List of Current Research Projects Funded by the National MS Society

Sorted by State/Country

July 2022

Research Department
National Multiple Sclerosis Society
New York, NY

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Introduction
The National MS Society invests in promising research to drive breakthroughs that will stop MS, restore function and end MS forever. We manage an international portfolio of academic and commercial research projects, train the next generation of scientists and MS specialists, and foster global collaboration between MS researchers.

This document lists MS research projects being funded by the National Multiple Sclerosis Society (USA), sorted by state and country, as of July 1, 2022.

Notes:
1) Some listed projects have indications of restricted support that has been provided by donors and other friends of the Society. These are listed in italic typeface directly beneath the project title.
2) This list is not an official record and any errors do not reflect official changes to research award agreements. Some grants listed here have do not have final signed agreements.
TBD = to be determined

Research Priorities: Pathways to Multiple Sclerosis Cures
The National MS Society is focused on achieving breakthroughs to cures for multiple sclerosis. Our progress will be hastened with a roadmap that describes the knowledge gaps, milestones and research priorities that will lead to cures for everyone living with MS. The roadmap was developed in consultation with scientific experts, health care providers and people affected by MS. We believe the Pathways to Cures Roadmap will inspire the alignment of global resources on the most pressing questions in MS research and accelerate scientific breakthroughs that lead to cures for everyone living with MS.

The Roadmap includes three Pathways: STOPPING MS disease activity, RESTORING function by reversing damage and symptoms, and ENDING MS by preventing new cases. Research proposals should address critical knowledge gaps in our understanding of the roadmap. Many gaps apply to more than one pathway.

Goal 1: STOP pathway -- No more disease activity
Stopping MS is defined as achieving a state of no new disease activity, no worsening of daily living or quality of life, and no change in disease manifestations or clinical activity in people living with either relapsing or progressive forms of MS. Understanding disease heterogeneity across diverse populations of people with all forms of MS over time is important to stopping disease activity and protecting the central nervous system from further assault, and to create a permissive environment for myelin repair and other restoration efforts.

Target areas include Early Detection: Reduce or eliminate the impact of MS before neurological deficits accumulate in an individual with MS, and Precision Medicine: Achieve no worsening of daily living or quality of life, and no change in disease manifestations, for each individual with MS.

Goal 2: RESTORE Pathway -- reverse symptoms, and recover function to enable full participation in society
MS can result in many different symptoms, including vision loss, pain, fatigue, sensory loss, impaired coordination, mobility, and cognitive and mood changes. Symptom severity and duration varies from person to person. Historically, rehabilitation aims to improve symptoms, with medical management
of the disease kept separate. There is data supporting the idea that restoration of function, not only symptom management, is possible in MS.

Target areas include **Regeneration**: Improve or enhance tissue repair/regeneration to reverse or slow MS progression and improve symptoms, and **Restoration of Activity**: Advance implementation of rehabilitation and symptom management strategies to restore function, reverse symptoms and enhance quality of life.

**Goal 3: END Pathway -- No new cases of MS (prevention)**
Ending MS is defined as no new cases of MS. Preventing new cases of MS will require population-based public health initiatives and individual-based interventions. While efforts will be made to advance both targets, a focus on Secondary Prevention could potentially lead to the development of approaches with benefits for people living with MS in the near term.

Target areas include **Primary prevention**: To prevent MS before it occurs by limiting exposure to MS risk factors in the general population, and **Secondary prevention**: To reduce or eliminate the impact of MS before onset of signs/symptoms by identifying pre-clinical MS in the high-risk population.

**About Our Research Projects**
The Society offers a spectrum of funding opportunities and resources to support MS investigators at virtually every stage of their careers. These include:

- **Career Transition Fellowships** – awards up to five years to facilitate the advancement of promising young investigators into full faculty positions
- **Collaborative MS Research Center Awards** – 5-year awards to help stimulate creativity and interaction among investigators working within and outside MS fields
- **Fast Forward** – Commercial and academic partnerships aimed at specific strategies to drive the discovery of new therapies for people with MS
- **Harry Weaver Neuroscience Scholarships** – special five-year projects by promising young investigators just starting their careers as independent researchers
- **Health Care Delivery & Policy Contracts** – initiated by the Society and awarded on a competitive basis to investigators studying subjects identified as mission priorities
- **International Progressive MS Alliance** – projects jointly funded by Alliance members; [Read more](#)
- **Mentor-based Postdoctoral Rehabilitation Fellowships** – to enhance research into MS rehabilitation to improve quality of life
- **NMSS/American Brain Foundation Clinician Scientist Development Award** -- to train physicians in MS clinical research
- **Pilot Research Grants** – aimed at exploring new, untested ideas and attracting new researchers to investigate MS (this program currently on hold)
- **Postdoctoral Fellowships** – research projects by young investigators working under the mentorship of senior scientists, to provide training in MS research
- **Research Grants** – full grants for basic, clinical and rehabilitation research
- **RFA** – research projects targeted to specific Pathways to Cures priorities
- **Strategic Initiatives** – special projects that focus on core resources or other important unmet research needs
- **Sylvia Lawry Physician Fellowships** – young doctors working under the mentorship of seasoned clinicians, to provide training and experience in conducting clinical trials in people with MS
**About Research “Categories”**

This list includes the category, or research discipline, within which a specific project belongs.

- **Biochem./Biophysics** - Understanding basic cell processes to enhance knowledge of factors underlying MS
- **Biology of Glia/Myelin** - Investigating how myelin is formed and the role played by oligodendrocytes and other nervous system support cells in MS
- **CNS Repair** - Searching for ways to stop and reverse tissue damage in MS
- **Diagnostic Methods** - Investigating ways to improve the detection and diagnosis of MS
- **Epidemiology** - Investigating who gets MS in search of the cause and risk/protective factors
- **Health Care Delivery/Policy** - Studying how people with MS utilize health-care services and how health-care delivery can be improved
- **Human Genetics** - Searching for genes that make people susceptible to MS or otherwise influence the disease, for clues to its cause, prevention and better treatment
- **Human Therapy Trials/Management of MS** - Investigations into treatments for all forms of MS, and training physicians in MS clinical research and trials
- **Immunology** - Exploring the role of the immune system in the development and progression of MS to find ways to stop the immune attack on nervous tissues
- **Infectious Triggers** - Examining the possibility that viruses or bacteria could act as disease triggers in MS
- **Measuring MS Disease Activity** - Using sophisticated tools to track MS activity over time
- **Neuropathology** - Exploring how nerve fibers and cells are damaged during the course of MS
- **Neuropharmacology** - Studying how potential therapies impact the nervous system
- **Neurophysiology** - Exploring how nerve fibers and cells work normally and in the disease state
- **Physiology** - Understanding how MS may impact functions of the body
- **Preclinical Drug Development** - Laboratory research to collect data needed before an experimental therapy can be tested in people
- **Psychosocial Aspects of MS** - Understanding how MS affects cognitive functioning and other aspects of quality of life and wellness
- **Rehabilitation** - Seeking ways to maximize physical and mental abilities and reduce symptoms and increase wellbeing
- **Tissue/DNA Banks** - Shared resource of tissues and DNA banks that accumulate and store specimens for use by MS investigators
Projects by Location – click on active links to jump to section

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WITHIN THE UNITED STATES

ALABAMA
Donald Lein, PT, PhD
University of Alabama at Birmingham
Birmingham, Alabama
Award: Strategic Initiatives
Term: 11/1/2021-9/30/2022
“Project BIPAMS: Behavioral Intervention for increasing Physical Activity in MS” University of Alabama, Birmingham researchers are testing an internet-based behavioral intervention with people with MS to increase their physical activity and alleviate symptoms.

David Morris, PT, PhD
University of Alabama at Birmingham
Birmingham, Alabama
Award: Strategic Initiatives
Term: 11/1/2021-9/30/2023
“When Supplemental Funding for MSSC Feinstein Study: Improving Cognition In People With Progressive Multiple Sclerosis: A Multi-Arm, Randomized, Blinded, Sham-Controlled Trial Of Cognitive Rehabilitation And Aerobic Exercise” Supplemental funding to support additional imaging to detect brain plasticity for an international trial comparing the benefits of exercise and cognitive rehabilitation in people with MS and cognitive impairment.

ARIZONA
Richard Dortch, PhD
St. Joseph's Hospital and Medical Center, Barrow Neurological Institute
Phoenix, Arizona
Award: Research Grants
Term: 5/1/2022-4/30/2025
“Turnkey MRI Biomarkers of Myelin Repair” Barrow Neurological Institute researchers are developing a more sensitive and specific method of measuring nerve-insulating myelin and its repair using MRI.

CALIFORNIA
Lisa Barcellos, PhD, MPH
University of California, Berkeley
Berkeley, California
Award: Research Grants
Term: 4/1/2020-3/31/2023
“Identification of Genetic Contributions to Pediatric-Onset MS Using a Multi-Omics Approach” UC Berkeley scientists are studying pediatric MS for insights into the genes and other factors that determine a person's risk for developing MS.

Christina Azevedo, MD, MPH
University of Southern California
Los Angeles, California
Award: Research Grants
Term: 10/1/2018-9/30/2022
“Disentangling MS-Specific Brain Atrophy from Normal Aging” Researchers at the University of Southern California are identifying a reliable MRI marker that could be used to screen potential therapies for progressive forms of MS.
Christina Azevedo, MD, MPH
University of Southern California
Los Angeles, California
Award: Harry Weaver Scholar Awards
Term: 7/1/2021-6/30/2026
“Understanding Mechanisms of Deep Grey Matter Injury Using MRI in Patients with MS”
Researchers at the University of Southern California are using advanced imaging techniques to better understand the damage that occurs in MS for clues to stopping it.

Marwa Kaisey, MD
Cedars-Sinai Medical Center
Los Angeles, California
Award: RFA
Term: 10/1/2021-9/30/2023
“Blood Biomarkers for Early Detection of Multiple Sclerosis” Cedars-Sinai researchers are searching for a marker in the blood that could help diagnose MS earlier, which may enable better treatment outcomes.

Eve Kelland, PhD
University of Southern California
Los Angeles, California
Award: Research Grants
Term: 4/1/2017-12/31/2022
“Assessment of the neuroprotective activity of angiotensin 1-7 and its potential role in demyelinating disease” Researchers at the University of Southern California are exploring whether a drug can be repurposed to protect myelin-making cells (oligodendrocytes) from death in MS models.

Pascal Sati, PhD
Cedars-Sinai Medical Center
Los Angeles, California
Award: Research Grants
Term: 5/1/2022-4/30/2025
“Evaluation of Paramagnetic Rim Lesions for Early and Precise Detection of Multiple Sclerosis” A team at Cedars-Sinai Medical Center is evaluating MRI methods to more accurately diagnose MS.

James Waschek, PhD
University of California, Los Angeles
Los Angeles, California
Award: Research Grants
Term: 10/1/2019-9/30/2022
“Preservation of axon integrity by neural PACAP/PAC1 signaling in a chronic EAE model” A team at UCLA is testing a novel approach for protecting the nervous system from damage in MS.

Seema Tiwari-Woodruff, PhD
University of California, Riverside
Riverside, California
Award: Fast Forward
Term: 7/15/2020-7/15/2023
“Remyelination and Immunomodulation with analogues of Chloroindazole” Research performed at the University of California, Riverside is focused on the role of Estrogen Receptor beta (ERβ) selective compounds on promoting remyelination in MS.
Seema Tiwari-Woodruff, PhD
University of California, Riverside
Riverside, California
Award: Research Grants
Term: 10/1/2019-9/30/2023
“Reprogramming proinflammatory responses to increase CXCL1 levels and axon remyelination in EAE” University of California researchers are determining how compounds that connect with estrogen docking sites work to promote repair of nerve-insulating myelin.

Seema Tiwari-Woodruff, PhD
University of California, Riverside
Riverside, California
Award: Research Grants
Term: 5/1/2022-4/30/2025
“Purkinje Neuron Mitochondrial Dynamics in the Demyelinating Cerebellum” Researchers at the University of California, Riverside are studying how inflammation affects energy sources of nerve cells and testing drugs in mice to find possible solutions.

Valerie Block, DSc, PT
University of California, San Francisco
San Francisco, California
Award: Career Transition Fellowships
Term: 7/1/2021-6/30/2026
“Moving MS bladder dysfunction into the 21st Century: developing novel and accessible ways to treat, predict and prevent dysfunction in the home” A UCSF team is developing a solution for bladder problems in people with MS.

Riley Bove, MD
University of California, San Francisco
San Francisco, California
Award: Harry Weaver Scholar Awards
Term: 7/1/2020-6/30/2025
“Trials for remyelination in MS: from bench to bedside to home” UCSF researchers are testing a novel molecule that may repair myelin in women with MS ages 45-60, using a home-based trial that employs digital tools to measure improvements during the study.

Myriam Chaumeil, PhD
University of California, San Francisco
San Francisco, California
Award: Research Grants
Term: 10/1/2017-9/30/2022
“MR metabolic imaging of Multiple Sclerosis” Researchers at the University of California, San Francisco are developing an imaging method to assess inflammation in the brain to develop new approaches to stopping MS.
Sasha Gupta, MD  
University of California, San Francisco  Pathway to Cures: Stop  
San Francisco, California  Category: Preclinical Drug Development  
Award: Clinician Scientist Development Awards  Approx. Funding: $136,408  
Term: 7/1/2019-6/30/2023  
“Use of anti-CD19 CAR-T cells in treatment of CNS autoimmune demyelinating disease in mouse model” A UCSF team is testing a therapy used to target immune B cells in cancer for clues to whether this treatment can slow or prevent disease progression in MS lab models.

Wan-Yu Hsu, OTR, PhD  
University of California, San Francisco  Pathway to Cures: Restore  
San Francisco, California  Category: Rehabilitation  
Award: Postdoctoral Fellowships  Approx. Funding: $209,702  
Term: 7/1/2020-6/30/2023  
“Effects of non-invasive brain stimulation on cognitive function in patients with multiple sclerosis” UCSF researchers are investigating the potential benefits of non-invasive brain stimulation, called transcranial alternating current stimulation, to treat cognitive deficits in people with MS.

Qin Ma, PhD  
University of California, San Francisco  Pathway to Cures: Stop  
San Francisco, California  Category: Immunology  
Award: Postdoctoral Fellowships  Approx. Funding: $215,095  
Term: 7/1/2022-6/30/2025  
“Integrated B cells epigenetic and transcriptome analysis in multiple sclerosis” UCSF researchers are investigating genetic changes in immune B cells from people with MS compared to people without MS for clues to stopping MS.

Carson Moseley, MD, PhD  
University of California, San Francisco  Pathway to Cures: Stop  
San Francisco, California  Category: Immunology  
Award: Clinician Scientist Development Awards  Approx. Funding: $222,114  
Term: 7/1/2022-6/30/2025  
“Mechanistic studies of MOG-specific CD4+ T cell differentiation in MOGAD” A team at the University of California, San Francisco is investigating the role of immune T cells and B cells and their interaction in attacks on myelin.

Alyssa Nylander, MD, PhD  
University of California, San Francisco  Pathway to Cures: Restore  
San Francisco, California  Category: CNS Repair  
Award: Clinician Scientist Development Awards  Approx. Funding: $150,445  
Term: 7/1/2022-6/30/2024  
“Cognition as a meaningful, quantitative outcome for myelin repair: establishing a translational approach for advancing from preclinical assessments to clinical trials” UCSF researchers are exploring the relationship between myelin repair and cognitive ability in people with MS and mouse models of the disease.
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**Frederike Oertel, MD**

**University of California, San Francisco**

**Award:** Postdoctoral Fellowships

**Term:** 7/1/2023-6/30/2024

**“Dissecting selective vulnerability of neurons and axons using the afferent visual system in animal models of demyelination and inflammation”** UCSF Researchers are exploring why some nerve cells are more susceptible to damage in MS, for clues to preventing MS progression.

**Jorge Oksenberg, PhD**

**University of California, San Francisco**

**Award:** Research Grants

**Term:** 10/1/2019-9/30/2023

**“The role of Ataxin1 in autoimmune demyelination”** A team at UCSF is seeking to understand the contribution of a gene known as “ATXN1” to MS risk and clinical course.

**Jorge Oksenberg, PhD**

**University of California, San Francisco**

**Award:** RFA

**Term:** 10/1/2021-9/30/2023

**“Integration of polygenic risk scores with non-genetic risk factors to improve risk prediction in MS”** UCSF scientists are combining genetic profiles with demographic and environmental variables to identify people with elevated risk for developing MS.

**Jorge Oksenberg, PhD**

**University of California, San Francisco**

**Award:** Strategic Initiatives

**Term:** 10/1/2020-9/30/2023

**“Establishment of a core DNA repository for multiple sclerosis”** Researchers at the University of California, San Francisco are maintaining and enhancing a blood biospecimen bank as a shared resource to identify genetic variants and other factors that contribute to risk and genetic susceptibility in MS

**Joseph Sabatino, MD, PhD**

**University of California, San Francisco**

**Award:** Research Grants

**Term:** 7/1/2019-6/30/2023

**“Characterization of myelin-reactive CD8+ T cells in Multiple Sclerosis”** UCSF researchers are analyzing immune cell types in blood samples from people with MS and other neurologic diseases to determine if unique cell populations drive the immune response in MS.

**Joseph Sabatino, MD, PhD**

**University of California, San Francisco**

**Award:** Research Grants

**Term:** 5/1/2022-4/30/2025

**“Antigen specificity and cross-reactivity of clonally expanded CD8+ T cells in multiple sclerosis”** A team at the University of California, San Francisco is determining the targets recognized by immune cells in the spinal fluid of people with MS for clues to what triggers MS.
Milos Simic, PhD
University of California, San Francisco Pathway to Cures: Stop
San Francisco, California Category: Preclinical Drug Development
Award: Postdoctoral Fellowships Approx. Funding: $196,309
Term: 7/1/2020-6/30/2023
“Development of cellular immunotherapies for multiple sclerosis” A UCSF team engineering immune cells as a strategy to deliver a payload to the nervous system to decrease damaging immune activity and provide healing growth factors.

Elif Sozmen, MD, PhD
University of California, San Francisco Pathway to Cures: Stop
San Francisco, California Category: Immunology
Award: Clinician Scientist Development Awards Approx. Funding: $222,856
Term: 11/1/2021-6/30/2024
“Study the Role of Fibrinogen in Autoimmune Responses in Multiple Sclerosis” UCSF researchers are exploring a therapeutic strategy targeting fibrinogen, a protein associated with damage in MS. Paid by the Kenrose Kitchen Table Foundation and J. David Power, III

Emmanuelle Waubant, MD, PhD
University of California, San Francisco Pathway to Cures: Stop
San Francisco, California Category: Epidemiology
Award: Research Grants Approx. Funding: $1,167,727
Term: 10/1/2017-9/30/2022
“Diet and relapse risk in pediatric multiple sclerosis (MS)” Investigators at University of California, San Francisco are leading the Network of Pediatric MS Centers in a study of how kids’ diets impact MS relapses and progression.

Michael Wilson, MD
University of California, San Francisco Pathway to Cures: End
San Francisco, California Category: Immunology
Award: RFA Approx. Funding: $310,313
Term: 10/1/2021-9/30/2023
“Risk Factors for Preclinical MS: The ENGEMS Cohort (Environmental and Genetic Risks for MS)” UCSF researchers are developing profiles of early exposures to infectious agents such as viruses to understand whether they play a role in triggering MS later.

Neda Sattarnezhad Oskouei, MD
Stanford University Pathway to Cures: Stop
Stanford, California Category: Human Therapy Trials/Management of MS
Award: Sylvia Lawry Physician Fellowships Approx. Funding: $130,400
Term: 7/1/2021-6/30/2023
“Neuroimmunology and Multiple Sclerosis Fellowship with Training in Epidemiology and Clinical Research” A promising doctor at Stanford University will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.
J. Bradley Zuchero, PhD
Stanford University
Stanford, California
Award: Harry Weaver Scholar Awards
Term: 7/1/2018-6/30/2023
“How does the actin cytoskeleton control myelination and remyelination?” Stanford University researchers are investigating how scaffold-like structures inside cells change during the formation of myelin, for clues to stimulating myelin repair in MS.

COLORADO
John Corboy, MD
University of Colorado Denver
Denver, Colorado
Award: Strategic Initiatives
Term: 10/1/2016-9/30/2022
“Discontinuation of Disease Modifying Therapies (DMTs) in Multiple Sclerosis (MS) – co-funding with Patient Centered Outcome Research Institute (PCORI)” A trial to determine if and when MS therapies should be discontinued.

John Corboy, MD
University of Colorado Denver
Denver, Colorado
Award: Strategic Initiatives
Term: 10/1/2020-9/30/2022
“Rocky Mountain MS Center Tissue Bank” Maintaining a tissue bank of specimens from people with MS for use in research.

Gustavo Della Flora Nunes, PhD
University of Colorado Denver
Denver, Colorado
Award: Postdoctoral Fellowships
Term: 7/1/2022-6/30/2025
“The role of remyelination in restoration of neural function and motor behavior” University of Colorado researchers are investigating whether the repair of nerve-insulating myelin leads to recovery of physical functions.

Ethan Hughes, PhD
University of Colorado Denver
Denver, Colorado
Award: Research Grants
Term: 10/1/2017-9/30/2022
“Mechanisms and Dynamics of Cortical Remyelination” Researchers at the University of Colorado are investigating methods to improve and visualize repair of nerve-insulating myelin, ultimately to restore function for people with MS.
Funded in part by a private foundation
Wendy Macklin, PhD
University of Colorado Denver
Denver, Colorado
Award: Research Grants
Term: 5/1/2022-4/30/2025
**“Impact of recombinant MS antibodies on remyelination”**
University of Colorado scientists are investigating the role of antibodies that may block myelin repair in people with MS.

Teri Schreiner, MD, MPH
University of Colorado Denver
Denver, Colorado
Award: RFA
Term: 10/1/2021-9/30/2023
**“Detection and Risk in Earliest MS”**
University of Colorado researchers are examining close family members of people with MS in search of early evidence and risk factors that could be combined to predict the future onset of MS.

Brett Fling, PhD
Colorado State University
Fort Collins, Colorado
Award: Harry Weaver Scholar Awards
Term: 7/1/2020-6/30/2025
**“Split-belt treadmill training in the lab and sensory cueing in the real world to reduce limb asymmetries and improve gait”**
Colorado State specialists are studying whether a rehabilitation program that specifically addresses asymmetries that may exist between legs can improve walking in people with MS.

**CONNECTICUT**

Stephen Crocker, PhD
University of Connecticut Health Center
Farmington, Connecticut
Award: Research Grants
Term: 10/1/2018-9/30/2022
**“Cellular Senescence in Neural Progenitor Cells Limits CNS Remyelination”**
University of Connecticut investigators are exploring the reasons why repair of nerve-insulating myelin in MS can fail, and seeking ways to reverse the problem to restore function.

Joel Pachter, PhD
University of Connecticut Health Center
Farmington, Connecticut
Award: Research Grants
Term: 10/1/2017-9/30/2022
**“Extracellular vesicles and MSCs as novel tools to aid in the diagnosis and treatment of secondary progressive disease”**
Investigators are the University of Connecticut Health Center are exploring the therapeutic potential of stem cells and a novel method of tracking the course of secondary progressive MS in mice.
Elizabeth Gromisch, PhD
Mount Sinai Rehabilitation Hospital
Hartford, Connecticut
Award: Harry Weaver Scholar Awards
Term: 7/1/2021-6/30/2026
“Development and Feasibility of a Fatigue Self-Management mHealth Program for Persons with Multiple Sclerosis” Researchers at Mount Sinai Rehabilitation Hospital are testing a program that may reduce the devastating effects of MS-related fatigue.

Oksana Goroshchuk, MD, PhD
Yale University
New Haven, Connecticut
Award: Postdoctoral Fellowships
Term: 7/1/2022-6/30/2025
“Sex differences in multiple sclerosis” A Yale team is researching changes to immune cells related to male and female sex hormones and genetic differences to understand sex differences in MS.

Kevan Herold, MD
Yale University
New Haven, Connecticut
Award: Strategic Initiatives
Term: 2/1/2021-1/31/2023
“Analysis of antigen specific T cells in response to immune therapies in MS and T1D” Exploring how therapies for MS and Type 1 diabetes change immune cells and searching for blood markers to track disease development.

Naila Makhani, MD, MPH
Yale University
New Haven, Connecticut
Award: Harry Weaver Scholar Awards
Term: 7/1/2023-6/30/2028
“Biomarkers Associated with Multiple Sclerosis in Children with Radiologically Isolated Syndrome” A team at Yale University is investigating which children with unexpected abnormalities on brain scans to better predict who are most likely to develop MS.

David Pitt, MD
Yale University
New Haven, Connecticut
Award: Strategic Initiatives
Term: 10/1/2020-9/30/2022
“National Multiple Sclerosis Tissue Repository Network (Award 2 of 3)” Developing and maintaining a tissue bank of specimens from people with MS for use in research.
Soumya Yandamuri, PhD
Yale University
New Haven, Connecticut
Award: Postdoctoral Fellowships
Term: 7/1/2021-6/30/2024
“Isolation and characterization of myelin oligodendrocyte glycoprotein monoclonal antibodies”
Researchers at Yale are exploring a mechanism for the damage that occurs to nerve-insulating myelin in MS.

**DISTRICT OF COLUMBIA**
Katrina Adams, PhD
The Children’s National Medical Center
Washington, District of Columbia
Award: Career Transition Fellowships
Term: 7/1/2021-6/30/2026
“Elucidating molecular mechanisms of neural stem cell-derived gliogenesis in remyelination”
Researchers at Children’s National Hospital are exploring how myelin-making cells derived from stem cells might be used to repair myelin in MS models.

Jeffrey Huang, PhD
Georgetown University
Washington, District of Columbia
Award: Harry Weaver Scholar Awards
Term: 7/1/2019-6/30/2024
“Amino acid induced microglia/macrophage-OPC crosstalk in CNS remyelination” A Georgetown team is exploring the role of a specific molecule that appears to be very active when myelin damage occurs, for clues to developing a strategy that curtails its activity and promotes myelin repair.

*Funded in part by the Al Otaiba Family*

**FLORIDA**
Ashley Beecham, PhD
University of Miami
Coral Gables, Florida
Award: Postdoctoral Fellowships
Term: 7/1/2021-6/30/2023
“Utilizing a multi-omics approach to identify genetic contributors to multiple sclerosis in a multi-ethnic population of Hispanics and African Americans” Researchers at the University of Miami are identifying genes that contribute to making Black Americans and Hispanic/Latinx people susceptible to MS.

John Ciotti, MD
University of South Florida
Tampa, Florida
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2020-TBD
“Sylvia Lawry Physician Fellowship” A promising doctor will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.
GEORGIA
Deborah Backus, PT, PhD
Shepherd Center
Atlanta, Georgia
Award: Strategic Initiatives
Term: 7/1/2019-1/31/2023
“Comparative Effectiveness of an Exercise Intervention Delivered via Telerehabilitation and Conventional Mode of Delivery” The Society is supporting an extension to measure results of a clinical trial at seven centers, funded by PCORI, to compare the effectiveness of a supervised exercise program done at home or in person in people with MS.

Feng Yang, PhD
Georgia State University
Atlanta, Georgia
Award: Pilot Research Grants
Term: 10/1/2019-9/30/2022
“Adaptive motor learning of fall resistance skills through slip exposure in multiple sclerosis” Georgia State researchers are testing whether training people with MS with controlled falling experiences can build skills around how to react against fall situations to prevent them.

ILLINOIS
Chung-Yi Chiu, PhD
University of Illinois at Urbana-Champaign
Champaign, Illinois
Award: Research Grants
Term: 4/1/2018-3/31/2023
“Developing A Person-centered Internet-based Health Action Process Approach to Promoting Physical Activity in People with Multiple Sclerosis” Researchers at the University of Illinois are testing a program aimed at increasing physical activity among people with MS to promote healthier lifestyles.

Funded with support from the Illinois Lottery

Andrew Steelman, PhD
University of Illinois at Urbana-Champaign
Champaign, Illinois
Award: Research Grants
Term: 4/1/2019-3/31/2023
“Upper-respiratory infection, glial activation and disease exacerbation” Researchers at the University of Illinois are exploring how upper respiratory infections may trigger MS attacks, by studying immune reactions to infection in mice with an MS-like disease.

Funded with support from the Illinois Lottery

Charles Abrams, MD
University of Illinois at Chicago
Chicago, Illinois
Award: Research Grants
Term: 10/1/2019-9/30/2022
“Role of Connexin 47 in oligodendrocytes” University of Illinois researchers are developing a new model for studying strategies for reducing MS severity.

Funded with support from the Illinois Lottery
Douglas Feinstein, PhD
University of Illinois at Chicago
Chicago, Illinois
Award: Research Grants
Term: 5/1/2022-4/30/2025
“Accelerating remyelination with lanthionine ketimine” A team at the University of Illinois at Chicago is testing a compound in mice for its potential for increasing myelin repair in people with MS.
*Funded with support from the Illinois Lottery*

Robert Motl, PhD
University of Illinois at Chicago
Chicago, Illinois
Award: Collaborative Research Center Awards
Term: 5/1/2022-4/30/2025
“Healthy Aging through LifesTyle in Multiple Sclerosis: The HALT MS Research Center” Researchers have joined together to stimulate interdisciplinary research on lifestyle and wellness for healthy aging in MS.

Robert Motl, PhD
University of Illinois at Chicago
Chicago, Illinois
Award: Mentor-Based Postdoctoral Fellowships
Term: 11/1/2021-3/31/2026
“Training in Physical Activity Promotion for Multiple Sclerosis” Rehabilitation researchers have received funding to train promising rehabilitation professionals to conduct MS rehabilitation research.
*Paid by the Marilyn Hilton MS Research Fund*

Yanan Chen, MD, PhD
Northwestern University
Evanston, Illinois
Award: Career Transition Fellowships
Term: 7/1/2021-6/30/2026
“Enhancing the unfolded protein response as a protective therapy for multiple sclerosis” Northwestern scientists are exploring a novel strategy for protecting myelin-making cells and promoting myelin preservation and repair in MS.
*Funded with support from the Illinois Lottery*

Dominique Kinnett-Hopkins, PhD
Northwestern University
Evanston, Illinois
Award: Postdoctoral Fellowships
Term: 7/1/2019-12/31/2022
“Disease characteristics and healthcare utilization patterns in advantaged and disadvantaged patients with multiple sclerosis” Researchers at Northwestern are examining how people with MS access healthcare and if residing in a disadvantaged area, racial identity, and distance to medical services impact their use of the healthcare system.
Booki Min, D.V.M., PhD
Northwestern University
Evanston, Illinois
Award: Research Grants
Term: 9/1/2020-3/31/2023
“The role of Foxp3+ regulatory T cells during glucocorticoid treatment of autoimmunity”
Northwestern University researchers are exploring how high-dose steroids to treat acute MS attacks influence the activity of immune cells and how this approach to reducing inflammation may be improved.
Paid by a gift from the Kaufer Family and with support from the Illinois Lottery

Brian Popko, PhD
Northwestern University
Evanston, Illinois
Award: Research Grants
Term: 1/1/2020-12/31/2022
“ZFP24 Control of the myelination program of oligodendrocytes” University of Chicago scientists are exploring molecules that may play a key role in the development and function of myelin-making cells, for clues to promoting myelin repair in MS.

KANSAS
Jacob Sosnoff, PhD
University of Kansas Medical Center
Kansas City, Kansas
Award: Mentor-Based Postdoctoral Fellowships
Term: 2/15/2021-6/30/2024
“Cognitive Motor Interference Rehabilitation in Multiple Sclerosis” Experienced mentors/researchers at the University of Illinois Urbana-Champaign are training promising rehabilitation professionals to conduct MS rehabilitation research.

KENTUCKY
Phillip Rumrill, PhD
University of Kentucky
Lexington, Kentucky
Award: Strategic Initiatives
Term: 9/1/2020-12/31/2022
“A Two-Phase Examination of Labor Force Participation, Employment Concerns, and Workplace Discrimination among Latinas/os and African Americans with Multiple Sclerosis” Researchers at Kent State are investigating the employment experiences of the growing numbers of Hispanic/Latinos and African Americans with MS.

MARYLAND
Pavan Bhargava, MD
Johns Hopkins University
Baltimore, Maryland
Award: Harry Weaver Scholar Awards
Term: 7/1/2021-6/30/2026
“Understanding the contributions of metabolic dysfunction to MS pathophysiology” Researchers at Johns Hopkins University are exploring how byproducts of energy processes in immune and brain cells may contribute to MS development.
Paid by the Marilyn Hilton MS Research Fund
“Bile acid supplementation for Multiple Sclerosis” Johns Hopkins researchers are investigating whether a dietary supplement can be beneficial for the immune system, gut bacteria and MS disease activity.

“MALDI identification of CEST MRI biomarkers that may precede and predict the onset of disease in Multiple sclerosis” Researchers at Johns Hopkins are using MRI to see if there are biochemical and other changes in the brain before MS symptoms start, to create an early detection tool for earlier treatment. *Paid by the Marilyn Hilton MS Research Fund*

“Mechanisms of complement component 3 mediated neurodegeneration in MS and EAE” Johns Hopkins researchers are exploring sex differences in specific immune activity and whether blocking it has potential for protecting the nervous system in MS.

“Validation of Serum Neurofilament Light Chain as a Biomarker in Multiple Sclerosis: Subtypes and controls” Johns Hopkins researchers are determining whether blood levels of a neurofilament, released when nerves are damaged, can be validated as a blood test to monitor MS and predict its course.

“Validating spinal cord imaging outcomes for evaluating patient progression” Researchers at Johns Hopkins University are exploring novel strategies for tracking the transition of people to progressive MS.
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Pathway to Cures</th>
<th>Category</th>
<th>Estimated Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathryn Fitzgerald, DSc</td>
<td>Johns Hopkins University</td>
<td>Stop</td>
<td>Human Genetics</td>
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<td>Award: International Progressive MS Alliance</td>
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<td>Term: 7/1/2021-6/30/2023</td>
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<td><strong>“Multi-omic predictors of chronic inflammation in multiple sclerosis”</strong></td>
<td>Exploring the biological and genetic bases for the chronic inflammation that occurs in people with progressive MS, for clues to stopping progression.</td>
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<tr>
<td><strong>Estimated joint commitment with other Progressive MS Alliance members</strong></td>
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<td>Kathryn Fitzgerald, DSc</td>
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<td>Award: Career Transition Fellowships</td>
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<td>Term: 7/1/2019-6/30/2024</td>
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<td><strong>“The Melanopsin Pathway, Changes to Brain Structure and Depression in People with Multiple Sclerosis”</strong></td>
<td>Because depression is common in MS, Johns Hopkins researchers are looking for early signs of brain and eye changes that may signal depression, for clues to identifying and preventing this symptom.</td>
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<td><strong>Paid by the Marilyn Hilton MS Research Fund</strong></td>
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<td>Sachin Gadani, MD, PhD</td>
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<td>Award: NMSS-ABF Clinician Scientist Award</td>
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<td>Term: 7/1/2022-6/30/2025</td>
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<td><strong>“Defining the role of inflammatory oligodendrocyte precursor cells on chronic inflammation and impaired remyelination in CNS autoimmunity”</strong></td>
<td>A team at Johns Hopkins is investigating how myelin repair is blocked when myelin-making cells turn inflammatory, and how to reverse this process.</td>
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<td>Marjan Gharagozloo, PhD</td>
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<td>Award: Career Transition Fellowships</td>
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<td>Term: 7/1/2022-6/30/2027</td>
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<td><strong>“Investigating the role of NLRX1 in glia-mediated inflammation and neurotoxicity using experimental models of multiple sclerosis”</strong></td>
<td>Johns Hopkins researchers are investigating the role of a molecule in brain inflammation in mice with an MS-like disease.</td>
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<tr>
<td>Alexander Gill, MD, PhD</td>
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<td>Award: NMSS-ABF Clinician Scientist Award</td>
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<tr>
<td><strong>“Targeting Neurotoxic Inflammatory Glia and NLRX1 in MS/EAE”</strong></td>
<td>Scientists at Johns Hopkins are targeting a protein in MS-like disease with an eye toward developing therapies to stop MS.</td>
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</table>
Kimystian Harrison, MD  
Johns Hopkins University  
Baltimore, Maryland  
Award: Sylvia Lawry Physician Fellowships  
Term: 7/1/2021-6/30/2024  
“Clinical Trials Training in Multiple Sclerosis” A promising doctor at Johns Hopkins University will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Daniel Harrison, MD  
University of Maryland, Baltimore  
Award: Research Grants  
Term: 5/1/2022-4/30/2025  
“Development of a Convolutional Neural Network for MRI Prediction of Progression and Treatment Response in Progressive Forms of Multiple Sclerosis” University of Maryland researchers are testing a novel technology to predict MS progression and the effects treatment for progressive MS.

Abbey Hughes, PhD  
Johns Hopkins University  
Baltimore, Maryland  
Award: Mentor-Based Postdoctoral Fellowships  
Term: 7/1/2020-6/30/2025  
“Advancing Psychosocial Wellness in Multiple Sclerosis Through Mentored Training in Rehabilitation Research” Rehabilitation researchers at Johns Hopkins have received funding to train promising rehabilitation professionals to conduct MS rehabilitation research.

Ellen Mowry, MD, MCR  
Johns Hopkins University  
Baltimore, Maryland  
Award: Strategic Initiatives  
Term: 4/1/2019-3/31/2024  
“Traditional versus Early Aggressive Therapy for Multiple Sclerosis (TREAT-MS)” The Society is leveraging PCORI-funded clinical trials to support an MS biobank as a shared resource for researchers searching for biomarkers that will help elucidate predictors of long-term disability and treatment response.

Bardia Nourbakhsh, MD  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Term: 4/1/2019-3/31/2023  
“Evaluating the effects of short-term B-cell depletion on long-term disease activity and immune tolerance in relapsing multiple sclerosis” Johns Hopkins researchers are exploring the longer-term impacts of short-term use of B-cell depleting therapy on the immune system and MS disease activity.
Bardia Nourbakhsh, MD
Johns Hopkins University
Baltimore, Maryland
Award: Harry Weaver Scholar Awards
Term: 7/1/2022-6/30/2027
“New measurement tools for assessing a novel targeted treatment of multiple sclerosis fatigue”
Johns Hopkins researchers are testing a potential treatment for fatigue in people with MS and evaluating new ways of measuring MS fatigue.

Samantha Roman, MD
Johns Hopkins University
Baltimore, Maryland
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2022-6/30/2025
“MS Clinical Trials Fellowship” A promising doctor at Johns Hopkins will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Shiv Saidha, MD
Johns Hopkins University
Baltimore, Maryland
Award: Research Grants
Term: 10/1/2020-9/30/2023
“In-vivo investigation of retinal and cerebral vascular and metabolic dysfunction, and determination of their clinical significance in multiple sclerosis” Johns Hopkins researchers are assessing how efficiently nerve tissue is processing energy in people with MS, for clues to identifying people who may benefit from stronger therapies, and to find new strategies for treating MS.

Alexandra Simpson, MD
Johns Hopkins University
Baltimore, Maryland
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2021-6/30/2024
“Targeting Remyelination, Repair Mechanisms, and Symptom Management in Multiple Sclerosis through Clinical Trials” A promising doctor at Johns Hopkins will develop the skills involved in the design, implementation, and analysis of clinical trials in MS. 
*Paid by the Kenrose Kitchen Table Foundation and J. David Power, III*

Elias Sotirchos, MD
Johns Hopkins University
Baltimore, Maryland
Award: Career Transition Fellowships
Term: 7/1/2020-6/30/2025
“Prediction of risk of disability worsening and inflammatory disease activity in MS utilizing multimodal predictive algorithms” Johns Hopkins University researchers are studying multiple factors in large numbers of people with MS to provide insight into which factors are associated with a more severe disease course.
*Paid by the Marilyn Hilton MS Research Fund*
Dzung Pham, PhD
Henry M. Jackson Foundation
Bethesda, Maryland
Award: Research Grants
Term: 4/1/2020-3/31/2023
"Harmonizing of Heterogeneous MRI Data in MS"  Henry M. Jackson scientists are developing tools that will enable the pooling of MRI images to enhance understanding of MS and to track changes in an individual's MS over time.

Michelle Pleet, PhD
National Institutes of Health/National Institute of Neurological Disorders and Stroke
Bethesda, Maryland
Award: Postdoctoral Fellowships
Term: 7/1/2022-6/30/2024
"Origin and Cargo of CSF EVs from MS patients as Signatures of Disease"  A team at NIH is investigating the importance of extracellular vesicles, which are packets of information released from cells into the blood, in MS.

Daniel Reich, MD, PhD
National Institutes of Health/National Institute of Neurological Disorders and Stroke
Bethesda, Maryland
Award: Strategic Initiatives
Term: 10/1/2020-9/30/2022
"National Multiple Sclerosis Tissue Repository Network (Award 3 of 3)"  Developing and maintaining a tissue bank of specimens from people with MS for use in research.

Farinaz Safavi, MD, PhD
National Institutes of Health
Bethesda, Maryland
Award: NMSS-ABF Clinician Scientist Award
Term: 7/1/2020-6/30/2023
"Role of B cells in development of meningeal tertiary lymphoid structures"  NIH researchers are exploring the role that specific B cell subtypes play in the development of inflammation in MS, and how ocrelizumab affects these cells.

David Scott, PhD
Henry M. Jackson Foundation
Bethesda, Maryland
Award: Research Grants
Term: 10/1/2017-9/30/2022
"Engineering human CNS-specific T regulatory cells"  Researchers at the Uniformed Services University are investigating a way to specifically turn off components of the immune system that are harmful in people with MS.
Kanika Sharma, MD  
National Institutes of Health/National Institute of Neurological Disorders and Stroke  
Bethesda, Maryland  
Award: Sylvia Lawry Physician Fellowships  
Term: 7/1/2022-6/30/2023  
“Fellowship Training in Multiple Sclerosis Clinical Trials at the NIH”  
A promising doctor at the NIH will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Charidimos Tsagkas, MD, PhD  
National Institutes of Health  
Bethesda, Maryland  
Award: Postdoctoral Fellowships  
Term: 7/1/2022-6/30/2025  
“Molecular Imaging of CNS-Immune System Interactions in Multiple Sclerosis”  
NIH researchers are developing an imaging method that may allow better visualization of inflammation in the brain and spinal cord in MS.

Chuan Wu, MD, PhD  
National Cancer Institute, National Institutes of Health  
Bethesda, Maryland  
Award: Research Grants  
Term: 7/1/2017-TBD  
“High salt diet influences the development of autoimmunity via inducible salt sensing kinase SGK1”  
How might dietary salt influence the behavior of immune cells in MS?

MASSACHUSETTS

Onur Afacan, PhD  
Boston Children's Hospital  
Boston, Massachusetts  
Award: Pilot Research Grants  
Term: 10/1/2019-3/31/2023  
“Improved cortical lesion detection with high field MRI in Pediatric Onset Multiple Sclerosis patients”  
Boston Children's Hospital researchers are testing novel MR scanning and analysis techniques to improve the ability to non-invasively diagnose and monitor MS in children.

Clare Baecher-Allan, PhD  
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Research Grants  
Term: 4/1/2019-3/31/2023  
“Are CD20+ T cells dysfunctional in Multiple Sclerosis?”  
A team at Brigham and Women's Hospital is studying blood samples from people with MS to determine whether a novel set of immune cells drives MS, for clues to developing a therapeutic strategy for stopping the disease.
**Wesley Brandão, PhD**
Brigham and Women's Hospital
Boston, Massachusetts
Award: Postdoctoral Fellowships
Term: 7/1/2022-6/30/2025

“The role of APOE-mediated neurodegenerative microglia subset on T cell response and functions in EAE” A team at Brigham and Women's Hospital is studying the role of immune brain cells called microglia in MS progression.

**Mary Catanese, PhD**
Massachusetts General Hospital
Boston, Massachusetts
Award: Postdoctoral Fellowships
Term: 7/1/2020-6/30/2023

“In vivo neuroimaging of histone deacetylases in Multiple Sclerosis” Researchers at Mass General are using imaging to explore the role of a protein in MS-related damage to the nervous system, for clues to developing better therapies.

_Funded in full by a gift from the Kaufer Family_

**John Chen, MD, PhD**
Massachusetts General Hospital
Boston, Massachusetts
Award: Research Grants
Term: 10/1/2019-9/30/2022

“Targeting the ubiquitous oxidative aldehyde acrolein in MS” Massachusetts General researchers are testing advanced imaging to track changes in MS disease activity, and test a novel treatment strategy targeting inflammation and oxidative stress.

_Funded in part by a gift from the Kaufer Family_

**Tanuja Chitnis, MD**
Massachusetts General Hospital
Boston, Massachusetts
Award: Health Care Delivery and Policy Research Contracts
Term: 10/1/2015-12/31/2022

“Patient-family views on pediatric MS research needs, outcomes, and methods” Researchers at Harvard Medical School are gathering opinions about research priorities related to pediatric MS from parents of children and teenagers with MS, and adults with pediatric-onset MS.

**Marianna Cortese, MD, PhD**
Harvard School of Public Health
Boston, Massachusetts
Award: Pilot Research Grants
Term: 7/1/2020-9/30/2022

“Changes in the human virome and the risk of multiple sclerosis” Harvard researchers are using a novel technology to screen for prior infections by hundreds of viruses to examine whether these could play a role for the development of MS.
**Murugaiyan Gopal, PhD**
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Research Grants  
Term: 4/1/2020-3/31/2023  
"The pathogenic role of miR-92a in the regulation of T helper cell responses in MS"  
A Brigham and Women’s Hospital team is exploring the role of a molecule linked to harmful immune activity, and whether inhibiting it has promise for treating MS.

**Elena Herranz Muelas, PhD**
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Career Transition Fellowships  
Term: 7/1/2020-6/30/2025  
“Novel imaging tools for assessing spinal cord inflammatory activity in vivo in multiple sclerosis, its clinical relevance and correlation with brain pathology”  
Researchers at Massachusetts General Hospital are applying novel imaging technology to study the spinal cord in people in the early stages of MS.

**Dan Hu, PhD**
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Research Grants  
Term: 5/1/2022-4/30/2025  
“Heat shock protein-mediated regulation of T cell responses in Multiple Sclerosis”  
A team at Brigham and Women’s is investigating the role of a protein called Hsp70 in regulating the balance between aggressive and calming immune responses linked to MS.  
*Paid by the Marilyn Hilton MS Research Fund*

**Mahsa Khayatkhoei, MD**
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Postdoctoral Fellowships  
Term: 7/1/2022-6/30/2025  
“The Role of Monocytes in Progressive Multiple Sclerosis”  
A team at Brigham and Women's is testing the importance of immune cells called monocytes in progressive forms of MS.

**Eric Klawiter, MD**
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Pilot Research Grants  
Term: 2/1/2020-1/31/2023  
“Neurologic Music Therapy to Improve Gait Dysfunction in Multiple Sclerosis”  
Massachusetts General researchers are testing a method of walking to a beat or music to see if it improves walking in people with MS.  
*Paid by the Marilyn Hilton MS Research Fund*
Yoon-Chul Kye, PhD
Brigham and Women's Hospital  Pathway to Cures: Stop
Boston, Massachusetts  Category: Immunology
Award: Postdoctoral Fellowships  Approx. Funding: $193,789
Term: 7/1/2021-6/30/2024
“The role of immune checkpoint molecules on B cell in CNS autoimmune diseases” Researchers at Brigham and Women’s Hospital are determining how to optimize and improve upon therapies that target immune B cells in people with MS.

Caterina Mainero, MD, PhD
Massachusetts General Hospital  Pathway to Cures: Restore
Boston, Massachusetts  Category: Measuring MS Disease Activity
Award: Research Grants  Approx. Funding: $837,914
Term: 10/1/2018-9/30/2022
“Multimodal imaging of neuroinflammation and its contribution to cortical demyelination and regeneration in multiple sclerosis” Researchers at Massachusetts General Hospital are developing methods to monitor cells called microglia that likely play a role in myelin repair in people with MS.

Kassandra Munger, DSc
Harvard School of Public Health  Pathway to Cures: End
Boston, Massachusetts  Category: Epidemiology
Award: RFA  Approx. Funding: $282,093
Term: 10/1/2021-9/30/2023
“Expanding our understanding of the MS prodrome phenotype—a prospective study in two large cohorts of women” Harvard researchers are using long-range health data to detect early signs of MS up to 15 years before symptoms appear.  
Paid by the Marilyn Hilton MS Research Fund

Francisco Quintana, PhD
Brigham and Women's Hospital  Pathway to Cures: Stop
Boston, Massachusetts  Category: Biology of Glia
Award: International Progressive MS Alliance - Collaborative Network Center  Approx. Funding: $4,000,000
Term: 1/1/2017-9/30/2022
“Development of a drug discovery pipeline for progressive MS” Identifying candidates with neuroprotective and/or myelin repair activity to speed the search for treatments for progressive MS.  
Estimated joint commitment with other Progressive MS Alliance members; Funded in full by an Anonymous Donor

Francisco Quintana, PhD
Brigham and Women's Hospital  Pathway to Cures: Stop
Boston, Massachusetts  Category: Biology of Glia
Award: Research Grants  Approx. Funding: $807,070
Term: 10/1/2019-9/30/2023
“Molecular control of astrocytes in CNS inflammation” Brigham and Women’s researchers are seeking to Identify a role for “astrocyte” brain cells in MS progression, for clues to stopping progression in its tracks.  
Funded in part by the Donald C. McGraw Foundation
Anastasia Vishnevetsky, MD  
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Sylvia Lawry Physician Fellowships  
Term: 7/1/2022-6/30/2024  
“Addressing Fatigue and Quality of Life in Multiple Sclerosis: A Clinical Trials Training Plan”  
A promising doctor at Mass General will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Howard Weiner, MD  
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Strategic Initiatives  
Term: 10/1/2016-9/30/2022  
“SUMMIT: An investigation of deeply phenotyped cohorts to understand disease outcomes and the biology of progression in MS”  
SUMMIT (Serially Unified Multicenter Multiple Sclerosis Investigation) establishes an open research platform for identifying factors that influence the course of MS, with the goal of predicting and preventing progression.

Robert McBurney, PhD  
Accelerated Cure Project for MS  
Waltham, Massachusetts  
Award: Strategic Initiatives  
Term: 4/1/2021-3/31/2023  
“COVID-19 Vaccine Response in MS Project (COVER-MS Project)”  
iConquerMS is gathering important information related to the COVID-19 vaccines and how they work in people affected by MS.

Christopher Hemond, MD  
University of Massachusetts Medical School  
Worcester, Massachusetts  
Award: Pilot Research Grants  
Term: 3/1/2019-8/31/2022  
“The role of memory B-cells in multiple sclerosis pathology and disease monitoring”  
A team at UMass is investigating a specific subset of immune cells that may characterize highly inflammatory disease activity in people with MS.
Sebastian Werneburg, PhD  
University of Massachusetts Medical School  
Worcester, Massachusetts  
Award: Career Transition Fellowships  
Term: 7/1/2020-6/30/2025  
“Molecular Dissection of Neural Circuit Disassembly by Reactive Glia in Demyelinating Disease” A team at UMass is studying the fate of synapses -- the points of communication between two nerve cells -- throughout the course of MS.

MICHIGAN  
Anna Kratz, PhD  
Regents of the University of Michigan  
Ann Arbor, Michigan  
Award: Mentor-Based Postdoctoral Fellowships  
Term: 7/1/2019-6/30/2024  
“Training to Advance Rehabilitation Research in Multiple Sclerosis” Experienced mentors/researchers at the University of Michigan are training promising rehabilitation professionals to conduct MS rehabilitation research.

Nora Fritz, PT, PhD  
Wayne State University  
Detroit, Michigan  
Award: Research Grants  
Term: 7/1/2022-4/30/2025  
“TRAIN-BW: Feasibility, Acceptability and Impact of Backward Walking Training in Persons with MS” Researchers at Wayne State are testing the feasibility of backward walking training to prevent falls and improve mobility in people with MS.

Nora Fritz, PT, PhD  
Wayne State University  
Detroit, Michigan  
Award: Mentor-Based Postdoctoral Fellowships  
Term: 7/1/2022-6/30/2027  
“Advancing Rehabilitation Research for Persons with Multiple Sclerosis” Rehabilitation researchers at Wayne State University are training postdoctoral scientists in how to conduct MS research aimed at reversing symptoms and restoring function.  

Paid by the Marilyn Hilton MS Research Fund
Shailendra Giri, PhD  
Henry Ford Health System/Henry Ford Health Sciences  
Center  
Detroit, Michigan  
Award: Research Grants  
Term: 4/1/2019-9/30/2022  
“Impaired DHA metabolism in multiple sclerosis”  
Researchers at Henry Ford Health System are looking at whether people with MS have abnormalities in their ability to process polyunsaturated fatty acids -- dietary components that may fight inflammation.

Shailendra Giri, PhD  
Henry Ford Health System/Henry Ford Health Sciences  
Center  
Detroit, Michigan  
Award: Research Grants  
Term: 5/1/2022-4/30/2025  
“Specialized pro-resolving mediator, maresin 1, abrogates EAE disease progression”  
Henry Ford Health Sciences Center researchers are testing a molecule in mice with an MS-like disease for its potential for decreasing MS-related brain inflammation.  
*Paid by the Marilyn Hilton MS Research Fund*

**MINNESOTA**

Monica Langley, PhD  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Postdoctoral Fellowships  
Term: 7/1/2020-6/30/2023  
“Targeting CD38 to Enhance Myelin Regeneration Following Diet-induced Mitochondrial Deficits”  
Mayo Clinic scientists are looking at the consumption of high fat diet as a risk factor and/or modifier of disease progression in an MS model.  
* Funded in part by the Pearlmam Geller Family Foundation*

Claudia Lucchinetti, MD  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Collaborative Research Center Awards  
Term: 4/1/2016-3/31/2023  
“Metabolic Dysfunction in MS Pathogenesis and Disease Progression: The Donald C. McGraw Foundation Collaborative MS Research Center”  
A multi-center team at Mayo Clinic is taking a novel approach to studying nerve cells and possible ways to protect them from injury in MS and stopping MS progression.  
* Funded by the Donald C. McGraw Foundation*

Isobel Scarisbrick, PhD  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
“Protease Activated Receptor Targets for Myelin Regeneration”  
A Mayo Clinic team is exploring whether specific molecules can be “switched off” to promote nervous system repair in MS.
Jared Bruce, PhD
University of Missouri - Kansas City
Kansas, Missouri
Award: Research Grants
Term: 10/1/2020-9/30/2024
“Development of a telehealth obesity intervention for patients with MS” A University of Missouri team is testing the effectiveness of an MS-specific weigh loss/healthy living program delivered by phone, since obesity can profoundly worsen MS severity.

Claudia Cantoni, PhD
Washington University School of Medicine-M
St. Louis, Missouri
Award: Career Transition Fellowships
Term: 7/1/2019-6/30/2023
“MiR-223: a new potential therapeutic target to modulate myeloid cells in multiple sclerosis” Researchers at Washington University are exploring the possibility that a subset of immune cells in the blood may be impaired in MS, for clues to how these cells might be manipulated to suppress disease activity.

Brian Edelson, MD, PhD
Washington University School of Medicine-M
St. Louis, Missouri
Award: Research Grants
Term: 5/1/2022-4/30/2025
“T cell-intrinsic roles for the ZFP36 family proteins in MS and EAE” A team at Washington University in St. Louis is investigating how specific MS risk genes influence the activity of immune T cells in MS.

Cristina Gaudioso, MD
Washington University in St. Louis
St. Louis, Missouri
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2021-6/30/2024
“Clinical and Translational Research Training in Adult and Pediatric Multiple Sclerosis” A promising doctor at Washington University in St. Louis will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Laura Ghezzi, MD
Washington University in St. Louis
St. Louis, Missouri
Award: Postdoctoral Fellowships
Term: 7/1/2020-6/30/2023
“Characterization and quantification of Mucosal Associated Invariant T cells in patients with Multiple Sclerosis at time of diagnosis and in response to different disease modifying therapies” Researchers at Washington University in St. Louis are exploring how diet and the gut microbiota may regulate the number and function of a specific type of immune cell.

Paid by the Marilyn Hilton MS Research Fund
Daniel Hawiger, MD, PhD
Saint Louis University
St. Louis, Missouri
Award: Research Grants
Term: 10/1/2019-9/30/2022
“Dendritic cells-orchestrated and Hopx-mediated homeostasis of regulatory T cells blocking autoimmune neuroinflammation” Scientists at Saint Louis University are exploring the mechanisms by which certain cells can regulate immune attacks in MS, for clues to developing targeted therapies to stop MS.

Daniel Hawiger, MD, PhD
Saint Louis University
St. Louis, Missouri
Award: RFA
Term: 10/1/2021-9/30/2023
“Detecting autoimmune potential of CD4+ T cells in the early MS disease process” Saint Louis University investigators are search for novel immune cell fingerprints that would indicate pre-symptom MS to speed diagnosis earlier in the disease. 

Robyn Klein, MD, PhD
Washington University School of Medicine-M
St. Louis, Missouri
Award: Research Grants
Term: 10/1/2018-6/30/2023
“Interferon lambda as a biomarker and target for Diseases Progression in MS” Researchers at Washington University School of Medicine are investigating the role of a molecule called interferon lambda in progressive forms of MS.

Victoria Levasseur, MD
Washington University in St. Louis
St. Louis, Missouri
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2021-6/30/2023
“Sylvia Lawry Physician Fellowship” A promising doctor at Washington University in St. Louis will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Laura Piccio, MD, PhD
Washington University School of Medicine-M
St. Louis, Missouri
Award: Research Grants
Term: 4/1/2020-3/31/2023
“Cerebrospinal fluid-biomarkers-based diagnostic and prognostic models for Multiple Sclerosis” Washington University researchers are using powerful technology to measure spinal fluid proteins to develop biomarker profiles to predict MS course and response to treatments.
Laura Piccio, MD, PhD
Washington University School of Medicine-M St. Louis, Missouri
Award: Research Grants
Term: 4/1/2017-3/31/2023
“Randomized controlled trial of intermittent fasting in multiple sclerosis” Investigators at Washington University in St. Louis are conducting a clinical trial comparing intermittent fasting with a normal western diet in people with MS.

Naresha Saligrama, PhD
Washington University School of Medicine-M St. Louis, Missouri
Award: Career Transition Fellowships
Term: 10/1/2019-9/30/2022
“Understanding T cell receptor diversity and specificity in Multiple sclerosis and Experimental autoimmune encephalomyelitis” A team is using advanced technologies to analyze a novel set of immune cells in people with MS during relapses, remissions and after treatment, for clues to what activates and sustains the immune response in MS.

Wei-Le Wang, PhD
Washington University in St. Louis St. Louis, Missouri
Award: Postdoctoral Fellowships
Term: 7/1/2022-6/30/2025
“B cell tolerance at the CNS borders: a role for meningeal B cell in multiple sclerosis?” Researchers at Washington University in St. Louis are exploring the role of immune B cells in the blood and in the casing surrounding the brain in MS-like disease.

Gregory Wu, MD, PhD
Washington University School of Medicine-M St. Louis, Missouri
Award: Research Grants
Term: 4/1/2019-3/31/2023
“Formation of ectopic lymphoid tissue in autoimmune encephalomyelitis and MS” Washington University researchers are exploring a novel feature of the immune system that may prevent therapies that target immune B cells from being effective in some people with progressive MS, for clues to better management of MS progression.

Biao Xiang, PhD
Washington University School of Medicine-M St. Louis, Missouri
Award: Postdoctoral Fellowships
Term: 7/1/2020-6/30/2023
“Using a Novel MRI technique - Simultaneous Multi-Angular Relaxometry of Tissue - to Measure Evolution of tissue damage in Progressive Multiple Sclerosis” Investigators at Washington U are testing the ability of an imaging technique to detect and track progressive MS.
NEW HAMPSHIRE
Heather Wishart, PhD
Dartmouth-Hitchcock Clinic
Lebanon, New Hampshire
Award: Research Grants
Term: 10/1/2018-3/31/2023

“Cognitive evaluation in MS: Expanding clinical research potential through the validation of an online testing battery” Researchers at the Geisel Medical School at Dartmouth are testing the feasibility of administering cognitive testing online, to improve the process of evaluating cognitive changes in large-scale studies in MS.

NEW JERSEY
Victoria Leavitt, PhD
eSupport Health, PBC
Montclair, New Jersey
Award: Fast Forward
Term: 3/26/2021-9/30/2022

“eSupport: Telehealth platform for the delivery of online support groups for persons with MS” This commercial funding supports company infrastructure and a clinical trial to establish the benefit of eSupport online support groups for Black and Latinx people with MS, a group historically underrepresented in MS research studies.

Joshua Sandry, PhD
Montclair State University
Montclair, New Jersey
Award: Research Grants
Term: 10/1/2020-9/30/2023

“Neuroimaging of Hippocampally Mediated Memory Dysfunction in Multiple Sclerosis” A team at Montclair State is exploring changes in brain structure that underlie memory and cognitive problems in people with MS.

Evan Cohen, PT, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Pilot Research Grants
Term: 3/1/2019-2/28/2023

“Interval vs. continuous walking training for people with multiple sclerosis: a comparison of effectiveness” Rutgers researchers are testing whether providing rest intervals throughout walking rehabilitation efforts improves their effectiveness.

Kouichi Ito, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Research Grants
Term: 10/1/2019-9/30/2022

“Gut dysbiosis-mediated CNS autoimmunity” Rutgers University scientists are examining whether a specially designed high-fiber supplement can reduce changes in gut bacteria associated with MS.
Hiroko Nobuta, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Career Transition Fellowships
Term: 8/8/2020-8/7/2023
Pathway to Cures: Restore
Category: Biology of Glia
Approx. Funding: $350,625

“Development of a Human Compatible Platform to Study Oligodendrocyte Biology” Researchers at the Albert Einstein College of Medicine, New York, are optimizing ways of producing human myelin-making cells to speed efforts to find strategies to repair nerve-insulating myelin and restore function in MS.

Elizabeth Tricomi, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Pilot Research Grants
Term: 7/1/2020-9/30/2022
Pathway to Cures: Restore
Category: Rehabilitation
Approx. Funding: $54,750

“Examining the value of feedback on cognitive performance in Multiple Sclerosis” Rutgers researchers are examining how much people with MS value getting feedback about their performance, and how the amount they seek or avoid feedback influences how much they learn.

Teresa Wood, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Research Grants
Term: 10/1/2018-9/30/2022
Pathway to Cures: Restore
Category: Biology of Glia
Approx. Funding: $739,330

“Cooperative Functions of mTOR and TrkB/Erk Signaling in Remyelination” Researchers at Rutgers University are studying two molecular pathways that may work together to maintain and repair myelin following injury to myelin in mice.

Silvana Costa, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Research Grants
Term: 10/1/2018-9/30/2022
Pathway to Cures: Restore
Category: Rehabilitation
Approx. Funding: $436,096

“Keep an eye on the Symbol Digit Modalities Test” Kessler Foundation investigators are analyzing aspects of a cognitive test commonly used in MS, to develop more comprehensive and specific rehabilitation strategies.

John DeLuca, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Mentor-Based Postdoctoral Fellowships
Term: 7/1/2022-6/30/2027
Pathway to Cures: Restore
Category: Rehabilitation
Approx. Funding: $468,019

“MS Fellowship in Neuropsychological Rehabilitation” Experienced mentors/researchers at the Kessler Foundation are training promising rehabilitation professionals to conduct MS rehabilitation research.

Paid by the Marilyn Hilton MS Research Fund
Bing Yao, PhD  
Kessler Foundation Research Center  
West Orange, New Jersey  
Award: Research Grants  
Term: 10/1/2017-9/30/2022  
“Investigating the Correlation between Cognitive Fatigue and Brain Iron Deposition in Basal Ganglia in Multiple Sclerosis”  
Investigators at Kessler Foundation Research Center In West Orange, NJ, are exploring whether iron in certain areas of the brain contributes to cognitive fatigue in people with MS.

NEW YORK  
Thomas Covey, PhD  
The State University of New York at Buffalo  
Buffalo, New York  
Award: Pilot Research Grants  
Term: 7/1/2020-9/30/2022  
“A novel method for the investigation of the neural underpinnings of performance on the Symbol Digit Modalities Test in Multiple Sclerosis”  
Researchers at The State University of New York at Buffalo are determining how a standard test of cognitive impairment in MS reflects actual brain function.

Dritan Agalliu, PhD  
Columbia University  
New York, New York  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
“Endothelial Wnt signaling in CNS neo-angiogenesis and blood-brain barrier in EAE/MS”  
Columbia University researchers are exploring blood vessel abnormalities in MS to develop therapies that can prevent the influx of immune cells and protect the nervous system in MS.

Erin Beck, MD, PhD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Career Transition Fellowships  
Term: 9/20/2021-6/30/2024  
“Evolution of cortical pathology and its relation to meningeal inflammation in multiple sclerosis”  
NIH researchers are using advanced imaging to look at specific areas of damage in the brains of people with MS that are linked with progression, for clues to developing treatments that can stop the disease.

Leigh Charvet, PhD  
New York University Langone Medical Center  
New York, New York  
Award: RFA  
Term: 10/1/2021-9/30/2023  
“Intra-Individual Variability in Cognitive Performance as a Marker of Prodromal Disability in MS”  
Researchers at New York University are cataloging subtle variations in thinking speed to see if they can be an early predictor of future disability in MS and inform ways to stop progression.
Philip De Jager, MD, PhD  
Columbia University  
New York, New York  
Award: Strategic Initiatives  
Term: 10/1/2020-9/30/2022  
**“National Multiple Sclerosis Tissue Repository Network (Award 1 of 3)”**  
Developing and maintaining a tissue bank of specimens from people with MS for use in research.

Philip De Jager, MD, PhD  
Columbia University  
New York, New York  
Award: Research Grants  
Term: 10/1/2013-12/31/2022  
**“Integrating risk factors and biomarkers for prediction in presymptomatic MS”**  
Identifying individuals without symptoms who are at high risk for MS.

Jordan Dworkin, PhD  
Research Foundation for Mental Hygiene, Inc.  
New York, New York  
Award: Biostatistics/Informatics Junior Faculty Award  
Term: 7/1/2021-6/30/2024  
**“Mapping multi-modal relationships among lesions and clinical outcomes in MS”**  
Researchers at Columbia are using advanced methods to understand and predict how the locations of MS brain lesions link to symptoms and outcomes.  
*Paid by the Marilyn Hilton MS Research Fund*

Ilana Katz Sand, MD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
**“The Effect of Dietary Factors on Disease Outcomes in Multiple Sclerosis”**  
Researchers at Icahn School of Medicine at Mount Sinai in New York are following up on a previous study of diet in people with MS, to validate their findings and determine whether additional dietary factors are important.

Ralph Kern, MD  
Brainstorm Cell Therapeutics  
New York, New York  
Award: Fast Forward  
Term: 11/6/2019-8/31/2022  
**“Biomarker and Pharmacodynamic Evaluation in a Phase 2 Open Label, Multicenter Study of NurOwn® in Participants with Progressive Multiple Sclerosis”**  
Brainstorm is supporting a phase 2 clinical trial to see if repeated spinal fluid infusions of individuals’ own transformed bone marrow-derived mesenchymal stem cells (NurOwn®) can protect the nervous system from damage and promote myelin repair in partic.

*Partially funded in memory of Shirely M. Schiffer*
Lauren Krupp, MD  
New York University Langone Medical Center  Pathway to Cures: Restore  
New York, New York  Category: Psychosocial Aspects of MS  
Award: Research Grants  Approx. Funding: $1,046,676  
Term: 4/1/2016-3/31/2023  
“The neurodevelopmental influence of pediatric versus adult onset MS on cognition” Researchers at New York University are studying how MS affects cognitive abilities in children and adolescents, to help guide interventions.

Victoria Leavitt, PhD  
Columbia University  Pathway to Cures: Restore  
New York, New York  Category: Rehabilitation  
Award: Mentor-Based Postdoctoral Fellowships  Approx. Funding: $489,489  
Term: 7/1/2022-6/30/2027  
“Cognitive Rehabilitation in MS: Translating Neuroscience from Laboratory to Life” Experienced mentors/researchers at Columbia University are training promising rehabilitation professionals to conduct MS rehabilitation research.  
Paid by the Marilyn Hilton MS Research Fund

Shane Liddelow, PhD  
New York University Langone Medical Center  Pathway to Cures: Stop  
New York, New York  Category: Biology of Glia  
Award: Harry Weaver Scholar Awards  Approx. Funding: $404,917  
Term: 7/1/2022-6/30/2027  
“Neurotoxic lipids drive death of oligodendrocytes” New York University researchers are investigating a toxin secreted by cells in the brain that affects myelin making cells and their functions in MS-like disease.

Thanh Nguyen, PhD  
Weill Cornell Medical College  Pathway to Cures: Restore  
New York, New York  Category: Measuring MS Disease Activity  
Award: Research Grants  Approx. Funding: $884,012  
Term: 10/1/2016-12/31/2022  
“Quantitative MRI of lesion iron and myelin repair” Weill Cornell Medical College researchers are testing and validating a novel imaging technique for use in determining how iron in MS lesions in the brain may affect myelin repair.

Mathilde Pruvost, PhD  
Research Foundation of CUNY-ASRC  Pathway to Cures: Restore  
New York, New York  Category: CNS Repair  
Award: Postdoctoral Fellowships  Approx. Funding: $196,309  
Term: 7/1/2020-6/30/2023  
“Promoting remyelination by investigating the nuclear mechanisms induced by neuronal stimulation in adult oligodendrocyte progenitors.” Researchers at CUNY-ASRC are exploring how nerve signals stimulate myelin-making cells for clues to promoting myelin repair in MS.
Saud Sadiq, MD  
Tisch MS Research Center of New York  
NEW YORK, New York  
Award: Strategic Initiatives  
Term: 4/1/2019-3/30/2023  
**“Phase 2, Randomized, Double Blind, Placebo Controlled Study of Intrathecal autologous MSC-NP Cells in Patients With MS”**  
The Tisch MS Research Center of New York is conducting a phase II clinical trial to see whether stem cells derived from individuals' own bone marrow can inhibit immune mechanisms and augment tissue repair in progressive MS.

Ceren Tozlu, PhD  
Weill Cornell Medical College  
New York, New York  
Award: Postdoctoral Fellowships  
Term: 7/1/2021-6/30/2024  
**“Mapping multi-modal brain features to impairment severity in people with MS using machine learning”**  
Researchers at Weill Cornell Medical College are using advanced technology to streamline the process of diagnosing and tracking MS.

Elizabeth Verter, MD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Sylvia Lawry Physician Fellowships  
Term: 7/1/2022-6/30/2024  
**“Sylvia Lawry Physician Fellowship”**  
A promising doctor at the Icahn School of Medicine at Mt. Sinai will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Liwei Wang, PhD  
New York University Langone Medical Center  
New York, New York  
Award: Postdoctoral Fellowships  
Term: 7/1/2021-6/30/2024  
**“Investigation of novel ion channels as potential next-generation therapeutic targets for MS”**  
A team at NYU is exploring the potential of a therapeutic strategy for MS based on proteins on cell surfaces and inside of cells known as ion channels.

**NORTH CAROLINA**

Yisong Wan, PhD  
University of North Carolina at Chapel Hill  
Chapel Hill, North Carolina  
Award: Research Grants  
Term: 10/1/2018-9/30/2022  
**“Targeting T cell function to halt MS/EAE development”**  
Researchers at the University of North Carolina at Chapel Hill are studying a factor that appears to be important in abnormal activation of immune cells that are harmful in MS.
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<thead>
<tr>
<th>Name</th>
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<th>Approx. Funding</th>
<th>Study</th>
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<tr>
<td><strong>Mari Shinohara, PhD</strong></td>
<td>Duke University Medical Center</td>
<td>Research Grants</td>
<td>Immunology</td>
<td>$763,410</td>
<td>“Study on innate immune inflammation that enhances EAE” Duke University researchers are exploring how immune system activity leads to nerve degeneration, for insights into ways to prevent nerve loss and MS progression.</td>
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Matthew Plow, PhD
Case Western Reserve University
Cleveland, Ohio
Award: Mentor-Based Postdoctoral Fellowships
Term: 7/1/2021-6/30/2026
“Training Nurse Scientists to Improve the Outcomes of Rehabilitation Interventions in People with Multiple Sclerosis” Rehabilitation researchers at Case Western Reserve University are training scientist nurses how to conduct MS research aimed at reversing symptoms and restoring function.

Lindsay Ross, MD
Cleveland Clinic Foundation
Cleveland, Ohio
Award: Sylvia Lawry Physician Fellowships
Term: 7/1/2020-6/30/2023
“Training in Multiple Sclerosis diagnosis, management and clinical trials” A promising doctor at the Cleveland Clinic will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

OREGON
Daniel Hartung, MPH, PharMD
Oregon State University
Corvalis, Oregon
Award: Strategic Initiatives
Term: 2/1/2020-9/30/2022
“Updating Cost of MS Medication” Researchers at Oregon State University are investigating reasons for the escalating costs of MS treatments.

Michelle Cameron, MD, PT
Oregon Health & Science University
Portland, Oregon
Award: Research Grants
Term: 10/1/2019-7/31/2023
“A Randomized Controlled Trial of a Multicomponent Walking Aid Program for People with MS” Oregon Health & Science University researchers are testing whether a standardized program provided by physical therapists, that helps to select, fit, and train in using walking aids, can prevent falls in people with MS.

Gregory Duncan, PhD
Oregon Health & Science University
Portland, Oregon
Award: Career Transition Fellowships
Term: 7/1/2022-6/30/2027
“Mechanisms of neurodegeneration following remyelination failure” Researchers at Oregon Health and Science are investigating signals that cause nerve cells to die when myelin is lost in MS, and whether blocking them could decrease disability.
Kelly Monk, PhD  
Oregon Health & Science University  
Portland, Oregon  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
**“Molecular and Genetic Regulation of Myelin Capacity in the CNS”** Researchers at Oregon Health & Science University are studying how two genes function so that they may be targeted to promote myelin repair in MS.  
*Funded in part by the Donald C. McGraw Foundation*

Rebecca Spain, MD, MSPH  
Oregon Health & Science University  
Portland, Oregon  
Award: Strategic Initiatives  
Term: 10/1/2017-9/30/2024  
**“Lipoic acid for the treatment of progressive multiple sclerosis”** Investigators at Oregon Health & Science University are conducting a clinical trial to determine if the oral supplement, lipoic acid, is an effective treatment for progressive forms of multiple sclerosis.

**Pennsylvania**  
Brenda Banwell, MD  
Children's Hospital of Philadelphia  
Philadelphia, Pennsylvania  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
**“Does Recreational Marijuana Exposure Increase Cognitive Impairment and MRI Measures of Brain Injury in Youth and Young Adults with Multiple Sclerosis?”** A team at Children’s Hospital of Philadelphia is studying the effect of recreational marijuana use on the brain and cognition in teenagers with MS.

Amit Bar-Or, MD  
University of Pennsylvania  
Philadelphia, Pennsylvania  
Award: Strategic Initiatives  
Term: 4/1/2021-3/31/2023  
**“Linking multiple disease compartments in T1D and Multiple Sclerosis”** Exploring similarities and differences in the damaging immune attacks in MS and Type 1 diabetes for clues to better therapies.

Bogoljub Ciric, PhD  
Thomas Jefferson University  
Philadelphia, Pennsylvania  
Award: Research Grants  
Term: 10/1/2018-9/30/2022  
**“The role of CSF-1R and its ligands, CSF-1 and IL-34, in CNS autoimmunity.”** Researchers at Thomas Jefferson University are investigating regulators of specific immune cells involved in nervous system tissue damage in MS.
**Elizabeth Sweeney, PhD**  
University of Pennsylvania, Philadelphia, Pennsylvania  
Award: Biostatistics/Informatics Junior Faculty Award  
Term: 1/1/2022-6/30/2024  
“Evaluation of and Automated Image Analysis Tools for a QSM Rim Positive Multiple Sclerosis Lesion Biomarker”  
Developing new, automated ways to analyze brain scans to better detect the benefits of MS therapies against chronic inflammation.  
*Paid by the Marilyn Hilton MS Research Fund*

**TENNESSEE**  
**Francesca Bagnato, MD, PhD**  
Vanderbilt University Medical Center, Nashville, Tennessee  
Award: Research Grants  
Term: 10/1/2019-9/30/2024  
“7T-rings as a biomarker of disease severity in multiple sclerosis: cross-sectional and longitudinal validation”  
Vanderbilt University researchers are testing whether an indicator found using powerful imaging tools can – if found early – serve to predict and ultimately prevent a more severe course of MS.

**TEXAS**  
**Darin Okuda, MD**  
The University of Texas Southwestern Medical Center, Dallas, Texas  
Award: RFA  
Term: 10/1/2021-9/30/2023  
“Improved risk stratification in radiologically isolated syndrome (RIS) through identified serum and CSF biomarkers”  
Researchers at UT Southwestern and collaborators are searching for a marker in the blood or spinal fluid that will help predict whether a person with incidental MRI brain lesions will go on to develop MS.

**Amber Salter, PhD, MPH**  
The University of Texas Southwestern Medical Center, Dallas, Texas  
Award: Strategic Initiatives  
Term: 4/1/2021-6/30/2023  
“Metadata Catalogue Project”  
A team is aiming to establish a metadata catalogue and to increase the feasibility of harmonizing disability measures across registries.

**Amber Salter, PhD, MPH**  
The University of Texas Southwestern Medical Center, Dallas, Texas  
Award: Biostatistics/Informatics Junior Faculty Award  
Term: 7/1/2021-6/30/2024  
“Investigation of MS Disease Progression Using a Multifactorial Approach”  
Researchers at UT Southwestern and collaborators are examining MS worsening to uncover predictors of disease progression and improve preemptive care.  
*Paid by the Marilyn Hilton MS Research Fund*
“Feasibility and efficacy of a high-intensity interval training program in persons with multiple sclerosis who have walking impairment” Researchers at Berry College are looking at the impact of individualized arm and leg exercise regimens on movement, fatigue, depression and other symptoms in people with mobility impairments.

“Deciphering the Daam2-VHL signaling axis in oligodendrocyte remyelination in multiple sclerosis” Baylor researchers are focusing on understanding interactions of molecules to find a way to promote the repair of myelin that has been damaged by MS. 

“Restoration of Axonal Domains in Myelinated Axons and Prevention of Motor Disability” Scientists at the University of Texas Health Science Center at San Antonio are developing models to determine how damage to nerve cells and fibers occurs in MS and how it can be reversed to restore function.

“Renewal of Pediatric MS Network” The Society is supporting a one-of-a-kind network for research to advance knowledge and understanding of the triggers and impacts of MS in both children and adults.

“Understanding and utilizing the role of programmed death 1-positive (PD-1+) cells in multiple sclerosis” A team at the University of Utah is developing a therapy that targets specific immune cells, and testing it in MS mouse models to see if it can stop MS-like attacks without affecting normal immune function.
Karen Ho, PhD  
Clene Nanomedicine  
Salt Lake City, Utah  
Award: Fast Forward  
Term: 9/30/2019-8/31/2022  
“A Biomarker Analysis of Patients with Relapsing Remitting Multiple Sclerosis Treated with Biocatalytic Nanocrystalline Gold (CNM-Au8)” Clene Nanomedicine scientists are leveraging an ongoing clinical trial to measure blood biomarkers that may help detect nervous system protection and myelin repair in MS.

Weiquan Zhu, PhD  
University of Utah  
Salt Lake City, Utah  
Award: Research Grants  
Term: 4/1/2020-3/31/2023  
“Stabilizing the Blood-Central Nervous System Barrier to Treat Multiple Sclerosis” A University of Utah team is studying the role of a protein in the onset and progression of MS lab models, and whether blocking it has potential for treating MS.

VERMONT  
Dimitry Krementsov, PhD  
University of Vermont and State Agricultural College  
Burlington, Vermont  
Award: Research Grants  
Term: 10/1/2019-9/30/2022  
“Next generation systems analysis of pathogenetic mechanisms underlying CNS autoimmunity using the Collaborative Cross” A University of Vermont team is seeking to identify and validate genes that may underlie a person’s susceptibility to MS.

VIRGINIA  
Myla Goldman, MD  
Virginia Commonwealth University  
Richmond, Virginia  
Award: Research Grants  
Term: 10/1/2019-12/31/2022  
“Assessment of the Clinical Importance of Insulin Resistance & Steroid-Associated Hyperglycemia in Relapsing Multiple Sclerosis” A team from Virginia Commonwealth University is exploring whether controlling blood sugar can decrease the severity and/or improve recovery from an acute MS relapse.

WASHINGTON  
Dawn Ehde, PhD  
University of Washington  
Seattle, Washington  
Award: Research Grants  
Term: 4/1/2018-3/31/2023  
“Mindfulness based Cognitive Therapy and Cognitive Behavioral Therapy for Chronic Pain in Multiple Sclerosis” University of Washington researchers are conducting a clinical trial testing two non-pharmacological approaches to managing pain in people with MS.
Mark Jensen, PhD
University of Washington, Seattle, Washington
Award: Research Grants
Term: 10/1/2020-9/30/2024
Pathway to Cures: Restore
Category: Psychosocial Aspects of MS
Approx. Funding: $611,701
“Hypnosis and Mindfulness Meditation for Fatigue Management in MS” A University of Washington team is evaluating the effects of two highly accessible ways for individuals with MS to learn either self-hypnosis or mindfulness strategies for fatigue management on their own, without needing to work with a trained clinician.

Ivan Molton, PhD
University of Washington, Seattle, Washington
Award: Research Grants
Term: 4/1/2019-3/31/2024
Pathway to Cures: Restore
Category: Psychosocial Aspects of MS
Approx. Funding: $1,189,303
“Efficacy of a psychological intervention to improve ability to cope with uncertainty in MS.” University of Washington researchers are comparing traditional behavioral therapy with briefer counseling to determine how to better help people newly diagnosed with MS to cope with the uncertainty of the disease.

Aaron Turner, PhD
University of Washington, Seattle, Washington
Award: Mentor-Based Postdoctoral Fellowships
Term: 7/1/2018-6/30/2023
Pathway to Cures: Restore
Category: Rehabilitation
Approx. Funding: $401,426
“The Seattle Collaborative Fellowship” Researchers at the University of Washington and VA Puget Sound are training a series of promising professionals in how to conduct MS rehabilitation research.

WISCONSIN
Bonnie Dittel, PhD
Versiti Blood Research Institute, Milwaukee, Wisconsin
Award: Research Grants
Term: 10/1/2019-9/30/2022
Pathway to Cures: Stop
Category: Immunology
Approx. Funding: $641,489
“B cell regulation in EAE/MS” A Wisconsin team is exploring a newly identified subset of immune cells for clues to developing a cell-based therapy to stop the immune attack in MS.

OUTSIDE OF THE UNITED STATES

AUSTRALIA
Jeannette Lechner-Scott, MD, PhD
University of Newcastle - Australia, Callaghan, New South Wales, Australia
Award: International Progressive MS Alliance
Term: 7/1/2021-TBD
Pathway to Cures: Stop
Category: Neuropathology
Approx. Funding: $75,000
“Epigenetics of MS progression” Uncovering factors that may alter cell functions and may lead to progressive MS.
Estimated joint commitment with other Progressive MS Alliance members
Jessica Fletcher, PhD
University of Tasmania
Hobart, Tasmania, Australia
Award: International Progressive MS Alliance
Term: 7/1/2021-TBD
“Identifying novel phosphorylation events to drive myelin repair” Studying the factors that promote cells to make new nerve-insulating myelin, for clues to activating its repair to restore function in people with MS.

Estimated joint commitment with other Progressive MS Alliance members

Trevor Kilpatrick, PhD
Florey Institute of Neuroscience and Mental Health
Melbourne, Victoria, Australia
Award: Research Grants
Term: 10/1/2019-9/30/2022
“Modulating microglial activity for treatment of demyelinating diseases of the CNS” Australian researchers are testing whether the transplant of modified microglia – immune cells of the brain – can improve repair of nerve-insulating myelin in a model of MS.

Funded in part by the Donald C. McGraw Foundation

Yuyi You, MD, PhD
Macquarie University
North Ryde, New South Wales, Australia
Award: Research Grants
Term: 4/1/2020-3/31/2024
“Investigating the role of demyelination in anterograde transsynaptic degeneration in MS” University of Sydney researchers are studying the contributions of myelin loss to nerve degeneration, which can lead to MS progression.

Alexander Klistorner, PhD
Macquarie University
North Ryde, New South Wales, Australia
Award: Research Grants
Term: 7/1/2014-TBD
“Investigating mechanisms of axonal degeneration in multiple sclerosis” What are the mechanisms that drive progressive nervous system damage in MS?

AUSTRIA
Simon Hametner, MD, PhD
Medical University of Vienna
Vienna, Austria
Award: International Progressive MS Alliance
Term: 7/1/2021-TBD
“Multimodal decoding of CD163 immune cell function in progressive MS” Uncovering the role of an immune-related protein that may be linked to MS disease severity, for clues to developing better treatments for progressive disease.

Estimated joint commitment with other Progressive MS Alliance members
BELGIUM
An Goris, PhD
University of Leuven
Leuven, Belgium
Award: International Progressive MS Alliance
Term: 7/1/2021-6/30/2023
“Early microglial activation contributes to long-term progression in MS” Using “big data” to answer the question of why MS is so different between individuals who live with this disease.
Estimated joint commitment with other Progressive MS Alliance members

CANADA
Jeff Dunn, PhD
University of Calgary
Calgary, Alberta, Canada
Award: Research Grants
Term: 4/1/2019-3/31/2023
“Using light based technology to identify the extent of hypoxia in the cortex of patients with MS” University of Calgary researchers are using new technology to detect and investigate whether and how reduced levels of oxygen in parts of the brain may impact people with MS.

Douglas Arnold, MD
McGill University
Montreal, Quebec, Canada
Award: International Progressive MS Alliance - Collaborative Network Center
Term: 1/1/2017-12/31/2022
“An MRI biomarker for disability progression for use in clinical trials” Identifying a biomarker of disability progression for use in clinical trials.
Estimated joint commitment with other Progressive MS Alliance members

Lara Pilutti, PhD
University of Ottawa
Ottawa, Ontario, Canada
Award: Pilot Research Grants
Term: 10/1/2019-9/30/2022
“Characterizing the Acute Response to Adapted Exercise in Non-ambulatory People with Multiple Sclerosis” University of Ottawa researchers are studying the impacts and enjoyment of adapted exercise in people with MS who use wheelchairs.

Lara Pilutti, PhD
University of Ottawa
Ottawa, Ontario, Canada
Award: Research Grants
Term: 10/1/2016-11/30/2022
“Lifestyle physical activity intervention for improving cardiorespiratory fitness and vascular comorbidity risk in multiple sclerosis” University of Ottawa researchers are testing an intervention to increase physical activity to determine if it can improve fitness and reduce vascular disease risk in people with MS.
Jennifer Gommerman, PhD
University of Toronto
Toronto, Ontario, Canada
Award: International Progressive MS Alliance
Term: 7/1/2021-12/31/2022
“Innate immune – Glial cell crosstalk in progressive MS.” Studying a region of the brain to determine how damage may occur that affects cognitive function in people with progressive MS.
Estimated joint commitment with other Progressive MS Alliance members

Matthew Lincoln, MD, PhD
Unity Health Toronto
Toronto, Ontario, Canada
Award: Career Transition Fellowships
Term: 7/1/2022-6/30/2025
“Genetic and molecular heterogeneity of MS” A team at Yale is seeking to fine tune MS genetic studies using a novel framework that combines MS genetics data with similar data from related diseases, for insight into disease mechanisms and possible gene regulation.

Chao Wang, PhD
Sunnybrook Research Institute
Toronto, Ontario, Canada
Award: Career Transition Fellowships
Term: 3/1/2021-12/31/2023
“Regulation of TH17 cell function by CD5Like” Researchers at Brigham and Women’s Hospital in Boston are exploring how a recently discovered molecule may be used to develop a strategy for stopping the immune attack in MS in its tracks.

E. Yeh, MD
The Hospital for Sick Children
Toronto, Ontario, Canada
Award: Mentor-Based Postdoctoral Fellowships
Term: 7/1/2015-6/30/2023
“Pediatric MS: Shaping the future of outcomes and disability” This training program at the University of Toronto Hospital for Sick Children will equip researchers with experience and knowledge to design and conduct research aimed at improving wellness in children with MS.

E. Yeh, MD
The Hospital for Sick Children
Toronto, Ontario, Canada
Award: Research Grants
Term: 10/1/2019-9/30/2023
“Physical Activity, Quality of Life and Disease Outcomes in Youth with Multiple Sclerosis: the ATOMIC (Active Teens Multiple Sclerosis) Physical Activity Research Program” A team at the Hospital for Sick Children in Toronto is testing if a smartphone app that provides tailored physical activity info/coaching can increase physical activity in pediatric MS.
<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
<th>Award Type</th>
<th>Term Start-END</th>
<th>Pathway to Cures: Category</th>
<th>Approx. Funding</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahmoud Pouladi, PhD</td>
<td>University of British Columbia</td>
<td>Research Grants</td>
<td>1/1/2022-3/31/2023</td>
<td>Pathway to Cures: End</td>
<td>$395,200</td>
<td>“Ermin in Multiple Sclerosis” Researchers in Singapore are doing lab studies to understand how a rare gene mutation related to myelin may influence the risk of developing MS.</td>
</tr>
<tr>
<td>Alexander Rauscher, PhD</td>
<td>University of British Columbia</td>
<td>Research Grants</td>
<td>4/1/2016-3/31/2023</td>
<td>Pathway to Cures: Stop</td>
<td>$309,320</td>
<td>“Imaging markers for tissue damage and repair in MS” Researchers at the University of British Columbia in Vancouver are improving brain MRI to better detect disease activity, severity, and changes over time in people with MS.</td>
</tr>
<tr>
<td>Helen Tremlett, PhD</td>
<td>University of British Columbia</td>
<td>RFA</td>
<td>10/1/2021-9/30/2023</td>
<td>Pathway to Cures: Stop</td>
<td>$144,500</td>
<td>“Heterogeneity in the MS prodrome and impact on disease progression (PrOMS-HD)” University of British Columbia researchers, along with collaborators across Canada and Sweden, are searching medical records for early, unrecognized warning signs of MS to enable preemptive treatment.</td>
</tr>
<tr>
<td>Ruth Ann Marrie, MD, PhD</td>
<td>University of Manitoba</td>
<td>Research Contracts</td>
<td>3/1/2021-12/31/2022</td>
<td>Pathway to Cures: Stop</td>
<td>$10,000</td>
<td>“University of Manitoba Time and Materials Contract” A working group under the auspices of the International Advisory Committee on Clinical Trials in MS will identify gaps in knowledge on women’s health issues specific to women with MS and relevant to clinical trials.</td>
</tr>
<tr>
<td><em>FINLAND</em></td>
<td>Laura Airas, MD, PhD</td>
<td>International Progressive MS Alliance</td>
<td>7/1/2021-6/30/2023</td>
<td>Pathway to Cures: Stop</td>
<td>$75,000</td>
<td>“Exploring the role of A2A adenosine receptor in the pathogenesis of progressive MS” A team in Finland is testing a potential therapy for reducing nerve degeneration that leads to gradual disability progression, independent of relapses. Estimated joint commitment with other Progressive MS Alliance members</td>
</tr>
</tbody>
</table>
FRANCE
Bernard Zalc, MD, PhD
Institut du Cerveau et de la Moelle epiniere - ICM
Paris, France
Award: International Progressive MS Alliance
Term: 7/1/2021-TBD
“Microglia and remyelination” Using novel models and advanced technologies to explore how microglia, which are immune cells in the brain, may play a role in the repair of myelin in MS.
Estimated joint commitment with other Progressive MS Alliance members

GERMANY
Stefan Gold, PhD
Charité - Universitätsmedizin Berlin
Berlin, Germany
Award: Mentor-Based Postdoctoral Fellowships
Term: 7/1/2018-6/30/2023
“Neurobiological Mechanisms of Rehabilitation in MS” Researchers at the Charité University Medical Center Berlin, Germany are training promising professionals to advance MS rehabilitation research by applying molecular biology techniques.

Christine Stadelmann, MD
University Medical Center Goettingen
Göttingen, Germany
Award: Pilot Research Grants
Term: 10/1/2018-9/16/2022
“Identification of pro-remyelinating factors in remyelinating multiple sclerosis lesions” Determining how cell communication in areas of myelin damage may be especially important for efficient myelin repair.

Ludovico Cantuti-Castelvetri, PhD
Technical University of Munich
Munich, Germany
Award: International Progressive MS Alliance
Term: 7/1/2021-12/31/2022
“Targeting cell stress to enhance remyelination in a mouse model of multiple sclerosis” Exploring a mechanism that may prevent normal repair of nerve-insulating myelin in MS, and testing a potential strategy in mouse models to promote myelin repair.
Estimated joint commitment with other Progressive MS Alliance members

Lisa Ann Gerdes, MD
University Hospital LMU Munich Germany
Munich, Germany
Award: RFA
Term: 10/1/2021-9/30/2023
“Disease-triggering potential of microbiota in prodromal MS” Researchers in Munich are studying gut bacteria in twins with and without MS to identify possible risk factors that trigger MS.
Paid by the Marilyn Hilton MS Research Fund
IRELAND
Claire McCoy, PhD
Royal College of Surgeons in Ireland
Dublin, Ireland
Award: International Progressive MS Alliance
Term: 9/1/2021-8/31/2022
“Unraveling the role of miRNAs, in particular miR-448 in the demyelination process and its potential as a novel therapeutic in primary progressive MS.” Exploring the role of a microRNA that may be involved in the destruction of myelin, and developing ways to block it as a potential therapy to prevent progression of MS.
*Estimated joint commitment with other Progressive MS Alliance members*

ITALY
Francesca Bovis, PhD
University of Genoa
Genoa, Italy
Award: Biostatistics/Informatics Junior Faculty Award
Term: 7/1/2022-6/30/2025
“Personalizing treatment effect based on patient’s baseline profile: A statistical modelling approach applied to observational study data” A team at the University of Genoa is using statistical methods to identify traits that support a personalized selection of treatment for MS.

Francesco Bifari, MD, PhD
University of Milan
Milan, Italy
Award: International Progressive MS Alliance
Term: 7/1/2021-6/30/2023
“Branched chain amino acids-induced persistent metabolic shift towards oxidative phosphorylation in immune and neural cells: a potential new therapy for Progressive Multiple Sclerosis” Attempting to address the increased demands on cellular energy of nerve cells damaged by MS inflammation by providing nutrient supplements to the cells to increase their survival.
*Estimated joint commitment with other Progressive MS Alliance members*

Marika Falcone, MD, PhD
Fondazione Centro San Raffaele
Milan, Italy
Award: Research Grants
Term: 4/1/2019-3/31/2023
“Assessing the immune regulatory role of gut microbiota in brain autoimmunity and disease activity in RRMS patients” Researchers in Milan, Italy are analyzing how gut bacteria influence immune cell behavior in the brain, and how alterations in those bacteria may reduce or exacerbate MS disease activity.
Gianvito Martino, MD  
Fondazione Centro San Raffaele  
Milan, Italy  
Award: International Progressive MS Alliance - Collaborative Network Center  
Term: 10/1/2017-9/30/2022  
“Bioinformatics and cell reprogramming to develop an in vitro platform to discover new drugs for progressive multiple sclerosis (BRAVEinMS)”  
Identifying therapy candidates with neuroprotective and/or myelin repair activity to speed the search for treatments for progressive MS.  
*Estimated joint commitment with other Progressive MS Alliance members; Funded in full by an Anonymous Investor*

Rosella Mechelli, PhD  
Università Telematica San Raffaele Roma  
Rome, Italy  
Award: Research Grants  
Term: 4/1/2019-3/31/2023  
“EBV genotyping in MS”  
Investigating the role of specific strains of Epstein-Barr virus as a triggering factor in MS.

Massimiliano Calabrese, MD  
University of Verona  
Verona, Italy  
Award: International Progressive MS Alliance  
Term: 7/1/2021-TBD  
“Detecting the immunological basis of neurodegeneration and microglial activation in early MS patients”  
Identifying biomarkers that may detect and enable prevention of early damage to parts of the brain that are associated with more rapid disease progression.  
*Estimated joint commitment with other Progressive MS Alliance members*

LEBANON  
Hala Darwish, PhD  
American University of Beirut  
Beirut, Lebanon  
Award: Pilot Research Grants  
Term: 6/1/2019-5/31/2023  
“Interacting with Nature using virtual reality: A pilot intervention to restore cognitive fatigue in patients with Multiple Sclerosis (MS)”  
A team in Beirut is testing whether interacting with nature via virtual reality can decrease cognitive fatigue in people with MS.

NETHERLANDS  
Antonio Luchicchi, PhD  
VU University Medical Center (VUmc)  
Amsterdam, Netherlands  
Award: International Progressive MS Alliance  
Term: 7/1/2021-TBD  
“Blistering of the axon-myelin unit as prodromal stage of axonal degeneration in progressive MS: the role of calpain-cathepsin axis.”  
Exploring whether the interaction between myelin and the nerve fibers it coats might be altered in MS, leading to progression, for clues to new strategies that stop MS.  
*Estimated joint commitment with other Progressive MS Alliance members*
**SPAIN**

Manuel Comabella, MD, PhD  
Hospital Vall Hebron  
Barcelona, Catalonia, Spain  
Award: Research Grants  
Term: 5/1/2022-4/30/2024  
“Search of prognostic factors of conversion to multiple sclerosis in patients with radiologically isolated syndrome”  
Barcelona researchers are seeking ways to predict whether people with unexpected abnormalities on brain scans are most likely to develop MS.  
*Paid by the Marilyn Hilton MS Research Fund*

**SWEDEN**

Tomas Olsson, MD, PhD  
Karolinska Institutet  
Stockholm, Sweden  
Award: RFA  
Term: 10/1/2021-9/30/2023  
“Early detection of multiple sclerosis: a life-course epidemiological and biomarker approach”  
Researchers at Sweden's Karolinska Institute are taking advantage of a depth of national medical and other data to detect MS risk factors and windows of exposure to explain how combinations of factors lead to MS.  
*Paid by the Marilyn Hilton MS Research Fund*

**SWITZERLAND**

David Leppert, MD  
University Hospital Basel  
Basel, Switzerland  
Award: International Progressive MS Alliance  
Term: 7/1/2021-TBD  
“Neurofilament light chain (NfL) turnover in blood circulation in physiological conditions and animal models of MS”  
Improving understanding of a biomarker, neurofilament light chain, to advance its use for predicting progression of MS and monitoring treatment responses.  
*Estimated joint commitment with other Progressive MS Alliance members*

**UNITED KINGDOM**

Cory Willis, PhD  
University of Cambridge  
Cambridge, United Kingdom  
Award: Postdoctoral Fellowships  
Term: 7/1/2021-6/30/2024  
“Exploring the role of ASTROcytic succinate recepTOR in neuroinflammation (ASTRO_TOR)”  
Researchers at the University of Cambridge are exploring how certain brain cells may drive MS progression.

Jeremy Chataway, MD, PhD  
University College London  
London, United Kingdom  
Award: Research Grants  
Term: 10/1/2017-9/30/2022  
“MS-STAT2-MRI”  
Researchers from University College London are leading a multicenter trial in the UK to test whether a repurposed cholesterol-lowering therapy can slow the course of secondary progressive MS.
Ruth Dobson, PhD
Queen Mary University of London
London, United Kingdom
Award: RFA
Term: 10/1/2021-9/30/2023
“Window of opportunity: examining modifiable risk factors and prodromes of Multiple Sclerosis in UK primary care datasets” Queen Mary University London researchers are using medical records from people of different backgrounds to identify symptoms occurring before an MS diagnosis, and potentially developing tools for identifying those at the highest risk of MS.

Paid by the Marilyn Hilton MS Research Fund

MS Society UK,
MS Society UK
London, United Kingdom
Award: Strategic Initiatives
Term: 4/1/2017-6/30/2026
“Partial support for the Phase 3 clinical trial of simvastatin in progressive MS by Dr Jeremy Chataway” Researchers from University College London are leading a multicenter trial in the UK to test whether a repurposed cholesterol-lowering therapy can slow the course of secondary progressive MS.

Klaus Schmierer, MD, PhD
Queen Mary University of London
London, United Kingdom
Award: Strategic Initiatives
Term: 10/1/2020-9/30/2025
“Chariot MS - MRI Substudy” Researchers in the United Kingdom are testing whether a disease-modifying therapy can preserve upper limb function in people with advanced MS.

Kenneth Smith, PhD
University College London
London, United Kingdom
Award: International Progressive MS Alliance
Term: 7/1/2021-12/31/2022
“Understanding the molecular pathways involved in protection from secondary progressive disease” Exploring mechanisms responsible for the loss of nerve cells in progressive MS and potential ways to protect against it.

Estimated joint commitment with other Progressive MS Alliance members