | Founder | Diogenix |
| 2021-present | Founder | GenrAb  |
| 2023-present | Head of Medical | Clene Nanomedicine |

**Current Licensure and Certification**

Licensure

|  |  |
| --- | --- |
| Year(s) | State |
| 2004-10 | Maryland |
| 2009-present | Texas |

**Board and Other Certification**

|  |  |  |
| --- | --- | --- |
| Year(s) | Specialty | Certifying Organization |
| 2006-present | Neurology | American Board of Psychiatry and Neurology |
| 215-present | Rare Neuroimmunologic Disorders | CMSC/Rare Neuroimmunologic Disorders Board |

**Honors and Awards**

|  |  |  |
| --- | --- | --- |
| Year | Name of Honor/Award | Awarding Organization |
| 1997 | Mayor’s Citation | City of Baltimore |
| 2001 | Alpha Omega Alpha Honor Society | Baylor College of Medicine |
| 2001 | Hero of the Heart Compassionate Care | Rush St. Lukes Presbyterian Hospital |
| 2002 | Intern of the Year | Rush St. Lukes Presbyterian Hospital |
| 2004 | Service Award | National Multiple Sclerosis Society |
| 2005 | Resident Travel Award | American Academy of Neurology |
| 2005 | Guy McKhann Resident Teaching Award | Johns Hopkins Department of Neurology |
| 2008 | Frank Ford Teaching Award | Johns Hopkins Department of Neurology |
| 2009 | Physician of Distinction Award | Accelerated Cure Project |
| 2010 | Trephined Cranium Teaching Award | University of Texas Southwestern Department of Neurology |
| 2010 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2011 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2011 | Fred Baskin Young Investigator Research Award | University of Texas Southwestern Department of Neurology |
| 2012 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2013 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2014 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2014 | First Year Medical Student Best Course Award (Course Co-Director | University of Texas Southwestern |
| 2015 | First Year Medical Student Teaching Award | University of Texas Southwestern |
| 2015 | First Year Medical Student Best Course Award (Course Co-Director | University of Texas Southwestern |
| 2015 | Board of Regents Teaching Award | University of Texas |
| 2016 | Academy of Teachers Award | University of Texas Southwestern |
| 2016 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2016 | Best Doctors in Dallas | D Magazine |
| 2017 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2017 | Best Doctors in Dallas | D Magazine |
| 2018 | Best Doctors in Dallas | D Magazine |
| 2019 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2019 | Best Doctors in Dallas | D Magazine |
| 2020 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2020 | Best Doctors in Dallas | D Magazine |
| 2021 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2021 | Best Doctors in Dallas | D Magazine |
| 2022 | Second Year Medical Student Teaching Award | University of Texas Southwestern |
| 2022 | Best Doctors in Dallas | D Magazine |
| 2023 | Best Doctors in Dallas | D Magazine |

**Major Administrative/Leadership Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2005-08 | Residency Selection Committee | Johns Hopkins Department of Neurology |
| 2006-08 | Co-Director, Transverse Myelitis Center | Johns Hopkins Department of Neurology |
| 2007-08 | Director, Encephalitis Center | Johns Hopkins Department of Neurology |
| 2007-08 | Neuroimmunology Fellowship Director | Johns Hopkins Department of Neurology |
| 2009-13 | Deputy Director, Multiple Sclerosis Program | University of Texas Southwestern Department of Neurology |
| 2009-present | Director, Transverse Myelitis and Neuromyelitis Optica Program | University of Texas Southwestern Department of Neurology |
| 2009-present | Director, Pediatric CONQUER Clinic | University of Texas Southwestern Department of Neurology |
| 2010-14 | Medical Education Committee | University of Texas Southwestern Department of Neurology |
| 2013-23 | Director, Neurosciences Translational Research Center | University of Texas Southwestern, O’Donnell Brain Institute |
| 2016-17 | Vice Chair, Ambulatory Affairs | University of Texas Southwestern Department of Neurology |
| 2016-present | Vice Chair, Translational Research | University of Texas Southwestern Department of Neurology |
| 2016-23 | Neuroimmunology Fellowship Director | University of Texas Southwestern Department of Neurology |
| 2017-22 | Neuroimmunology Section Head | University of Texas Southwestern Department of Neurology |
| 2017-21 | Vice Chair, Strategic Initiatives | University of Texas Southwestern Department of Neurology |
| 2020-22 | Behavioral Neurology Search Committee | University of Texas Southwestern Department of Neurology |
| 2020-21 | Neuroimmunology Search Committee | University of Texas Southwestern Department of Neurology |
| 2020-22 | Neurology Research Review Board | University of Texas Southwestern Department of Neurology |
| 2021-present | Sleep Medicine Search Committee Chair | University of Texas Southwestern Department of Neurology |
| 2021-present | Neurology Research Academy | University of Texas Southwestern Department of Neurology |

**Committee Service (***Member, unless noted otherwise)*

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Committee | Institution/Organization |
| University/Department |
| 2019-present | Biorepository Oversight Committee | University of Texas Southwestern |
| 2019 | Clinic Strategic Planning Committee | University of Texas Southwestern |
| 2020 | Clinical Research Advisory Committee | University of Texas Southwestern |
| 2020-present | Institutional Review Board | University of Texas Southwestern |
| 2021-present | Continuing Education Advisory Committee | University of Texas Southwestern |
| 2022-present | Conflict of Interest Committee | University of Texas Southwestern |
| Hospital |
| 2005-07 | Physician Order Entry Committee | Johns Hopkins Hospital |
| 2014-18 | Laboratory Advisory Committee | University of Texas Southwestern |
| 2017-18 | Moncrief Site Governance Committee | University of Texas Southwestern |
| State/Regional |
| 2005-06 | Professional Education Committee Member | National MS Society, Maryland Chapter |
| 2005-06 | Clinical Advisory Committee Member | National MS Society, Maryland Chapter |
| 2006-08 | Professional Advisory Board Co-Chair | National MS Society, Maryland Chapter |
| 2009-17 | Clinical Advisory Committee Chair | National MS Society 5 Star Region |
| 2018-present | Consortium Vice-Chair | University of Texas Health System Biorepository |
| National/International |
| 2005-17 | Scientific Advisory Board Member | Accelerated Cure Project |
| 2008-16 | Advisory Board Member | Guthy Jackson Charitable Foundation for NMO |
| 2010-17 | Biorepository Committee Co-Chair | NIH Office of Rare Diseases |
| 2012-17 | Member | International Pediatric Multiple Sclerosis Study Group |
| 2014-present | Member | Rare Neuroimmunological Disorders Certification Board |
| 2015-20 | Steering Committee Member | PARADIGMS Study |
| 2018-21 | Task Force Member | CDC Acute Flaccid Myelitis |
| 2018-23 | Relapse Adjudication Committee Member | PREVENT Trial |
| 2020-present | Study Steering Committee Member | OLIKOS Study |
| 2021-present | Steering Committee Member | NIH Pediatric NeuroNEXT |
| 2022-present | DSMB Member | ODYSSEY Trial |
| 2022-present | DSMB Member | Abcuro ABC008 for IBM |
| 2024-present | Nominating Committee | ACTRIMS |

**Professional Societies**

|  |  |
| --- | --- |
| Dates | Society Name, member |
| 2000-present | American Academy of Neurology, Fellow |
| 2009-present | Texas Neurological Society, Member |
| 2014-present | American Neurological Association, Fellow |

**Community Engagement**

|  |  |  |
| --- | --- | --- |
| Year(s) | Role, brief description | Organization or institution |
| 2005-present | Medical and Scientific Advisory Board Member | Siegel Rare Neuroimmune Association |

**Educational Activities**

1. Direct Teaching

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Course Name, Rotation or Session Topic | Role | Number of Instruction hours | Primary Learner Audience (number) | Department or Organization |
| Medical and Graduate School (UME) Course Instruction, Small Group Instruction, Clinical Supervision  |
| 2006 | Neurology Core | Lecturer | 10 | Medical Students | Johns Hopkins |
| 2007 | Neurology Core | Lecturer | 10 | Medical Students | Johns Hopkins |
| 2008 | Neurology Core | Lecturer | 10 | Medical Students | Johns Hopkins |
| 2009 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2010 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2011 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2012 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2013 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2014 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2015 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2016 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2017 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2018 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2019 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2020 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2021 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2022 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| 2023 | Neurosciences | Lecturer | 8 | Medical Students | UT Southwestern |
| Graduate Medical Education (GME) Course Instruction, Small Group Instruction, Clinical Supervision |
| 2006 | Anatomy and Physiology | Lecturer | 4 | Graduate Students | Johns Hopkins School of Public Health |
| 2011 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2012 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2013 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2014 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2015 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2016 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2017 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2018 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2019 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2020 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2021 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2022 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| 2023 | Neurosciences | Lecturer | 4 | Graduate Students | UT Southwestern Allied Health |
| Instructor in Continuing Medical Education (CME), Faculty Development, National Educational Symposia |
| 2/25/06 | Multiple Sclerosis: Update 2006 | Lecturer | 2 | Physicians | Baltimore |
| 3/17/07 | New Insights Into MS Neurodegeneration and Neuroprotection | Lecturer | 1 | Physicians | Baltimore |
| 4/27/07 | Rare Neuroimmunologic Diseases Symposium | Lecturer | 5 | Physicians | Baltimore |
| 5/30/07 | Mastering MS: Practical Strategies for Challenging Cases | Lecturer | 2 | Physicians | Baltimore |
| 7/25/07 | New Approaches to Modifying Neurological Disease | Lecturer | 1 | Physicians | Baltimore |
| 9/8/07 | A Multisite Think Tank on the Challenges of Multiple Sclerosis | Director | 4 | Physicians | Philadelphia |
| 9/29/07 | A Multisite Think Tank on the Challenges of Multiple Sclerosis | Director | 4 | Physicians | Dallas |
| 4/26/08 | Current Issues and ongoing Challenges in MS: Neurodegeneration | Director | 4 | Physicians | Baltimore |
| 9/27/08 | Current Issues and ongoing Challenges in MS: Neurodegeneration | Director | 4 | Physicians | Baltimore |
| 3/7/09 | Current Issues and ongoing Challenges in MS: Neurodegeneration | Director | 4 | Physicians | Baltimore |
| 5/1/09 | Emerging Therapeutics: AAN Multiple Sclerosis Update (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/11/10 | Emerging Therapeutics: AAN Multiple Sclerosis Update (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/12/10 | Neuroflash: Multiple Sclerosis Diagnostic Mimics (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/17/10 | Neuromyelitis Optica Update: Evaluating Subacute Myelopathies (AAN) | Lecturer | 1 | Physicians | AAN |
| 9/24/10 | Rare Neuroimmunologic Disorders Symposium | Director | 4 | Physicians | Dallas |
| 4/11/11 | Neuromyelitis Optica Update: Evaluating Subacute Myelopathies (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/15/11 | Emerging Therapeutics: Multiple Sclerosis Update (AAN) | Lecturer | 1 | Physicians | AAN |
| 2/24/12 | CNS Infections: Texas Academy of Physician Assistants | Director | 1 | Advanced Practice Providers | Dallas |
| 5/31/12 | Transverse Myelitis: Approach to Acute Care (CMSC) | Director | 2 | Physicians | CMSC |
| 11/12/12 | Highlights of Presentations from ECTRIMS | Lecturer | 1 | Physicians | Dallas |
| 3/17/13 | MS and Its Masquerades: Making the Diagnosis (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/20/13 | Addressing the Challenges of MS: An Interactive Workshop Series | Lecturer | 1 | Physicians | Dallas |
| 5/30/13 | Assessing the Need to Switch Therapy in Multiple Sclerosis | Lecturer | 1 | Physicians | Dallas |
| 5/31/13 | Neuropsychology in Multiple Sclerosis (CMSC) | Director | 3 | Physicians | CMSC |
| 6/2013 | Patient Centered CME | Director | 3 | Physicians | Dallas |
| 5/3/14 | MS and Its Masquerades: Making the Diagnosis (AAN) | Lecturer | 1 | Physicians | AAN |
| 5/3/14 | Medical Myelopathies (AAN) | Lecturer | 1 | Physicians | AAN |
| 2/22/15 | CNS Infections: Texas Academy of Physician Assistants | Director | 2 | Advanced Practice Providers | Dallas |
| 2/24/15 | Children’s Multidisciplinary Case Conference | Lecturer | 1 | Physicians | Dallas |
| 4/11/15 | Multiple Sclerosis Diagnosis and Treatment | Director | 1 | Physicians | Dallas |
| 4/19/15 | MS and Its Masquerades: Making the Diagnosis (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/21/15 | Medical Myelopathies (AAN) | Lecturer | 1 | Physicians | AAN |
| 6/27/15 | MS Think Tank | Director | 4 | Physicians | Dallas |
| 9/12/15 | Advances in Neurology, Houston Methodist Neurosciences | Lecturer | 1 | Physicians | Houston |
| 11/16/15 | Highlights of Presentations from ECTRIMS | Lecturer | 2 | Physicians | Dallas |
| 4/25/16 | Myelopathies (AAN)  | Director | 3 | Physicians | AAN |
| 11/29/16 | Multiple Sclerosis Update | Director | 3 | Physicians | Dallas |
| 9/23/17 | MS Think Tank: Managing Immunotherapies | Director | 3 | Physicians | Dallas |
| 11/10/17 | Neurosciences for School Based Therapists | Director | 4 | Physicians | Dallas |
| 1/16/18 | Highlights of Presentations from ECTRIMS | Lecturer | 2 | Physicians | Dallas |
| 4/24/17 | Integrating APPs into a Neurology Practice (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/25/17 | Acute Flaccid Myelitis (AAN) | Director | 3 | Physicians | AAN |
| 4/26/17 | Myelopathies (AAN) | Director | 3 | Physicians | AAN |
| 5/6/19 | Myelopathies (AAN) | Director | 3 | Physicians | AAN |
| 11/9/19 | Acute Flaccid Myelitis, Hoag Neurosciences  | Lecturer | 1 | Physicians | San Diego |
| 11/10/19 | Advances in Treatment of Multiple Sclerosis | Lecturer | 1 | Physicians | Dallas |
| 3/29/21 | An Update on COVID-19 and MS: DMTs and COVID Vaccines | Lecturer | 1 | Physicians | Dallas |
| 4/22/21 | Evolving Treatment Paradigms in the Management of MS | Lecturer | 1 | Physicians | Dallas |
| 7/23/21 | Updates on NMO Spectrum Disorder | Director | 2 | Physicians | CMSC |
| 10/28/21 | The Role of Brain Penetrant BTK Inhibitors in MS (CMSC) | Director | 2 | Physicians | CMSC |
| 4/5/22 | Long Term Safety of Satralizumab in NMOSD (AAN) | Lecturer | 1 | Physicians | AAN |
| 4/7/22 | Myelopathies (AAN) | Director | 3 | Physicians | AAN |
| 6/2/22 | MS Treatments on the Horizon (CMSC) | Director | 3 | Physicians | CMSC |
| 7/16/22 | Diagnostic Criteria in Transverse Myelitis (AAN Summer) | Director | 3 | Physicians | AAN Summer  |
| 3/14/23 | Neuromyelitis Optica Update (NANOS) | Lecturer | 1 | Physicians | NANOS |
| 3/16/23 | Shared Decision Making in MS | Lecturer | 1 | Physicians | Webinar |
| 6/14/23 | The Case for Specific Immunotherapy in NMOSD | Lecturer | 1 | Physicians | Webinar |
| 10/25/23 | Multiple Sclerosis Year in Review | Lecturer | 1 | Physicians | Dallas |

2. Curriculum Development

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Course Name or Curriculum Product | Role | Purpose | Primary Learner Audience | Organization or Institution |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

3. Mentoring and Advising

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Mentee Name | Mentee Level/ Program and Institution | Role | Mentee Outcomes, Current Position |
| 2010-12 | Kyle Noll | PhD Candidate/UT Southwestern | Dissertation Committee | Assoc. Professor, Neuropsychology, MD Anderson |
| 2011-12 | Lindsay Horton | Doris Duke Fellow/UT Southwestern | Research Mentor | Assistant Professor, Neurology, UT Southwestern |
| 2012-14 | Allen DeSena | Jim Lubin Fellow/UT Southwestern | Clinical and Research Mentor | Neurologist, Syneos Health |
| 2012-14 | Angela Canas | PhD Candidate/UT Southwestern | Dissertation Committee | Assistant Professor, Psychiatry, UT Southwestern |
| 2013-15 | Benjamin Arellano | PhD Candidate/UT Southwestern | Dissertation Committee | PhD, Stem Cell Technologies |
| 2014-16 | Dilip Challa | PhD Candidate/UT Southwestern | Dissertation Committee | Senior Scientist, Alloy Therapeutics |
| 2016-18 | Ram Narayan | NMSS Fellow | Clinical and Research Mentor | Neurologist, Alegent Creighton Clinic |
| 2016-18 | Cynthia Wang | Jim Lubin Fellow/UT Southwestern | Clinical and Research Mentor | Assistant Professor, Pediatrics, UT Southwestern |
| 2016-17 | Alex Tang | PhD Candidate/UT Southwestern | Dissertation Committee |  |
| 2016-17 | Cole Hague | PhD Candidate/UT Southwestern | Dissertation Committee | PhD, Childrens National |
| 2018-20 | Peter Sguigna | NMSS Fellow | Clinical and Research Mentor | Assistant Professor, Neurology, UT Southwestern |
| 2018-20 | Kyle Blackburn | Jim Lubin Fellow/UT Southwestern | Clinical and Research Mentor | Assistant Professor, Neurology, UT Southwestern |
| 2019-20 | Lauren Tardo | NMSS Fellow | Clinical and Research Mentor | Assistant Professor, Neurology, UT Southwestern |
| 2019-21 | Molly McGetrick | Pediatric Critical Care Fellow | Research Mentor | Instructor, Texas Childrens Hospital |
| 2019-22 | Natasha Hanners | Pediatric Infectious Diseases | K08 Committee Member | Assistant Professor, Pediatrics, UT Southwestern |
| 2020-21 | Sarah Fredrick | NMSS Fellow | Clinical Mentor | Assistant Professor, Neurology, Univ. of Maryland |
| 2022-24 | Linda Nguyen | MS Fellow | Clinical and Research Mentor |  |

4. Learner Assessment Activities or Tool Development

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Course Name or Session Topic | Role | Number of Evaluation Hours | Primary Learner Audience | Organization or Institution |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

5. Educational Administration and Leadership

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Title | Responsibilities  | Time (FTE or hours) | Organization and Program Scope | Outcomes |
| 2013-17 | Neurosciences Course Director | Oversee MS1 Neurosciences course | 10% | UT Southwestern |  |
| 2017-23 | Neuroimmunology Fellowship Director | Oversee fellowship program for MS and Autoimmune Neurology | 10% | UT Southwestern |  |

**Grant Review Activities**

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Review Committee | Organization |
| 2007 | Study Section | Canadian Institute of Health Research |
| 2010 | Multiple Sclerosis Research Study Section | Department of Defense |
| 2012 | Orphan and Rare Disease Registry Study Section | NIH |
| 2012 | K Award Study Section | NINDS |
| 2013 | K Award Study Section | NINDS |
| 2016 | Zika Research Study Section | NINDS |
| 2021 | Study Section | French National Research Program |
| 2021 | Prodromal MS Research Review Section | National Multiple Sclerosis Society |
| 2023 | K Award Study Section | NIH |

**Editorial Activities**

|  |  |
| --- | --- |
| Year(s) | Journal Name |
| Editor/Associate Editor |
| 2014-16 | JAMA Neurology |
| Editorial Board |
| 2019-22 | Neuroimmunology Reports |
|  |  |
| Ad Hoc Reviewer |
| 2010-present | European Neurology |
| 2010-present | Journal of Neurology, Neurosurgery and Psychiatry |
| 2010-present | JAMA Neurology (formerly Archives of Neurology) |
| 2010-present | The Journal of Medicine |
| 2010-present | Neurology |
| 2010-present | Annals of Neurology |
| 2010-present | Journal of Neuroimmunology |
| 2010-present | Multiple Sclerosis Journal |
| 2010-present | Brain |
| 2010-present | Annals of Clinical and Translational Neurology |
| 2010-present | Multiple Sclerosis and Related Disorders |
| 2010-present | Neurology Neuroimmunology and Neuroinflammation |

**Grant Support**

|  |  |
| --- | --- |
| Active | *Grantor:* NIH |
|  | *Title of Project:* IND-enabling studies for Aspertylglucosaminuria (AGU) to support the initiation of an AAV/AGA gene transfer clinical trial |
|  | *Role (Principal Investigator, Co-Investigator):* Co-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only):* 2023-26; $631,697 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* Preclinial Genome Editing for Rare Neurological Disease |
|  | *Role (Principal Investigator, Co-Investigator):* Co-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2023-28; $4,247,547 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* UTSW Clinical Research Site for Network Excellence in Neuroscience Clinical Trials (NeuroNext) |
|  | *Role (Principal Investigator, Co-Investigator):* Principal Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2022-24; $1,620,000 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* Contribution of plasmablasts in the conversion of transverse myelitis to multiple sclerosis |
|  | *Role (Principal Investigator, Co-Investigator):* Co-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2022-24; $2,816,935 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* A multicenter randomized controlled trial of best available therapy versus autologous hematopoietic stem cell transplant for treatment-resistant relapsing remitting multiple sclerosis, BEAT-MS. |
|  | *Role (Principal Investigator, Co-Investigator):* Site Principal-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2021-30; $500,000 |

|  |  |
| --- | --- |
| Past | *Grantor:* NMSS |
|  | *Title of Project:* Institutional Clinician Training Award |
|  | *Role (Principal Investigator, Co-Investigator):* Principal-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2016-21; $584,000 |
|  |  |
|  | *Grantor:* PCORI |
|  | *Title of Project:* CAPTURE Study: Collaborative study of the outcomes in pediatric transverse myelitis |
|  | *Role (Principal Investigator, Co-Investigator):* Principal-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2013-19; $1,500,000 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* CTSA Award |
|  | *Role (Principal Investigator, Co-Investigator):* Co-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2013-17; $500,000 |
|  |  |
|  | *Grantor:* NIH |
|  | *Title of Project:* Genetic and environmental risk factors for pediatric multiple sclerosis |
|  | *Role (Principal Investigator, Co-Investigator):* Co-Investigator |
|  | *Total amount of award (if multi-year) and dates (direct costs only)* 2012-17; $25,000 |

**Clinical Trials Activities**

|  |  |
| --- | --- |
| Present | *Grantor:* Regeneron |
|  | *Title of Project:* Study of COVID-19 Omicron Variant in an Outpatient Population |
|  | *Role:* Principal Investigator |
|  |  |
|  | *Grantor:* Regeneron |
|  | *Title of Project:* Study of COVID-19 Vaccine efficacy in immunosuppressed patient populations |
|  | *Role:* Principal Investigator |
|  |  |
|  | *Grantor:* Anokion |
|  | *Title of Project:* Phase 1 Study of ANK700 in patients with multiple sclerosis |
|  | *Role:* Principal Investigator |
|  |  |
|  | *Grantor:* UTSW/Childrens |
|  | *Title of Project:* Phase 1, First in Human, Intrathecal Lumbar Administration of AAV9/CLN7 for treatment of CLN7 disease |
|  | *Role:* IND Holder and Principal Investigator |
|  |  |
|  | *Grantor:* UTSW and Q Therapeutics |
|  | *Title of Project:* Phase 1, First in Human, study of Q cells in transverse myelitis |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* University of Texas Health System |
|  | *Title of Project:* Biorepository Consortium |
|  | *Role:* Principal Investigator |

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| Past | *Grantor:* CDC |
|  | *Title of Project:* Acute flaccid myelitis surveillance study |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Clene Nanomedicine |
|  | *Title of Project:* REPAIR MS: Phase 1/2 study of CLENE Nanoparticle in multiple sclerosis |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Clene Nanomedicine |
|  | *Title of Project:* REPAIR PD: Phase 1/2 study of CLENE Nanoparticle in Parkinson’s Disease |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Medday |
|  | *Title of Project:* Phase 3 Study of Biotin in Multiple Sclerosis |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Genentech |
|  | *Title of Project:* OBOE Study of Ocrelizumab |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Acorda Therapeutics |
|  | *Title of Project:* Phase 1 study of rHigM22 study of remyelination in multiple sclerosis |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Medimmune |
|  | *Title of Project:* Phase 2 study of Medi551 in NMOSD |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Chugai |
|  | *Title of Project:* Phase 2 study of SA237 in NMOSD |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Acorda Therapeutics |
|  | *Title of Project:* Phase 1 study of rHigM22 study of remyelination in multiple sclerosis |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Amplimmune |
|  | *Title of Project:* AMP-110 Clinical Trial |
|  | *Role:* Steering Committee |
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|  | *Grantor:* Biogen |
|  | *Title of Project:* Stratify 2 Clinical Trial |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Biogen |
|  | *Title of Project:* STRIVE Clinical Trial |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Teva Neuroscience |
|  | *Title of Project:* ATP: Natalizumab Glatiramer Acetate Clinical Trial |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Guthy Jackson NMO Foundation |
|  | *Title of Project:* NMO Biorepository Trial |
|  | *Role:* Principal Investigator |
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|  | *Grantor:* Novartis |
|  | *Title of Project:* FREEDOMS II Phase 3 Clinical Trial |
|  | *Role:* Principal Investigator |

**Invited Lectures**

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| Year(s) | Title | Location |
| International |
| 2005 | Approach to Transverse Myelitis | Apollo Hospital, Dehli India |
| 2007 | Neurologic Complications of HIV | European Neurological Society |
| 2008 | Management of CNS Infections | European Neurological Society |
| 2011 | Future Therapies in Neuromyelitis Optica | Japan NMO Research Conference |
| 2020 | Acute Flaccid Myelitis | British Pediatric Neurological Assoc. |
| 2020 | Acute Flaccid Myelitis | Birkdale Rehabilitation Conference |
| National |
| 2006 | Research Update | National MS Society |
| 2008 | Research Update | National MS Society |
| 2013 | Understanding Repair and Recovery After Non-Traumatic Spinal Cord Injury | Transverse Myelitis Association |
| 2013 | Children with Rare Neuroimmune-Disorders | Transverse Myelitis Association |
| 2013 | Approach to Myelitis | CMSC, Keynote Speaker |
| 2014 | Managing Bowel, Bladder and Sexual Function After Spinal Injury | Transverse Myelitis Association |
| 2014 | Understanding Autoimmunity and Rare Neuroimmune Disorders | Transverse Myelitis Association |
| 2014 | Understanding Pediatric NMO, ADEM and TM | Transverse Myelitis Association |
| 2014 | Myelitis Update | Kennedy Krieger Institute |
| 2014 | NMO: Gaps in Knowledge | Washington DC |
| 2016 | Myelitis Update | Washington University, St. Louis |
| 2016 | Multiple Sclerosis Update | Albuquerque, NM VA  |
| 2016 | Diagnosing TM, NMO and ADEM | Transverse Myelitis Association |
| 2016 | Comprehensive Management of Neuropathic Pain | Transverse Myelitis Association |
| 2016 | Learning About Acute Disseminated Encephalomyelitis | Transverse Myelitis Association |
| 2016 | Understanding Types of Research in ADEM, NMOSD, TM and AFM  | Transverse Myelitis Association |
| 2016 | Understanding Acute Flaccid Myelitis | Transverse Myelitis Association |
| 2017 | Building a Multidisciplinary Care Team for Complex Care | Transverse Myelitis Association |
| 2017 | How to Get the Most Out of Your Appointments | Transverse Myelitis Association |
| 2018 | Complement and NMOSD | Apellis National Complement Meeting |
| 2018 | NMOSD and the Visual System | IMSVISUAL/ACTRIMS |
| 2018 | Anti-MOG Antibody Mediated Disease | Transverse Myelitis Association |
| 2019 | Neuroimmunology of Disorders | Tourette Association of America, Keynote Speaker |
| 2019 | Update on Stem Cell Therapy for Myelitis | Johns Hopkins Myelitis Symposium |
| 2020 | Emerging MS Therapies | CMSC |
| 2020 | Acute Flaccid Myelitis Research | Johns Hopkins Myelitis Symposium |
| 2020 | Safety of NMO Therapies | Guthy Jackson NMO Meeting |
| 2021 | Acute Flaccid Myelitis Acute Care | Steele Conference on Spinal Cord |
| 2021 | COVID and Multiple Sclerosis | NMSS |
| 2022 | Update on Diagnostic Criteria for Transverse Myelitis | Siegel Rare Neuroimmune Association |
| 2022 | COVID and Multiple Sclerosis | NMSS |
| 2022 | Research Registries | Siegel Rare Neuroimmune Association |
| 2023 | Update on MOGAD Research | The MOG Project |
| 2023 | Immune Tolerance Therapies | Guthy Jackson Conference |
| 2023 | Clinical Trials in Gene Therapy | Immunology of Gene Therapy Conference |
| Regional/Local |
| 2005 | Multiple Sclerosis for the Internist | Johns Hopkins Bayview |
| 2006 | Multiple Sclerosis Update | Penninsular Regional Hospital |
| 2006 | CPC Grand Rounds | University of Maryland |
| 2007 | Approach to the Weak Patient | Mercy Hospital, Baltimore, MD |
| 2007 | CPC Grand Rounds | Johns Hopkins Hospital |
| 2007 | Update on Myelitis | Cooper University Hospital |
| 2007 | Multiple Sclerosis Update | Franklin Square Hospital |
| 2008 | S1P Receptors and Multiple Sclerosis | Johns Hopkins Hospital |
| 2008 | Myelitis Update | University of Texas Southwestern |
| 2010 | Pediatric Demyelinating Disease | University of Texas Southwestern |
| 2010 | Multiple Sclerosis Update | Presbyterian Hospital, Dallas, Texas |
| 2010 | The Unknown in Biorepositories | University of Texas Southwestern |
| 2011 | Improving Outcomes in Myelitis  | University of Texas Southwestern |
| 2012 | NMO: A Model of its Kind | University of Texas Southwestern |
| 2012 | NMO: A Model of its Kind | Presbyterian Hospital, Dallas, Texas |
| 2013 | Myelitis Update | University of Texas Southwestern |
| 2014 | Antibody Mediated CNS Disease | Presbyterian Hospital, Dallas, Texas |
| 2017 | Multiple Sclerosis Update | Dallas, Texas VA |
| 2017 | Translational Research | University of Texas Southwestern |
| 2018 | NMO and ADEM Update | Texas Neurological Society  |
| 2018 | Induction versus Escalation Therapy in MS | University of Texas Southwestern |
| 2019 | Myelitis and Acute Flaccid Myelitis | Carol Krussen Conference |
| 2021 | CPC Presentation | Methodist Hospital Dallas, Texas |
| 2021 | NMOSD Update | Texas Neurological Society |
| 2021 | Pediatric CNS Autoimmune Disease | Texas Tech Dept of Pediatrics |
| 2022 | Gene Therapy Trial Considerations | Carol Krussen Conference |
| 2023 | Neuroimmunology for Hospitalists | Parkland Hospital Grand Rounds |
| 2023 | Approach to Clinical Trials | University of Texas Southwestern |

**Technological and Other Scientific Innovations**

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| US 17.995,403 Systems and Methods to Measure Retinal Perfusion (Filed October 2022) |

**Bibliography**

**Peer-Reviewed Publications**

Original Research Articles

|  |  |
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| 2. | Monson, N. , Smith, C. , Greenberg, H. , Plumb, P. , Guzman, A. , Tse, K. , Chen, D. , Zhang, W. , Morgan, M. , Speed, H. , Powell, C. , Batra, S. , Cowell, L. , Christley, S. , Vernino, S. , Blackburn, K. & Greenberg, B. (2023). VH2+ Antigen-Experienced B Cells in the Cerebrospinal Fluid Are Expanded and Enriched in Pediatric Anti-NMDA Receptor Encephalitis. 211, 1332-1339.  |
| 3. | Nguyen, L. , Wang, C. , Conger, D. L. , Sguigna, P. , Singh, S. & Greenberg, B. (2023). Subclinical optic neuritis in pediatric myelin oligodendrocyte glycoprotein antibody-associated disease. 76.  |
| 4. | Nasr, Z. , Schoeps, V. A. , Ziaei, A. , Virupakshaiah, A. , Adams, C. , Casper, T. C. , Waltz, M. , Rose, J. , Rodriguez, M. , Tillema, J. M. , Chitnis, T. , Graves, J. S. , Benson, L. , Rensel, M. , Krupp, L. , Waldman, A. T. , Weinstock-Guttman, B. , Lotze, T. , Greenberg, B. , Aaen, G. , Mar, S. , Schreiner, T. , Hart, J. , Simpson-Yap, S. , Mesaros, C. , Barcellos, L. F. & Waubant, E. (2023). Gene-environment interactions increase the risk of paediatric-onset multiple sclerosis associated with household chemical exposures. 94, 518-525.  |
| 5. | Author Collaboration, U. S. N. O. P. M. S. C. , Gaudioso, C. M. , Mar, S. , Casper, T. C. , Codden, R. , Nguyen, A. , Aaen, G. , Benson, L. , Chitnis, T. , Francisco, C. , Gorman, M. P. , Goyal, M. S. , Graves, J. , Greenberg, B. , Hart, J. , Krupp, L. , Lotze, T. , Narula, S. , Pittock, S. J. , Rensel, M. , Rodriguez, M. , Rose, J. , Schreiner, T. , Tillema, J. M. , Waldman, A. , Weinstock-Guttman, B. , Wheeler, Y. , Waubant, E. & Flanagan, E. P. (2023). MOG and AQP4 Antibodies among Children with Multiple Sclerosis and Controls. 93, 271-284.  |
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| 7. | Ren, J. , Yu, F. F. & Greenberg, B. (2023). ATP line splitting in association with reduced intracellular magnesium and pH. 36.  |
| 8. | Horton, M. K. , Shim, J. E. , Wallace, A. , Graves, J. S. , Aaen, G. , Greenberg, B. , Mar, S. , Wheeler, Y. , Weinstock-Guttman, B. , Waldman, A. , Schreiner, T. , Rodriguez, M. , Tillema, J. M. , Chitnis, T. , Krupp, L. , Casper, T. C. , Rensel, M. , Hart, J. , Quach, H. L. , Quach, D. L. , Schaefer, C. , Waubant, E. & Barcellos, L. F. (2023). Rare and low-frequency coding genetic variants contribute to pediatric-onset multiple sclerosis. 29, 505-511.  |
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| 12. | Tardo, L. M. , McCreary, M. , Majeed, H. & Greenberg, B. (2022). Determining Prevalence of Depression and Covariates of Depression in a Cohort of Multiple Sclerosis Patients. 14.  |
| 13. | Ziaei, A. , Lavery, A. M. , Shao, X. M. , Adams, C. , Casper, T. C. , Rose, J. , Candee, M. , Weinstock-Guttman, B. , Aaen, G. , Harris, Y. , Graves, J. , Benson, L. , Gorman, M. , Rensel, M. , Mar, S. , Lotze, T. , Greenberg, B. , Chitnis, T. , Hart, J. , Waldman, A. T. , Barcellos, L. F. & Waubant, E. (2022). Gene–environment interactions increase the risk of pediatric-onset multiple sclerosis associated with ozone pollution. 28, 1330-1339.  |
| 14. | Joshi, C. , Sivaprakasam, K. , Christley, S. , Ireland, S. , Rivas, J. , Zhang, W. , Sader, D. , Logan, R. , Lambracht-Washington, D. , Rosenberg, R. , Cullum, M. , Hitt, B. , Li, Q. Z. , Barber, R. , Greenberg, B. , Cowell, L. , Zhang, R. , Stowe, A. , Huebinger, R. , Kelley, B. & Monson, N. (2022). CSF-Derived CD4+T-Cell Diversity Is Reduced in Patients With Alzheimer Clinical Syndrome. 9.  |
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