List of Current Research Projects Funded by the National MS Society

Sorted by State/Country

January 2018

Advocacy, Services and Research Department
National Multiple Sclerosis Society
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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, foster global collaboration between MS researchers, and convene experts to identify strategic research priorities. These priorities are critical to advancing solutions for people living with MS today, and ultimately to a prevention and cure.

This document lists all current MS research projects being funded by the National Multiple Sclerosis Society (USA) sorted by state and country, as of January 2018.
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.
TBD = to be determined

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/Drug Development – 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
• 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
• 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 ‘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
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PROJECTS OUTSIDE OF THE U.S.A.

AUSTRALIA
Hamish Campbell, PhD
MS Research Australia
North Sydney, Australia
Award: Research Grants
Category: Human Therapy Trials/Management of MS
Strategic Area: End
Approx. Funding: $76,000
Term: 4/1/2017-3/31/2018
“A trial of Vitamin D3 in patients with a first demyelinating event (PrevANZ)” A clinical trial to test whether oral vitamin D supplementation can prevent MS in those at risk of developing the disease.

Trevor Kilpatrick, MBBS, PhD
Florey Institute of Neuroscience and Mental Health
Melbourne, Australia
Award: Pilot Research Grants
Category: Preclinical Drug Development
Strategic Area: Restore
Approx. Funding: $37,208
Term: 9/1/2017-8/31/2018
“Targeting Tyro3 to promote remyelination in Multiple Sclerosis” Developing a cutting-edge method for exploring a therapeutic target that may enhance myelin production in MS.

Trevor Kilpatrick, MBBS, PhD
Florey Institute of Neuroscience and Mental Health
Melbourne, Australia
Award: Research Grants
Category: Human Genetics
Strategic Area: End
Approx. Funding: $384,098
Term: 10/1/2015-9/30/2018
“Understanding the Role of MERTK in the Aetiology and Pathogenesis of MS” Researchers at the University of Melbourne in Australia are investigating the function of an immune cell protein which is abnormal in some people with MS, to understand its potential role in MS.

Alexandr Klistorner, PhD
Macquarie University
North Ryde, NSW, Australia
Award: Research Grants
Category: Neurophysiology
Strategic Area: Stop
Approx. Funding: $1,124,000
Term: 7/1/2014-10/1/2018
“Investigating mechanisms of axonal degeneration in multiple sclerosis” What are the mechanisms that drive progressive nervous system damage in MS?

CANADA
Douglas Arnold, MD
McGill University
Montreal, QC, Canada
Award: International Progressive MS Alliance - Collaborative Network Center
Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $4,560,000
Term: 1/1/2017-12/31/2020
“An MRI biomarker for disability progression for use in clinical trials” Identifying a biomarker of disability progression for use in clinical trials.

Joint commitment with other Progressive MS Alliance members
Marcia Finlayson, PhD
Queen's University Category: Rehabilitation
Kinston ON, Canada Strategic Area: Restore
Award: Mentor-Based Postdoctoral Fellowships Approx. Funding: $382,724
Term: 7/1/2014-6/30/2019

“Building capacity for MS self-management research and knowledge translation” Mentor-Based Postdoctoral Fellowship in MS Rehabilitation Research to provide training in research into self-management programs for people with MS.

Nader Ghasemlou, PhD
Queen's University Category: Physiology
Kinston, ON, Canada Strategic Area: Restore
Award: Pilot Research Grants Approx. Funding: $38,625
Term: 11/1/2017-10/31/2018

“Circadian control of pain in multiple sclerosis” Researchers at Queen's University, London, are identifying new therapeutic targets that can be used to block or reduce pain in those living with MS.

Marc Horwitz, PhD
University of British Columbia Category: Immunology
Vancouver, BC, Canada Strategic Area: Stop
Award: Pilot Research Grants Approx. Funding: $44,000
Term: 11/1/2017-10/31/2018

“A pre-clinical model for studying the role of EBV in MS” Investigators from the University of British Columbia are testing whether Epstein Barr Virus specifically acts as an important factor in MS.

Fang Liu, MD, PhD
Centre for Addiction and Mental Health Category: Preclinical Drug Development
Toronto, ON, Canada Strategic Area: Stop
Award: Fast Forward Approx. Funding: $838,300
Term: 4/1/2017-3/31/2019

“Preclinical characterization and modification of small molecule drugs for the treatment for multiple sclerosis” Researchers at the Centre for Addiction and Mental Health in Toronto are refining a novel approach to stopping MS damage to the nervous system and progression.

Funded in collaboration with the MS Society of Canada

Lara Pilutti, PhD
University of Ottawa Category: Rehabilitation
Ottawa, ON, Canada Strategic Area: Restore
Award: Research Grants Approx. Funding: $351,620
Term: 10/1/2016-11/30/2018

“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.
Alexander Rauscher, PhD
University of British Columbia
Vancouver, BC, Canada
Award: Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $309,320
Term: 4/1/2016-3/31/2019

“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.

Brent Richards, MD
Jewish General Hospital
Montreal, QC, Canada
Award: Research Grants
Category: Epidemiology
Strategic Area: End
Approx. Funding: $64,000
Term: 10/1/2016-9/30/2018

“The effect of obesity and EBV on the risk of MS: A Mendelian Randomization Analysis” Researchers from Jewish General Hospital in Montreal are using advanced genetic tools to better understand the extent to which obesity and Epstein-Barr virus are associated with increased MS risk or MS progression.

Mary Stevenson, PhD
McGill University
Montreal, QC, Canada
Award: Pilot Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $44,000-PENDING
Term: 11/1/2017-10/31/2018

“Therapeutic effects of intestinal nematode-derived proteins in EAE” Researchers are investigating the effectiveness of helminth-derived proteins as therapy for mice with MS-like disease.

Helen Tremlett, PhD
University of British Columbia
Vancouver, BC, Canada
Award: Research Grants
Category: Epidemiology
Strategic Area: Stop
Approx. Funding: $1,051,047
Term: 4/1/2014-3/31/2018

“Prodromal Multiple Sclerosis: The PrOMS Study” How early before its diagnosis can MS be detected?

E. Yeh, MD
The Hospital for Sick Children
Toronto, ON, Canada
Award: Mentor-Based Postdoctoral Fellowships
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $352,950
Term: 7/1/2015-6/30/2020

“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, ON, Canada
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $43,807
Term: 11/1/2017-10/31/2018
“Sleep, Physical Activity and MS Symptoms in Paediatric MS” Researchers at The Hospital for Sick Children are seeking to understand how sleep habits, physical activity, and disease symptoms are related to one another in youth with MS.

FRANCE
Carlos Parras, PhD
INSERM - Institut National de la Santé et de la Recherche Médicale
Paris, France
Award: Research Grants
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $586,502
Term: 10/1/2015-9/30/2018
“Chd7 chromatin remodeler function in myelination and remyelination” Researchers at Salpêtrière Hospital in Paris are examining MS lesions and mouse models to investigate the role of a protein called CHD7 in chromatin remodeling, which is required for oligodendrocyte maturation and subsequent myelin repair.

GERMANY
Stefan Gold, PhD
Charité - Universitätsmedizin Berlin
Berlin, Germany
Award: Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Stop
Approx. Funding: $490,935
Term: 4/1/2015-3/31/2018
“Molecular mechanisms of T cell dysfunction in multiple sclerosis-associated major depression” Researchers at Charité University Medical Center in Berlin, Germany are investigating the possible link between immune system dysfunction and depression in people with MS.

Stefan Gold, PhD
Charité - Universitätsmedizin Berlin
Berlin, Germany
Award: Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $1,397,712
Term: 4/1/2016-3/31/2020
“Online program to reduce depression in MS – a phase III international multicenter randomized controlled trial” Researchers at Berlin, Germany’s Charité University Medical Center are testing the effectiveness of a computer program for overcoming MS-related depression.

Christoph Heesen, MD
University Medical Center Hamburg-Eppendorf
Hamburg, Germany
Award: Mentor-Based Postdoctoral Fellowships
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $396,392
Term: 7/1/2013-6/30/2018
“Development and validation of behavioural interventions to enhance self-management in MS” Training in research aimed at developing ways to help people with MS enhance their knowledge and ability for managing their disease.
Klaus Lehmann-Horn, MD  
Technical University of Munich  
Munich, Germany  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $130,422  
Term: 1/1/2016-6/30/2018  
“Role of B cells in spontaneous chronic CNS autoimmune disease” Exploring the role of immune B cells in MS disease progression.

ISRAEL  
Jeffrey Hausdorff, PhD  
Tel Aviv Sourasky Medical Center  
Tel Aviv, Israel  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $938,522  
Term: 4/1/2016-3/31/2020  
“Virtual Reality-treadmill combined intervention for enhancing mobility and cognitive function in patients with Relapsing-Remitting Multiple Sclerosis” Researchers at the Tel Aviv Sourasky Medical Center, Israel and the University of Illinois at Urbana-Champaign are conducting a trial to test a rehabilitation strategy that addresses walking and thinking issues in a single, integrated approach.

Kadimastem LTD,  
Kadimastem LTD.  
Nes-Ziona, Israel  
Award: Fast Forward  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $174,400  
Term: 9/25/2015-9/30/2018  
“Use of human oligodendrocytes for drug screening and discovery of new neuroprotection and repair therapies for MS” Developing and testing a potential therapy to promote myelin repair in MS.

Batia Kaplan, PhD  
Sheba Medical Center  
Tel-Hashomer, Ramat-Gan., Israel  
Award: Pilot Research Grants  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $39,820  
Term: 7/1/2016-6/30/2018  
“Analysis of immunoglobulin free light chain monomers and dimers in saliva of MS patients: Implications for diagnosis of MS and monitoring of response to treatment” Developing and testing a lab test for diagnosis and monitoring disease progression and response to treatment.

Lior Mayo, PhD  
Tel Aviv University  
Tel Aviv, Israel  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $375,000  
Term: 1/1/2017-12/30/2019  
“Role of CD38 in the control of the innate and adaptive immune responses during CNS inflammation” Researchers at Tel Aviv University are investigating an immune-system protein for its role in driving MS progression, for clues to stopping progression in its tracks.
ITALY
Paola de Candia, PhD
Fondazione MultiMedica ONLUS
Milano, Italy
Award: Pilot Research Grants
“Unveiling the role of extracellular miR146a-5p in the loss of immune tolerance during multiple sclerosis.” Exploring newly discovered mechanism related to immune function for clues to what goes wrong in MS and how to fix it.

Francesca Fallarino, PhD
University of Perugia
Perugia, Italy
Award: Pilot Research Grants
“Targeting cellular prion protein in multiple sclerosis” Investigating a novel target for stopping the immune attack in MS.

Gianvito Martino, MD
Fondazione Centro San Raffaele
Milano, Italy
Award: International Progressive MS Alliance - Collaborative Network Center
“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. Joint commitment with other Progressive MS Alliance members

PORTUGAL
Carlos Duarte, PhD
University of Coimbra
Coimbra, Portugal
Award: Research Grants
“Novel cerebrospinal fluid and serum biomarkers for Multiple Sclerosis” Investigators at the University of Coimbra, Portugal, are exploring whether proteins they have identified in the spinal fluid may be used as biomarkers or flags to help diagnose and track MS.

THE NETHERLANDS
Maarten Kole, PhD
Netherlands Institute for Neuroscience
Amsterdam, The Netherlands
Award: Research Grants
“Mechanisms and consequences of synapse elimination in secondary progressive MS and the cuprizone model” Researchers at the Netherlands Institute for Neuroscience are exploring a strategy for improving learning and memory in secondary progressive MS by addressing damage in a specific area of the brain associated with these functions.
**UNITED KINGDOM**

**Jeremy Chataway, PhD, FRCP**  
University College London  
London, United Kingdom  
Award: Strategic Initiatives

“Funding for imaging to track some participants in the MS-STAT2 phase 3 clinical trial investigating simvastatin secondary progressive MS.” This is an add-on study to use MRI to track some participants in the multicenter trial in the UK to test whether a repurposed cholesterol-lowering therapy can slow the course of secondary progressive MS. 

*Co-funded by the UK MS Society*

**Don Mahad, MD, PhD**  
University of Edinburgh  
Edinburgh, United Kingdom  
Award: Research Grants

“Mitochondria and mechanisms of axon degeneration in progressive MS” Exploring energy failure in cells as one possible cause of progressive MS.

**Aisling McMahon**  
MS Society UK  
London, United Kingdom  
Award: Strategic Initiatives

“Co-funding for MS-STAT2 phase 3 clinical trial investigating simvastatin secondary progressive MS, led 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.

**Richard Reynolds, PhD**  
Imperial College London  
London, United Kingdom  
Award: Research Grants

“The role of meningeal inflammation induced cytokine signalling and mitochondrial dysfunction in neurodegeneration in progressive MS” Researchers at Imperial College, London, have pinpointed a molecule that may signal nerve cell death, and are investigating how to alter these signals to stop MS progression.

**David Selwood, PhD**  
University College London  
London, United Kingdom  
Award: Fast Forward

“Lead optimisation of a novel MS drug for nerve loss” Developing a novel therapy to prevent nerve tissue damage in people with MS.
David Selwood, PhD  
University College London, United Kingdom  
Award: Fast Forward  
Category: Preclinical Drug Development  
Strategic Area: Stop  
Approx. Funding: $551,726  
Term: 9/1/2016-8/31/2020

“The development of selective ion channel activators for neuroprotection”  Developing novel approaches to stopping nerve tissue damage in people with MS.

PROJECTS WITHIN THE U.S.A.

ALABAMA

Robert Motl, PhD  
University of Alabama at Birmingham, Birmingham, Alabama  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $43,677  
Term: 8/1/2016-4/20/2018

“Sedentary Behavior in MS: Examining it's Prevalence, Distribution, and Correlates using the NARCOMS Registry”  Determining factors that contribute to sedentary behavior in people with MS.

Robert Motl, PhD  
University of Alabama at Birmingham, Birmingham, Alabama  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $813,305  
Term: 10/1/2014-7/31/2020

“Project BIPAMS: Behavioral Intervention for increasing Physical Activity in MS”  Researchers are testing an internet-based behavioral intervention with people with MS to increase their physical activity and alleviate symptoms.

Hongwei Qin, PhD  
University of Alabama at Birmingham, Birmingham, Alabama  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $583,800  
Term: 4/1/2017-3/31/2020

“Function of Protein Kinase CK2 in CD4+ T Cells and Autoimmune Disease”  Researchers at the University of Alabama at Birmingham are investigating an immune molecule called CK2 that may be harmful in MS.

Brooks Wingo, PhD  
University of Alabama at Birmingham, Birmingham, Alabama  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $39,628-PENDING  
Term: 11/1/2017-10/31/2018

“Pilot and feasibility trial of a telehealth dietary intervention for MS”  Investigators at the University of Alabama at Birmingham are testing a comprehensive behavioral lifestyle intervention that includes both diet and exercise components, delivered through a web-based telecoaching platform.
**ARIZONA**

Lynn Hudson, PhD
Critical Path Institute
Tucson, Arizona

Award: Strategic Initiatives

“Qualifying Clinical Outcome Assessments through a Multiple Sclerosis Consortium (MSC)”
Analyzing data from MS clinical trials to develop a more sensitive tool for evaluating the benefits of treatments on clinical symptoms and progression of MS.

**CALIFORNIA**

Katerina Akassoglou, PhD
The J. David Gladstone Institutes
San Francisco, California

Award: Research Grants

“Role of fibrinogen in the inhibition of oligodendrocyte differentiation” Can a blood protein that may inhibit myelin repair in MS be overridden to spur repair?

Funded by a gift from an Anonymous Donor in honor of JoAnn LeMaistre, PhD

Lilyana Amezcua, MD
University of Southern California
Los Angeles, California

Award: Research Grants

“Acculturation, genetic ancestry, and disability in Hispanic Americans with multiple sclerosis” Researchers at University of Southern California are spearheading a study to understand socio-cultural factors that impact MS in Hispanics and to provide solutions to prevent disease worsening.

**Annexon Biosciences,**

South San Francisco, California

Award: Fast Forward

“Identification of CSF Biomarkers to Establish Target Engagement and Dosing for a Novel MS Therapeutic” Validating the applicability of a new neuroprotective compound to prevent or delay neurodegeneration in progressive MS.

**Sergio Baranzini, PhD**

University of California, San Francisco
San Francisco, California

Award: Collaborative Research Center Awards

“The MS Microbiome Consortium (MSMC): an academic multi-disciplinary collaborative effort to elucidate the role of the gut microbiota in MS” With this support to the MS Microbiome Consortium, a multi-center team is conducting a comprehensive analysis of gut bacteria in people with MS to determine factors that may drive progression and help to develop probiotic strategies for stopping progressi
Lisa Barcellos, PhD  
University of California, Berkeley  
Berkeley, California  
Award: Pilot Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 7/1/2017-6/30/2018

“A Pilot Approach to Establish a Pipeline for Epigenetic Studies of T Cells in MS”  Applying cutting edge technology to study immune cells in people with MS, compared with controls without the disease, for clues to MS development and treatment.

Lisa Barcellos, PhD  
University of California, Berkeley  
Berkeley, California  
Award: Research Grants  
Category: Epidemiology  
Strategic Area: Restore  
Approx. Funding: $421,570  
Term: 4/1/2017-3/31/2020

“Cognitive Function and Physical Disability in White, Black and Hispanic MS Patients”  This team is using a novel, web-based tool to study the influence of genetic, environmental and other clinical factors in hundreds of people with MS to help further understand why some develop worse cognitive function and physical disability.

Riley Bove, MD  
University of California, San Francisco  
San Francisco, California  
Award: Pilot Research Grants  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $42,299  
Term: 10/1/2015-3/31/2018

“Effect of a tissue selective estrogen complex on menopausal symptoms in women with MS: A pilot trial”  Determining whether a hormonal therapy approved for treating menopausal symptoms provides benefit for women with MS.

Riley Bove, MD  
University of California, San Francisco  
San Francisco, California  
Award: Career Transition Fellowships  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $406,791  
Term: 10/1/2015-9/30/2018

“Mechanisms underlying the effect of menopause on multiple sclerosis course”  Researchers at Harvard Medical School in Boston are investigating the effects of menopause on the brain in women with MS.

Kae-Jiun Chang, PhD  
University of California, San Francisco  
San Francisco, California  
Award: Postdoctoral Fellowships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $175,431  
Term: 7/1/2016-6/30/2019

“Manipulation of membrane remodeling to maximize CNS remyelination”  Investigators at the University of California, San Francisco are examining membrane-curving proteins that may play a role in making nerve-insulating myelin, and that may be targets for improving myelin repair in people with MS.
Myriam Chaumeil, PhD  
University of California, San Francisco  
San Francisco, California  
Award: Research Grants  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $566,618  
Term: 10/1/2017-9/30/2021  

“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.

Andres Cruz-Herranz, MD  
University of California, San Francisco  
San Francisco, California  
Award: Postdoctoral Fellowships  
Category: CNS Repair  
Strategic Area: Stop  
Approx. Funding: $195,427  
Term: 7/1/2015-6/30/2018  

“Longitudinal Screening of Neuroprotective Therapies in Experimental Autoimmune Encephalomyelitis with Optical Coherence Tomography”  Researchers at the University of California at San Francisco are imaging the back of the eye to visualize signs of myelin repair in mice as a means of identifying agents with potential to stimulate myelin repair in people with MS.

Richard Daneman, PhD  
University of California San Diego  
San Diego, California  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Stop  
Approx. Funding: $103,125  
Term: 10/1/2015-9/30/2018  

“Mechanisms of blood-brain barrier disruption during neuroinflammation”  University of California, San Diego researchers are studying how the barrier between the blood vessels and the brain becomes leaky, a condition in MS that allows potentially harmful cells and molecules to enter the brain from the bloodstream.

Stephen Fancy, DVM, PhD  
University of California, San Francisco  
San Francisco, California  
Award: Harry Weaver Neuroscience Scholarships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $776,123  
Term: 7/1/2017-6/30/2022  

“Oligodendroglial-vascular interactions control successful remyelination in Multiple Sclerosis”  Researchers from the University of California at San Francisco are exploring interactions between blood vessels and myelin-making cells for clues to promoting myelin repair in MS.

Carla Francisco, MD  
University of California, San Francisco  
San Francisco, California  
Award: Sylvia Lawry Physician Fellowships  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Stop  
Approx. Funding: $195,000  
Term: 7/1/2015-6/30/2018  

“Clinical Research/Sylvia Lawry”  A promising doctor at the University of California, San Francisco will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.
Meng-meng Fu, PhD  
Stanford University  
Stanford, California  
Award: Postdoctoral Fellowships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $166,724  
Term: 7/1/2015-6/30/2018

“Regulation of MBP mRNA Transport in Oligodendrocytes” Researchers at Stanford University are investigating how a protein critical to the formation of nerve-insulating myelin is made and how its message is transported, to gather information that may be critical to finding a way to repair myelin in people with multiple sclerosis.  
Funded in part by a gift from the Brodsky Family Foundation

Jennifer Graves, MD, PhD  
University of California, San Francisco  
Award: Research Grants  
Category: Human Genetics  
Strategic Area: Stop  
Approx. Funding: $502,894  
Term: 4/1/2017-3/31/2020

“The role of biological aging on progression in MS” Researchers at the University of California, San Francisco, are exploring an association between the biological process of aging and the progression of MS, for clues to stopping MS.

Ariele Greenfield, MD  
University of California, San Francisco  
Award: NMSS-ABF Clinician Scientist Development Award  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $198,867  
Term: 7/1/2016-6/30/2019

“Antigen Targets of CNS-Infiltrating B Cells in Early, Untreated Multiple Sclerosis” Researchers at the University of California, San Francisco are determining the targets of harmful immune cells called B cells in MS, which may lead to earlier, more effective treatment of MS or prevention.  
The Kathleen C. Moore Postdoctoral Fellowship

Caroline Guglielmetti, PhD  
University of California, San Francisco  
Award: Postdoctoral Fellowships  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $107,466  
Term: 7/1/2016-6/30/2019

“MR imaging of oxidative stress in multiple sclerosis” Researchers at the University of California, San Francisco are using a new type of imaging in mice to visualize oxidative stress, for clues to the possible role of oxidative stress-inducing immune cells in MS.

MAY HAN, MD  
Stanford University  
Stanford, California  
Award: Pilot Research Grants  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $43,999  
Term: 9/1/2017-8/31/2018

“Crucial role of astrocytes in CNS inflammation and remyelination” Understanding how brain cells known as astrocytes may both promote and inhibit myelin repair in a novel MS model.
Stephen Hauser, MD  
University of California, San Francisco  
San Francisco, California  
Award: Migration  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $1,375,000  
Term: 10/1/2016-9/30/2021

“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.

Varghese John, PhD  
University of California, Los Angeles  
Los Angeles, California  
Award: Pilot Research Grants  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 9/1/2016-2/28/2018

“Analysis of Bloodborne Neuronal Exosomes for Preventing Multiple Sclerosis Relapse Events”  
Developing a quick test for assessing treatment success in people with relapsing MS.

Daniel Kaufman, PhD  
University of California, Los Angeles  
Los Angeles, California  
Award: Research Grants  
Category: Preclinical Drug Development  
Strategic Area: Stop  
Approx. Funding: $594,348  
Term: 4/1/2017-3/31/2020

“Preclinical studies aimed at repurposing a clinically safe drug to help treat MS”  
Researchers at the University of California are testing a molecule for its ability to limit inflammation in MS, to stop the disease in its tracks and reduce damage.

Eve Kelland, PhD  
University of Southern California  
Los Angeles, California  
Award: Research Grants  
Category: Preclinical Drug Development  
Strategic Area: Stop  
Approx. Funding: $645,623  
Term: 4/1/2017-3/31/2020

“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.

Kristen Krysko, MD  
University of California, San Francisco  
San Francisco, California  
Award: Sylvia Lawry Physician Fellowships  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Stop  
Approx. Funding: $195,000  
Term: 7/1/2017-6/30/2020

“Application for MS Clinical Research Fellowship at UCSF”  
A promising doctor at the University of California, San Francisco will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.
**Jorge Oksenberg, PhD**  
University of California, San Francisco  
San Francisco, California  
Award: Research Grants  
Category: Tissue/DNA Banks  
Strategic Area: End  
Approx. Funding: $1,560,377  
Term: 7/1/2012-3/31/2018

“Establishment of a Core DNA Repository for Multiple Sclerosis”  
Banking genetic material from individuals and families with MS as a shared resource for studies searching for genes that confer susceptibility to MS.

**Jorge Oksenberg, PhD**  
University of California, San Francisco  
San Francisco, California  
Award: Research Grants  
Category: Human Genetics  
Strategic Area: End  
Approx. Funding: $165,000  
Term: 4/1/2016-3/31/2018

“Cell-specific microRNA profiling and function in experimental autoimmune encephalomyelitis”  
University of California, San Francisco investigators are using new methods to study a group of molecules called miRNAs specifically in myelin-making cells to understand if they may be useful targets for gene therapy to treat MS.

**David Pleasure, MD**  
University of California, Davis  
W. Sacramento, California  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $519,547  
Term: 10/1/2014-9/30/2018

“Minimizing axon loss in a murine multiple sclerosis model by conditionally deleting astroglial CCL2 (MCP-1)”  
Exploring how specific cells contribute to nerve damage and progression in a model of MS.

**David Rowitch, MD, PhD**  
University of California, San Francisco  
San Francisco, California  
Award: Pilot Research Grants  
Category: Biology of Glia  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 3/1/2017-2/28/2018

“Single cell nucleus expression profiling of astrocyte diversity in human multiple sclerosis lesions”  
Using cutting edge technology to explore a mechanism for MS damage.

**Joseph Sabatino, MD, PhD**  
University of California, San Francisco  
San Francisco, California  
Award: NMSS-ABF Clinician Scientist Development  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $213,981  
Term: 7/1/2016-6/30/2019

“Myelin-specific CD8+ T cell pathogenicity in multiple sclerosis”  
Investigators at the University of California, San Francisco are examining the possible role of a type of immune cell in causing and/or worsening MS to determine if blocking these cells could lead to a more specific therapy for MS.
Lucas Schirmer, MD
University of California, San Francisco
San Francisco, California
Award: Postdoctoral Fellowships
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $201,135
Term: 7/1/2017-6/30/2020

“Understanding and modulating astrocyte diversity in MS and experimental demyelination”
Researchers at the University of California at San Francisco are investigating characteristics of the various types of astrocytes, a cell type that forms scars and blocks repair in lesions found in the brain in MS.
Funded in part by the Dave Tomlinson Research Fund

Ryan Schubert, MD
University of California, San Francisco
San Francisco, California
Award: NMSS-ABF Clinician Scientist Development
Category: Immunology
Strategic Area: Stop
Approx. Funding: $269,394
Term: 7/1/2017-6/30/2020

“Using comprehensive phage display coupled with next-generation sequencing to define the evolution of autoantibodies and viral antibodies in the two years after a first demyelinating event”
Researchers at the University of California at San Francisco are looking for antibody “signatures” in fluid samples that can predict which of those individuals with a first neurological event will go on to develop definite MS.

Fu-Dong Shi, MD, PhD
St. Joseph's Hospital and Medical Center
Los Angeles, California
Award: Research Grants
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $438,900
Term: 4/1/2016-3/31/2019

“Neurorepair following brain inflammation” Researchers at St. Joseph's Hospital and Medical Center in Phoenix are investigating a type of cell that may play a role in inhibiting nervous system repair in MS, for clues to restoring function in people with MS.

Nancy Sicotte, MD
Cedars-Sinai Medical Center
Los Angeles, California
Award: Pilot Research Grants
Category: Human Genetics
Strategic Area: Stop
Approx. Funding: $43,990-PENDING
Term: 11/1/2017-10/31/2018

“Genetic, serologic, and clinical predictors of TNF-α associated demyelination” Researchers at Cedars-Sinai Medical Center are seeking to understand what factors contribute to development of MS-like disease after administration of TNF-alpha blockers.

Athena Soulika, PhD
University of California, Davis
W. Sacramento, California
Award: Research Grants
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $652,582
Term: 10/1/2017-9/30/2020

“Novel lipid-mediated mechanism controls oligodendrocyte maturation” Investigators at the University of California, Davis, are exploring a new strategy for repairing nerve-insulating myelin and restoring function in MS.
Seema Tiwari-Woodruff, PhD
University of California, Riverside, California
Award: Pilot Research Grants
Category: Neuropathology
Strategic Area: Restore
Approx. Funding: $44,000
Term: 3/1/2017-2/28/2018

“MS and Seizures: from postmortem brains to animal models” Investigating why seizures occur in some people with MS, for clues to reducing this difficult symptom.

Jeff Wall, PhD
University of California, San Francisco, California
Award: Pilot Research Grants
Category: Human Genetics
Strategic Area: Stop
Approx. Funding: $44,000
Term: 3/1/2017-2/28/2018

“Development of Japanese macaque encephalomyelitis as a model for MS” Exploring a new laboratory model for MS.

James Waschek, PhD
University of California, Los Angeles, California
Award: Research Grants
Category: Neuropathology
Strategic Area: Stop
Approx. Funding: $496,965
Term: 10/1/2015-9/30/2018

“Molecular dissection of neuroprotective and immunoprotective actions of PACAP signaling in the retina in murine EAE” Researchers at the University of California, Los Angeles are investigating a molecule called PACAP to see if it has potential for protecting the visual system from damage caused by MS.

Emmanuelle Waubant, MD, PhD
University of California, San Francisco, California
Award: Research Grants
Category: Epidemiology
Strategic Area: End
Approx. Funding: $542,554
Term: 4/1/2013-3/31/2018

“Microbiomes in pediatric multiple sclerosis” Understanding the association between microbes in the digestive tract and the risk of developing MS in childhood.

Funded in part by a gift from an Anonymous Donor in honor of JoAnn LeMaistre, PhD

Emmanuelle Waubant, MD, PhD
University of California, San Francisco, California
Award: Research Grants
Category: Epidemiology
Strategic Area: Stop
Approx. Funding: $1,192,799
Term: 10/1/2017-9/30/2020

“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.
Scott Zamvil, MD, PhD
University of California, San Francisco
San Francisco, California
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $633,840
Term: 4/1/2015-3/31/2018

“Nrf2-dependent and –independent immune modulation by dimethyl fumarate in CNS autoimmunity” University of California, San Francisco researchers are investigating how an approved MS therapy called Tecfidera works to dampen the harmful effects of the immune system.

Scott Zamvil, MD, PhD
University of California, San Francisco
San Francisco, California
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $632,348
Term: 10/1/2017-9/30/2020

“Negative selection regulates development of pathogenic AQP4-specific T cells” Researchers at the University of California, San Francisco are investigating abnormal immune cell development in a disease called neuromyelitis optica that resembles MS in some ways.

J. Bradley Zuchero, PhD
Stanford University
Stanford, California
Award: Career Transition Fellowships
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $581,647
Term: 7/1/2014-6/30/2019

“What is the cellular mechanism of CNS myelin wrapping?” Can understanding the role of cellular scaffolding in the formation of nerve-insulating myelin provide new targets to promote myelin repair in MS? Funded in part by a gift from an Anonymous Donor in honor of JoAnn LeMaistre, PhD

COLORADO
John Corboy, MD
University of Colorado Denver
Denver, Colorado
Award: Research Grants
Category: Tissue/DNA Banks
Strategic Area: End
Approx. Funding: $1,026,944
Term: 10/1/2013-9/30/2018

“Rocky Mountain MS Center Tissue Bank” Developing and maintaining a tissue bank of specimens from people with MS for use in research.

John Corboy, MD
University of Colorado Denver
Denver, Colorado
Award: Strategic Initiatives - 2016
Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $326,464
Term: 10/1/2016-9/30/2021

“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.
Ethan Hughes, PhD  
University of Colorado Denver  
Denver, Colorado  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $586,687  
Term: 10/1/2017-9/30/2020

“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.

Wendy Macklin, PhD  
University of Colorado Denver  
Denver, Colorado  
Award: Collaborative Research Center Awards  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $742,500  
Term: 4/1/2013-3/30/2018

“Mechanisms of glial injury in demyelinating disorders” Exploring brain cell interactions to shed new light on how damage occurs in MS and how to reverse the process to restore function to people with MS.  
*Funded jointly by the Hackstock Family Foundation and the National MS Society Colorado-Wyoming Chapter*

Wendy Macklin, PhD  
University of Colorado Denver  
Denver, Colorado  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $628,325  
Term: 4/1/2015-3/31/2018

“Developing zebrafish as a drug screen model” University of Colorado researchers are investigating the usefulness of a type of fish called zebrafish to rapidly screen drugs that may someday be useful for stimulating repair of nerve-insulating myelin in people with MS.

Gregory Owens, PhD  
University of Colorado Denver  
Denver, Colorado  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $610,077  
Term: 10/1/2017-7/1/2020

“Mechanisms of CNS injury in MS antibody-mediated demyelination” Researchers at the University of Colorado are investigating how antibodies found in the cerebrospinal fluid of people with MS cause MS-like damage in mice, and the implications for treating MS.

CONNECTICUT  
Jaime Grutzendler, MD  
Yale University  
New Haven, Connecticut  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $330,000  
Term: 10/1/2016-9/30/2019

“Local astrocyte contributions to myelin repair” Yale University researchers are exploring how cells called astrocytes contribute to the repair of nerve-insulating myelin and implications for promoting myelin repair in MS.
David Hafler, MD
Yale University  
New Haven, Connecticut  
Award: Collaborative Research Center Awards  
Category: Human Genetics  
Strategic Area: End  
Approx. Funding: $825,000  
Term: 4/1/2015-3/31/2020

“Collaborative MS Research Center Award: Systematic Genome Editing of the Risk Variants in Multiple Sclerosis” Researchers at Yale, Harvard, and two University of California institutions have teamed up to apply highly advanced technology to manipulate MS risk genes to tease out the exact pathways by which MS develops.

Alexandra Kitz, PhD
Yale University School of Medicine  
New Haven, Connecticut  
Award: Postdoctoral Fellowships  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $175,431  
Term: 7/1/2016-6/30/2019

“Role of Akt kinases in regulating high-salt induced Treg dysfunction” Yale researchers are using immune cells from the blood of healthy people and people with newly diagnosed MS to investigate how high salt may switch a helpful type of immune cell called Tregs to a harmful type called Th1 Tregs and if the helpful function c

Liliana Lucca, PhD
Yale University  
New Haven, Connecticut  
Award: Postdoctoral Fellowships  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $178,467  
Term: 7/1/2017-6/30/2020

“The role of the co-inhibitory receptor TIGIT in the immune deregulation of MS patients” Investigators at Yale University are testing the idea that a molecule called TGIT, which is present on certain immune cells, turns down inflammation in healthy people but is unable to dampen inflammation in people with MS.

Akiko Nishiyama, MD, PhD
University of Connecticut  
Storrs, Connecticut  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $610,077  
Term: 10/1/2017-9/30/2020

“Neuronal activity-dependent regulation of remyelination and chromatin remodeling” Researchers from the University of Connecticut and University of Paris are using cutting-edge technology to explore a novel possibility for restoring damaged nerve-insulating myelin.

Joel Pachter, PhD
University of Connecticut Health Center  
Farmington, Connecticut  
Award: Research Grants  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $671,350  
Term: 10/1/2017-9/30/2020

“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.
David Pitt, MD
Yale University
New Haven, Connecticut
Award: Research Grants
Category: Biology of Glia
Strategic Area: End
Approx. Funding: $311,752
Term: 4/1/2017-3/31/2019

“NFκB-related MS risk variants drive excessive activation of astrocytes in multiple sclerosis”
Researchers at Yale University are exploring a novel pathway by which newly discovered genetic variants in people with MS may promote changes that result in inflammatory damage, for clues to stopping and ending MS.

Li Wen, MD, PhD
Yale University School of Medicine
New Haven, Connecticut
Award: Pilot Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $44,000-PENDING
Term: 11/1/2017-10/31/2018

“The role of IgA-bound gut bacteria in MS” Investigators are identifying which gut bacteria can stimulate the immune system and possibly promote the development of MS.

DISTRICT OF COLUMBIA
Vittorio Gallo, PhD
The Children’s National Medical Center
Washington, District of Columbia
Award: Research Grants
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $538,351
Term: 10/1/2016-9/30/2019

“Signaling mechanisms underlying Sox17-mediated oligodendrocyte generation and repair” Researchers at Children’s National Medical Center in Washington, DC, are investigating a molecule that influences the development of cells that make nerve-insulating myelin, for clues to promoting nervous system repair in MS.

Mitchell Wallin, MD, MPH
Institute for Clinical Research, Inc.
Washington, District of Columbia
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Restore
Approx. Funding: $441,744
Term: 10/1/2017-9/30/2019

“Multiple Sclerosis Telehealth Utilization Project” Researchers at the VA Multiple Sclerosis Center of Excellence-East (Baltimore & Washington, DC) along with collaborators in Boston, MA and Palo Alto, CA are investigating the use of technology to deliver specialty care remotely to people with MS, with the

FLORIDA
Dorina Avram, PhD
University of Florida
Gainesville, Florida
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $515,536
Term: 5/1/2015-3/31/2018

“A novel ubiquitin ligase with role in EAE severity” Can understanding a regulator of immune cell function translate into the development of a treatment to stop immune attacks in MS?
Brad Hoffman, PhD
University of Florida
Gainesville, Florida
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $569,647
Term: 4/1/2015-3/31/2018

“In Vivo Induction of Antigen Specific T-Cell Tolerance to a Neuro-Antigen by AAV Hepatic Gene Therapy” University of Florida researchers are exploring a way to prevent or treat MS, using the EAE model, by inducing immune tolerance.

GEORGIA
Hong Jiang, MD, PhD
University of Miami
Atlanta, Georgia
Award: Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $540,835
Term: 4/1/2016-3/31/2019

“The role of retinal microvascular impairment on neurodegeneration in Multiple Sclerosis” University of Miami researchers are studying blood vessels at the back of the eye of people with MS to better understand nerve damage and MS progression.

Priya Narayanan, PhD
Georgia Regents University
Augusta, Georgia
Award: Pilot Research Grants
Category: Neuropathology
Strategic Area: Restore
Approx. Funding: $44,000
Term: 11/1/2016-1/1/2018

“Role of Arginase in Multiple Sclerosis Mediated Retinal Neuronal Injury” Exploring a possible source of vision problems in mouse models of MS, for clues to restoring function in people with MS.

ILLINOIS
Alexander Aruin, DSc
University of Illinois at Chicago
Chicago, Illinois
Award: Mentor-Based Postdoctoral Fellowships
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $405,990
Term: 7/1/2012-6/30/2018

“Rehabilitation research training to enhance functional performance in MS” Training young scientists to conduct research in rehabilitation approaches to help people with MS achieve higher quality of life and maximal function.

Paid in part by special funds provided by the Illinois Lottery

Alexander Aruin, DSc
University of Illinois at Chicago
Chicago, Illinois
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $43,900
Term: 4/1/2016-6/30/2018

“Enhancement of Anticipatory Postural Control in Individuals with Multiple Sclerosis” Investigating a method of improving balance in people with MS.
Melissa Brown, PhD  
Northwestern University  
Evanston, Illinois  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $589,722  
Term: 4/1/2015-3/31/2018  
“c-kit differentially regulates EAE susceptibility in male and female SJL mice”  
Northwestern University researchers are testing the role of a molecule called c-kit in sex-specific differences in the immune response and protection of neurons in a rodent model of MS called EAE.  
Paid by special funds provided by the Illinois Lottery

Veronica Cipriani, MD  
University of Chicago Medical Center  
Chicago, Illinois  
Award: Sylvia Lawry Physician Fellowships  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $130,000  
Term: 7/1/2016-6/30/2018  
“Assessing Cognition and Cognitive Impairment in Multiple Sclerosis through Training in Clinical Trials”  
A promising doctor at the University of Chicago Medical Center will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

William Conte, MD  
University of Chicago  
Chicago, Illinois  
Award: Sylvia Lawry Physician Fellowships  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $130,000  
Term: 7/1/2017-6/30/2019  
“Dysphagia in multiple sclerosis”  
A promising doctor at the University of Chicago Medical Center will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Douglas Feinstein, PhD  
University of Illinois at Chicago  
Chicago, Illinois  
Award: Research Grants  
Category: Neuropathology  
Strategic Area: Stop  
Approx. Funding: $651,000  
Term: 10/1/2015-9/30/2018  
“Neuroprotective effects of the CRMP2 activator lanthionine ketimine ester in EAE”  
Researchers from the University of Illinois are testing the possibility that a natural brain molecule called lanthionine ketimine can prevent neurodegeneration in a mouse model of progressive MS.

Naiman Khan, PhD  
University of Illinois at Urbana-Champaign  
Springfield, Illinois  
Award: Pilot Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Restore  
Approx. Funding: $43,051  
Term: 3/1/2017-2/28/2019  
“Retinal Lutein and Visual Health in Multiple Sclerosis”  
Testing whether dietary factors play a role in vision problems in MS.
Sherri LaVela, MBA, MPH, PhD
CARES - Chicago Association for Research and Education in Science
Chicago, Illinois
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $43,993-PENDING
Term: 11/1/2017-10/31/2018
“Evaluating the Use of Acute Intermittent Hypoxia to Enhance Motor Function in Persons with Multiple Sclerosis” Investigators from the Chicago Association of Research and Education in Science are evaluating motor function of the lower limbs and whether a novel therapy strengthens the ankle and muscles.

Eun-Jeong Lee, PhD
Illinois Institute of Technology
Chicago, Illinois
Award: Pilot Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Restore
Approx. Funding: $43,916
Term: 9/1/2016-2/28/2018
“Microaggressions experienced by people with MS in the workplace: an exploratory study” Examining the impact of a possible source of workplace discrimination for clues to improving employment among people with MS.

Howard Lipton, MD
University of Illinois at Chicago
Chicago, Illinois
Award: Research Grants
Category: Infectious Agents
Strategic Area: End
Approx. Funding: $383,139
Term: 4/1/2015-3/31/2018
“Generic approaches for detecting a virus in MS in acute demyelinating lesions” University of Illinois at Chicago researchers are devising a method to detect the presence of viruses in newly forming MS lesions, in hopes of identifying the cause of MS and preventing its development.

Paid by special funds provided by the Illinois Lottery

Robert Motl, PhD
University of Alabama at Birmingham
Birmingham, Alabama
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Restore
Approx. Funding: $363,811
Term: 1/1/2017-12/31/2018
“Project COMPLETe: Coordinated Multiple Sclerosis Exercise Toolkit” Researchers are developing a set of tools to promote physical activity in people with MS, which is expected to reduce disability and improve quality of life.

Paid by special funds provided by the Illinois Lottery

Brian Popko, PhD
University of Chicago
Chicago, Illinois
Award: Research Grants
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $626,735
Term: 10/1/2015-9/30/2018
“Investigating the role that ZFP191 phosphorylation state plays in regulating oligodendrocyte maturation” University of Chicago researchers are studying a molecular “switch” that may be a key to turning on the repair processes of nerve-insulating myelin to restore function to people with MS.

Paid by special funds provided by the Illinois Lottery
Laura Rice, PT, PhD  
University of Illinois at Urbana-Champaign  
Springfield, Illinois  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $570,217  
Term: 10/1/2017-9/30/2020  

“Validation of a Fall Prevention Program Among Non-Ambulatory Wheeled Mobility Device Users with Multiple Sclerosis”  Researchers at the University of Illinois at Urbana-Champaign are developing a program designed to help prevent falling for people with MS who are wheelchair users.

Jacob Sosnoff, PhD  
University of Illinois at Urbana-Champaign  
Springfield, Illinois  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $627,770  
Term: 10/1/2014-9/30/2018  

“Fall Risk and Incidence Reduction in Multiple Sclerosis”  Testing an exercise program to reduce the risk of falling in older people with MS.  

Paid by special funds provided by the Illinois Lottery

Haley Titus, PhD  
Northwestern University Feinberg School of Medicine  
Evanston, Illinois  
Award: Postdoctoral Fellowships  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $161,218  
Term: 7/1/2015-6/30/2018  

“Immunoregulatory and myelin repair therapies in T cell-mediated mouse models of Multiple Sclerosis.”  Researchers at Northwestern University in Chicago are trying to develop a possible two-step approach to therapy for MS, making the immune system tolerant of myelin rather than attacking it, and promoting myelin repair. 

Paid by special funds provided by the Illinois Lottery

INDIANA  
Peter Altenburger, PT, PhD  
Indiana University  
Bloomington, Indiana  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $33,000  
Term: 9/1/2016-8/31/2018  

“G-EO Gait Rehabilitation Training in Progressive Multiple Sclerosis”  A trial testing a novel method of improving walking in people with progressive MS.

IOWA  
Alexander Boyden, PhD  
The University of Iowa  
Iowa City, Iowa  
Award: Postdoctoral Fellowships  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $161,218  
Term: 7/1/2015-6/30/2018  

“The role of CD8+ regulatory T cells in modulating B cell function during EAE”  Researchers at the University of Iowa are investigating the influence of two types of immune cells on each other to better understand and treat MS.
Nitin Karandikar, MD, PhD
The University of Iowa
Iowa City, Iowa
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $712,800
Term: 4/1/2013-3/31/2018
“Role of CNS-specific autoreactive CD8+ T cells in MS” Looking for ways to treat MS by improving the action of cells that control the immune system attack on myelin.

Ashutosh Mangalam, PhD
The University of Iowa
Iowa City, Iowa
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $563,531
Term: 4/1/2015-3/31/2018
“Therapeutic potential of combination therapy using Human Gut-derived commensal bacteria and conventional MS drugs” Testing the beneficial effects of gut bacteria in MS models.

Stanley Perlman, MD, PhD
The University of Iowa
Iowa City, Iowa
Award: Research Grants
Category: Infectious Agents
Strategic Area: Stop
Approx. Funding: $523,297
Term: 4/1/2015-3/31/2018
“Pathogenesis of Demyelination in Mice Infected with a Neurotropic Coronavirus” University of Iowa researchers are investigating ways to manipulate the immune system in a way that turns off the harmful effects and maintains the helpful effects as a strategy for treating MS.

Terry Wahls, MD
The University of Iowa
Iowa City, Iowa
Award: Research Grants
Category: Human Therapy Trials/Management of MS
Strategic Area: Restore
Approx. Funding: $1,098,981
Term: 7/1/2016-6/30/2020
“Dietary Approaches to Treating Multiple Sclerosis Related Fatigue” A team at the University of Iowa is comparing two dietary approaches to determine their effectiveness for treating MS-related fatigue.

KANSAS

Hannes Devos, PT, PhD
University of Kansas Medical Center
Kansas City, Kansas
Award: Pilot Research Grants
Category: Neurophysiology
Strategic Area: Stop
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018
“The Eyes Have It: Use of Pupillometry to Assess Cognition in Multiple Sclerosis” Testing a novel method of assessing cognitive function through measuring the pupil in people with MS.
Steven LeVine, PhD
Kansas City, Kansas
Award: Pilot Research Grants
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $44,000
Term: 11/1/2017-10/31/2018

“High Dose Biotin Therapy and Remyelination” Researchers from the University of Kansas Medical Center are investigating how high dose biotin therapy might act to promote myelin repair processes in people with MS.

Catherine Siengsukon, PT, PhD
University of Kansas Medical Center
Kansas City, Kansas
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $44,000
Term: 11/1/2017-10/31/2018

“Assessing the Feasibility of Cognitive Behavioral Therapy for Insomnia in Individuals with MS with Symptoms of Insomnia” Researchers at the University of Kansas Medical Center are assessing the feasibility of using cognitive behavioral therapy to improve MS symptoms of reduced sleep quality and fatigue in individuals with MS with symptoms of insomnia.

KENTUCKY
Malachy Bishop, PhD
University of Kentucky
Lexington, Kentucky
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery and Policy
Strategic Area: Stop
Approx. Funding: $206,300
Term: 12/12/2016-12/31/2018

“Impact of the NMSS Strategic Plan” Analyzing the impact on the quality of life of people affected by MS resulting from the work of the National MS Society.

Arnold Stromberg, PhD
University of Kentucky
Lexington, Kentucky
Award: Pilot Research Grants
Category: Human Genetics
Strategic Area: End
Approx. Funding: $43,080
Term: 3/1/2017-2/28/2018

“Identifying Gene or SNP based Interactions in Multiple Sclerosis Datasets” Developing novel genetics technology to assess the numerous genetic interactions that contribute to the development of MS.

MARYLAND
Martina Absinta, MD
National Institutes of Health
Bethesda, Maryland
Award: Postdoctoral Fellowships
Category: Neuropathology
Strategic Area: Stop
Approx. Funding: $191,042
Term: 1/1/2016-12/31/2018

“Chronic Inflammation and Remyelination Failure in MS Lesions: in vivo and Postmortem Investigation of Chronic Lesions with Phase Rims” Researchers at the National Institutes of Health in Bethesda are using an advanced type of MRI to examine lesions with subtle inflammation in the brains of people with MS to better understand how inflammation affects myelin repair.
Erin Beck, MD, PhD
National Institute of Neurological Disorders and Stroke
Bethesda, Maryland
Award: NMSS-ABF Clinician Scientist Development Award
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $194,394
Term: 7/1/2016-6/30/2019
“Characterization of the pathophysiology, dynamics, and clinical implications of cortical demyelination in MS” Researchers at the National Institute of Neurological Disorders and Stroke are improving magnetic resonance imaging to allow better monitoring of disease progression in people with MS.

Meghan Beier, Ph.D.
Johns Hopkins University
Baltimore, Maryland
Award: Pilot Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Restore
Approx. Funding: $44000
Term: 3/1/2017-2/28/2019
“200 to 2,000: Expanding the Scope of Multiple Sclerosis Cognitive Research by Establishing the Reliability of a Web-based Cognitive Assessment” Developing a web-based tool for assessing cognitive changes in people with MS.

Meghan Beier, PhD
Johns Hopkins University
Baltimore, Maryland
Award: Mentor-Based Postdoctoral Fellowships
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $242,512
Term: 4/1/2017-3/31/2020
“Advancing multiple sclerosis research through neuroscience” This training program will equip two fellows with crucial clinical and research skills necessary to conduct rehabilitation research aimed at improving wellness for people with MS.

Pavan Bhargava, MD
Johns Hopkins University
Baltimore, Maryland
Award: Career Transition Fellowships
Category: Immunology
Strategic Area: Stop
Approx. Funding: $457,540
Term: 7/1/2016-6/30/2021
“Targeting Leptomeningeal Inflammation for Progressive Multiple Sclerosis” Researchers at Johns Hopkins University are working to establish a better model of progressive MS that will permit research into understanding and treating inflammation of the meninges, the tissue that covers the brain.

Jeff Bulte, PhD
Johns Hopkins University
Baltimore, Maryland
Award: Research Grants
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $681,654
Term: 4/1/2014-3/31/2018
“Immunomodulation and Remyelination by Transplanted Stem Cells and Progenitors: A Two-Prong Approach” Can cell therapy reduce immune attacks and at the same time also stimulate the repair of nerve-insulating myelin in an MS model?
Funded in part by a gift from the National MS Society Greater Delaware Valley Chapter
Kathleen Burns, MD, PhD
Johns Hopkins University
Baltimore, Maryland
Award: Pilot Research Grants
Category: Human Genetics
Strategic Area: End
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018

“Molecular basis of MS risk at the CD58 locus” Determining the significance of a sequence of genetic material inherited by people with MS.

Alessandra De Paula Alves Sousa, PhD
National Institute of Neurological Disorders and Stroke
Bethesda, Maryland
Award: Postdoctoral Fellowships
Category: Immunology
Strategic Area: Stop
Approx. Funding: $161,040
Term: 7/1/2015-6/30/2018

“Deep sequencing of T-cell receptor repertoire in patients with neurological immune-mediated disorders” Researchers at the National Institute of Neurological Disorders and Stroke are using advanced technology to identify immune cell abnormalities in people with MS, for clues to improving treatment approaches.

Kathryn Fitzgerald, DSc
Johns Hopkins University
Baltimore, Maryland
Award: Postdoctoral Fellowships
Category: Epidemiology
Strategic Area: End
Approx. Funding: $187,527
Term: 7/1/2016-6/30/2019

“Integrative Analysis of Multiple Sclerosis Risk and Progression” Researchers at Johns Hopkins are conducting studies characterizing how vitamin D protects individuals from getting MS and looking at genetic predictors of changes and progression in MS using measures of the eye.

Joe Gasper, PhD
Westat
Rockville, Maryland
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Restore
Approx. Funding: $989,434
Term: 10/1/2015-9/30/2018

“Cost-Benefit Analysis of Multiple Sclerosis Adult Day Programs” Westat investigators are surveying benefits and costs of MS adult day programs to document their impact on quality of life for people with MS and their caregivers, to expand their availability.

Funded by a gift from the Conrad N. Hilton Foundation

Daniel Harrison, MD
University of Maryland, Baltimore
Baltimore, Maryland
Award: Pilot Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $43,958
Term: 10/1/2015-3/31/2018

“Is leptomeningeal contrast enhancement on 7 Tesla FLAIR MRI related to meningeal lymphoid follicles?” Exploring whether inflammation is present in progressive MS using high field MRI.
Christopher Jewell, PhD  
University of Maryland - College Park  
Category: Immunology  
College Park, Maryland  
Strategic Area: Stop  
Award: Research Grants  
Approx. Funding: $598,715  
Term: 10/1/2015-9/30/2018  
“Harnessing intra-lymph node controlled release to promote myelin-specific tolerance” Researchers at the University of Maryland are investigating a strategy that may help turn off the harmful aspects of the immune system that occur in MS while leaving beneficial functions of the immune system intact.

Yong Chan Kim, PhD  
Henry M. Jackson Foundation  
Category: Preclinical Drug Development  
Bethesda, Maryland  
Strategic Area: Stop  
Award: Pilot Research Grants  
Approx. Funding: $44,000  
Term: 11/1/2017-10/31/2018  
“Development of AQP4 BAR-Tregs to suppress anti-AQP4 autoantibody response in Neuromyelitis Optica” Researchers are developing an innovative therapeutic strategy to treat an MS-like disease.

Michael Kornberg, MD, PhD  
Johns Hopkins University  
Category: Biochem./Biophysics  
Baltimore, Maryland  
Strategic Area: Stop  
Award: NMSS-ABF Clinician Scientist Award  
Approx. Funding: $259,590  
Term: 7/1/2015-6/30/2018  
“The role and therapeutic potential of nitric oxide-induced nuclear GAPDH signaling in multiple sclerosis.” Researchers at Johns Hopkins University are conducting preliminary lab tests to understand whether a therapy called selegeline may be useful for treating MS by blocking the harmful effects of a molecule called nitric oxide.

Ellen Mowry, MD, MPH  
Johns Hopkins University  
Category: Human Therapy Trials/Management  
Baltimore, Maryland  
Strategic Area: Stop  
Award: Research Grants  
Approx. Funding: $1,728,703  
“A randomized controlled trial of vitamin D supplementation in multiple sclerosis” A clinical trial investigating whether vitamin D supplements can alter disease activity in people with MS who are taking a standard therapy.  
*Funded by a gift from the National MS Society Greater Delaware Valley Chapter*

Ellen Mowry, MD, MPH  
Johns Hopkins University  
Category: Human Therapy Trials/Management  
Baltimore, Maryland  
Strategic Area: Stop  
Award: Harry Weaver Neuroscience Scholarships  
Approx. Funding: $781,377  
Term: 7/1/2015-6/30/2020  
“A pilot study of intermittent calorie restriction in multiple sclerosis” Researchers at Johns Hopkins University in Baltimore are doing a pilot trial testing the safety and tolerability of a diet that intermittently restricts calorie intake as a treatment for disease activity in people with MS.
**Scott Newsome, DO**  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $266,907  
Term: 4/1/2015-3/31/2018

“A Phase 1b, open-label study to evaluate the safety and tolerability of the putative remyelinating agent, liothyronine, in individuals with MS”  
Johns Hopkins University researchers are performing a pilot clinical trial of people with MS to test a new therapy called liothyronine for its potential to improve repair of nerve-insulating myelin and protect nerve fibers.

**Jiwon Oh, MD**  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $500,000  
Term: 10/1/2016-9/30/2019

“Leptomeningeal Inflammation in Multiple Sclerosis: A Prospective MRI Study”  
Johns Hopkins University researchers are exploring a novel imaging finding that may yield clues to understanding and stopping the progression of MS.

**Dzung Pham, PhD**  
Henry M. Jackson Foundation  
Bethesda, Maryland  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $576,675  
Term: 4/1/2016-3/31/2019

“Imaging Biomarker Discovery With Advanced Brain Segmentation Algorithms”  
Researchers at the National Institutes of Health are developing software tools to automatically measure MRI-detected brain lesions in MS to improve diagnosis and clinical trials.

**Shiv Saidha, MD**  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $494,401  
Term: 4/1/2017-3/31/2020

“In-vivo investigation of trans-synaptic neurodegeneration in multiple sclerosis”  
Researchers at Johns Hopkins University are testing new methods of assessing nerve cell damage, involving the visual system, to determine its value for predicting more severe MS.

**David Scott, PhD**  
Henry M. Jackson Foundation  
Bethesda, Maryland  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $485,942  
Term: 10/1/2017-9/30/2020

“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.
Thomas Shoemaker, MD  
Johns Hopkins University School of Medicine  
Baltimore, Maryland  
Award: Sylvia Lawry Physician Fellowships  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Stop  
Approx. Funding: $130,000  
Term: 7/1/2016-6/30/2018  

“MS Clinical Trials Fellowship”  
A promising doctor at Johns Hopkins University will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Barbara Slusher, PhD  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Category: Preclinical Drug Development  
Strategic Area: Restore  
Approx. Funding: $654,166  
Term: 4/1/2016-3/31/2019  

“Development of 2-PMPA prodrugs for the treatment of cognitive impairment in multiple sclerosis”  
Researchers at Johns Hopkins University are developing versions of a promising compound for possible use in improving cognitive function in MS.

Elias Sotirchos, MD  
Johns Hopkins University School of Medicine  
Baltimore, Maryland  
Award: Sylvia Lawry Physician Fellowships  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Stop  
Approx. Funding: $195,000  
Term: 7/1/2017-6/30/2020  

“Sylvia Lawry Physician Fellowship”  
A promising doctor at Johns Hopkins University will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Katharine Whartenby, PhD  
Johns Hopkins University  
Baltimore, Maryland  
Award: Research Grants  
Category: Infectious Agents  
Strategic Area: Stop  
Approx. Funding: $731,878  
Term: 10/1/2015-9/30/2018  

“Mechanisms of Increased Morbidity and Mortality of Influenza Infections in People with MS”  
Researchers at Johns Hopkins University are studying mice with MS-like disease that are infected with flu virus to investigate why flu is dangerous for people with MS.

Chuan Wu, MD, PhD  
National Cancer Institute, National Institutes of Health  
Bethesda, Maryland  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $375,000  
Term: 7/1/2017-6/30/2020  

“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?
Ai-Hong Zhang, PhD  
Henry M. Jackson Foundation  
Bethesda, Maryland  
Award: Pilot Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 11/1/2016-10/31/2018

“BAR regulatory T cell therapy for targeting CNS antigen-specific B cells” Testing the feasibility of targeting brain-specific immune B cells with other immune cells to treat MS.

MASSACHUSETTS
Clare Baecher-Allan, PhD  
Brigham and Women's Hospital  
Boston, Massachusetts  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $593,988  
Term: 4/1/2016-3/31/2019

“Myeloperoxidase in multiple sclerosis” Researchers at Harvard are using MRI to track a harmful inflammatory molecule called MPO as a possible biomarker of disease activity, and devising ways to block its effects as a potential treatment for MS.

John Chen, MD, PhD  
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $591,389  
Term: 4/1/2016-3/31/2019

“Distribution and predictors of disease severity in pediatric MS” Investigators at Massachusetts General Hospital are evaluating what proportion of children with MS experience a severe course of the disease.

Tanuja Chitnis, MD  
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Pilot Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 11/1/2017-10/31/2018

“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.
Stefanie Giera, PhD  
Boston Children’s Hospital  
Boston, Massachusetts  
Award: Postdoctoral Fellowships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $178,391  
Term: 7/1/2015-6/30/2018  

“Characterization of a novel G protein-coupled receptor in oligodendrocyte development”  
Researchers at Boston Children’s Hospital are investigating the importance of a specific molecule in the ability of myelin-making cells to mature and make nerve-insulating myelin, for clues to promoting myelin repair in MS.  
The Thorsten Eickenhorst Postdoctoral Fellowship

Bonnie Glanz, PhD  
Brigham and Women’s Hospital  
Boston, Massachusetts  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $44,000  
Term: 4/1/2015-3/31/2018  

“A Phase I Randomized Controlled Trial to Improve Speed of Information Processing in Patients with Multiple Sclerosis”  
A trial testing a method of computerized cognitive rehabilitation in MS.

Murugaiyan Gopal, PhD  
Brigham and Women’s Hospital  
Boston, Massachusetts  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $274,308  
Term: 4/1/2016-3/31/2019  

“MicroRNA Control of Inflammatory T cells in EAE and MS”  
Researchers at Harvard Medical School are investigating how a small, naturally occuring molecule regulates the function of harmful types of immune cells in MS.

Charles Guttmann, MD  
Brigham and Women’s Hospital  
Boston, Massachusetts  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Restore  
Approx. Funding: $651,000  
Term: 10/1/2015-9/30/2018  

“Neurogenic Determinants of Fatigue in MS”  
Researchers at Harvard Medical School are investigating the relationship between fatigue in people with MS and damage to a particular circuit in the brain using advanced imaging techniques.

Elena Herranz Muelas, PhD  
Massachusetts General Hospital  
Boston, Massachusetts  
Award: Postdoctoral Fellowships  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $111,145  
Term: 7/1/2016-6/30/2018  

“In vivo MR-PET imaging of glial activation and its correlates in MS”  
Researchers at Massachusetts General Hospital and Harvard Medical School are investigating new brain imaging methods for inflammation to increase understanding of MS disease progression and response to treatment.
“Targeting ApoE pathway to restore unique microglial properties in EAE.” Researchers at Brigham and Women’s Hospital in Boston are exploring the role of immune cells in the brain called microglia and their possible role in nervous system damage in people with MS.

“Light Therapy for Fatigue in Multiple Sclerosis” A trial testing whether light therapy reduces fatigue in people with MS.

“The Optimizing Treatment - Understanding Progression (OPT-UP) Clinical Research Study” The Optimizing Treatment - Understanding Progression (OPT-UP) Clinical Research Study

“A comprehensive analysis of the direct and indirect costs of multiple sclerosis” Documenting the complete costs of MS to individuals and society, providing much-needed statistics to aid advocacy for improved health care and quality of life.
Sarah Minden, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery and Policy Research Contracts
Strategic Area: Stop
Approx. Funding: $329,613
Term: 10/1/2011-12/31/2018

“The impact of out of pocket health-related costs on people with MS and their families” A detailed analyses of what people with MS spend on out-of-pocket health care costs and how this affects care and quality of life.

Sarah Minden, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy Research Contracts
Strategic Area: Stop
Approx. Funding: $698,337
Term: 10/1/2012-12/31/2018

“Financial implications of informal (unpaid) caregiving” The economic impacts for family members who provide care to people with MS.

Sarah Minden, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy Research Contracts
Strategic Area: Stop
Approx. Funding: $411,387-PENDING
Term: 10/1/2017-9/30/2019

“What is the extent to which people with MS utilize complementary and alternative medicine (CAM)?” Investigators at the Brigham & Women's Hospital and collaborators are launching an extensive effort to understand complementary and alternative medicine use in MS.

Sarah Minden, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Pilot Research Grants
Category: Health Care Delivery/ Policy Research Grants
Strategic Area: Stop
Approx. Funding: $44,000
Term: 10/1/2015-12:00:00 AM

“Feasibility of using telehealth to improve access to MS care” Evaluating the benefits and feasibility of providing MS clinical care remotely.

Brant Oliver, PhD, MPH
MGH Institute of Health Professions
Boston, Massachusetts
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy Research Contracts
Strategic Area: Stop
Approx. Funding: $244,175
Term: 10/1/2015-3/31/2018

“Understanding the impact of nurse practitioners and physician assistants in multiple sclerosis care: A three part study of utilization, quality, and patient experience.” Researchers at Massachusetts General Hospital are exploring how nurse practitioners and physician assistants may be able to assist neurologist in providing access to care for individuals with MS.
Barbara Osborne, PhD  
University of Massachusetts Amherst
Amherst, Massachusetts  
Award: Research Grants
Approx. Funding: $462,000
Term: 10/1/2014-9/30/2018

“The Role of Notch Family Members in the Development of EAE” University of Massachusetts at Amherst researchers are investigating how specific proteins are important in immune attacks, results of which may suggest a new therapeutic target for treating MS.

Kevin Patel, MD  
Massachusetts General Hospital
Boston, Massachusetts  
Award: NMSS-ABF Clinician Scientist Award
Approx. Funding: $184,890
Term: 7/1/2015-6/30/2018

“Functional connectivity changes underlying cognitive decline in early multiple sclerosis - evidence of compensatory function or sequelae of structural compromise?” Researchers at Massachusetts General Hospital are using imaging to understand the relationship between cognitive problems in people with MS and differences in connections between various parts of the brain.

Funded in part by a gift from a generous donor

Nikos Patsopoulos, MD, PhD  
Brigham and Women's Hospital
Boston, Massachusetts  
Award: Career Transition Fellowships
Approx. Funding: $511,122
Term: 7/1/2014-3/31/2018

“Identification of the MS specific and the shared with other autoimmune diseases genetic component and their functional impact” What can we learn by comparing genetic risk factors between MS and other immune-mediated and autoimmune diseases?

Funded in part by an anonymous donor

Xianhua Piao, MD, PhD  
Boston Children's Hospital
Boston, Massachusetts  
Award: Research Grants
Approx. Funding: $660,000
Term: 10/1/2015-9/30/2018

“The role of GPR56 in CNS myelination and myelin repair” Investigators at Boston Children's Hospital are studying a protein involved in the growth of nerve-insulating myelin as a possible mechanism for stimulating myelin repair in MS.

Francisco Quintana, PhD  
Brigham and Women's Hospital
Boston, Massachusetts  
Award: Harry Weaver Neuroscience Scholarships
Approx. Funding: $766,186
Term: 7/1/2014-6/30/2019

“Role of astrocytes in multiple sclerosis and experimental autoimmune encephalomyelitis” What role do brain cells called astrocytes play in progressive MS?
Francisco Quintana, PhD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $624,082
Term: 10/1/2016-9/30/2019

“Therapeutic and environmental control of astrocyte function during autoimmune neuroinflammation” Researchers at Brigham & Women’s Hospital are exploring an immune mechanism that may contribute to MS progression and may open doors to wellness strategies aimed at stopping progression.

Francisco Quintana, PhD
Brigham and Women's Hospital
Boston, Massachusetts
Award: International Progressive MS Alliance - Collaborative Network Center
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $4,780,000
Term: 1/1/2017-12/23/2020

“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

Frank Schildberg, PhD
Harvard Medical School
Boston, Massachusetts
Award: Postdoctoral Fellowships
Category: Immunology
Strategic Area: Stop
Approx. Funding: $178,391
Term: 7/1/2015-6/30/2018

“Cell type-specific functions of PD-L1 in controlling EAE” Researchers at Harvard are exploring the mechanisms by which a molecule seems to control the initiation and resolution of EAE of MS-like disease.

Tarun Singhal, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Pilot Research Grants
Category: Diagnostic Methods
Strategic Area: Stop
Approx. Funding: $41,200
Term: 3/1/2017-2/28/2018


Stephanie Tankou, MD, PhD
Brigham and Women's Hospital
Boston, Massachusetts
Award: NMSS-ABF Clinician Scientist Award
Category: Immunology
Strategic Area: Stop
Approx. Funding: $191,042
Term: 7/1/2015-6/30/2018

“Investigation of the role of elevated archaea species in the microbiome of patients with MS.” Researchers at The Brigham and Women's Hospital are studying the relationship between a specific type of gut microbe and immune function and disease severity in people with MS. 
Funded in part by a gift from a generous donor
Chao Wang, PhD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Career Transition Fellowships
Category: Immunology
Strategic Area: Stop
Approx. Funding: $587,079
Term: 7/1/2017-6/30/2022
“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.

Howard Weiner, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $528,624
Term: 4/1/2016-3/31/2019
“Investigation of Pathogenic Gene Signature of Human TH17 cells in Multiple Sclerosis” Researchers at Harvard Medical School are looking at genetic differences in a specific type of immune cell (“Th17”) which can be both harmful and beneficial in people with MS, to provide a strategy for more specific therapies.

Howard Weiner, MD
Brigham and Women's Hospital
Boston, Massachusetts
Award: Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $1,375,000
Term: 10/1/2016-9/30/2021
“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.

MICHIGAN
Tiffany Braley, MD
University of Michigan
Ann Arbor, Michigan
Award: Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Restore
Approx. Funding: $827,967
Term: 4/1/2015-3/31/2019
“A randomized trial of positive airway pressure therapy to treat cognitive dysfunction in MS patients with obstructive sleep apnea” University of Michigan researchers will determine whether a commonly used treatment for sleep apnea could improve cognitive performance in people with MS who also have sleep apnea.

Nora Fritz, PT, PhD
Wayne State University
Detroit, Michigan
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $44,000
Term: 6/1/2017-5/31/2018
“Development and Efficacy of a Telephone-Delivered Physical Activity Intervention for Multiple Sclerosis Fatigue” Testing the effectiveness of telephone-delivered exercise to improve fatigue in people with relapsing-remitting MS.
Alexander Gow, PhD
Wayne State University
Detroit, Michigan
Award: Pilot Research Grants
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $44,000
Term: 6/1/2017-5/31/2018

“Characterizing the radial component of CNS myelin” Exploring a novel facet of the myelin that insulates nerve fibers, for clues to how it is targeted in the MS attack.

Alexander Gow, PhD
Wayne State University
Detroit, Michigan
Award: Research Grants
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $663,959
Term: 4/1/2015-3/31/2018

“Neurodegeneration associated with metabolic stress in oligodendrocytes” Wayne State University researchers in Detroit are determining whether processes beyond immune attacks are responsible for nervous system damage in an MS-like disease in mice, for novel approaches to stop MS.

Min-Hui Huang, PT, PhD
Regents of the University of Michigan
Flint, Michigan
Award: Pilot Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $43,643
Term: 9/1/2017-8/31/2018

“Effects of Inspiratory Muscle Training in Persons with Advanced Multiple Sclerosis” Testing a method of improving breathing and reducing the complications of breathing problems in people with advanced MS.

Robert Lisak, MD
Wayne State University
Detroit, Michigan
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $710,556
Term: 10/1/2014-3/31/2018

“B Cell Secretory Factors and Neuronal and Oligodendroglial Toxicity” Studying toxic substances made by immune cells that may cause nervous system damage in MS.

Harley Tse, PhD
Wayne State University
Detroit, Michigan
Award: Pilot Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $44,000
Term: 3/1/2017-2/28/2018

“Reprogramming of encephalitogenic T cells for adoptive cell-based therapy of EAE” Testing a method of generating powerful immune cells to stop the attack in MS models.
**MINNESOTA**

**Ben Clarkson, PhD**  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Postdoctoral Fellowships  
**“Role of ISGylation in MS Synaptopathy”** Researchers at the Mayo Clinic are investigating a process called “ISGylation” that may play a role in the cognitive problems experienced by many people with MS.

**mahboobeh Fereidan-Esfahani, MD**  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Postdoctoral Fellowships  
**“New Technologies to Characterize Therapeutic Human Antibodies for Demyelinating Disease”** Researchers at the Mayo Clinic are investigating characteristics of an antibody that may promote repair of some types of damage that occur in progressive MS.

**Jacob Hines, PhD**  
Winona State University  
Winona, Minnesota  
Award: Pilot Research Grants  
**“The role of axon caliber in the selective myelination of nerve axons”** Researchers at Winona State University are learning what properties of the nerve fiber enable successful formation of myelin sheaths.

**Wensheng Lin, MD, PhD**  
University of Minnesota  
Minneapolis, Minnesota  
Award: Research Grants  
**“Oligodendrocyte impact on neurodegeneration in the experimental autoimmune encephalomyelitis mouse model of multiple sclerosis”** Seeking Ways to protect myelin-making cells and nerve fibers from damage in MS.

**Claudia Lucchinetti, MD**  
Mayo Clinic College of Medicine-M  
Rochester, Minnesota  
Award: Collaborative Research Center Awards  
**“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.
**Isobel Scarisbrick, PhD**  
Mayo Clinic Rochester  
Rochester, Minnesota  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $607,111  
Term: 4/1/2015-3/31/2018  

“Targeting Protease Activated Receptor 1 to Promote Myelin Repair” Researchers at the Mayo Clinic are investigating the importance of a molecule called PAR1 in myelin protection and repair to determine if currently approved drugs that target PAR1 for treatment of other diseases could be used to treat people with MS.

**MISSOURI**

**Claudia Cantoni, PhD**  
Washington University School of Medicine-M  
Saint Louis, Missouri  
Award: Postdoctoral Fellowships  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $172,444  
Term: 7/1/2015-6/30/2018  

“Role of miR-223 in multiple sclerosis and its animal model” Researchers at Washington University in St. Louis are examining the role of a molecule that may play a role in regulating immune attacks in MS.

**Robyn Klein, MD, PhD**  
Washington University School of Medicine-M  
Saint Louis, Missouri  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $662,812  
Term: 4/1/2016-3/31/2019  

“Targeting S1PR2 to prevent Disease Progression in females with CNS autoimmunity” Investigators at Washington University School of Medicine are investigating a molecule that appears to be involved in sex differences and possibly disease progression, in a model of MS and in people with MS.

**Tsen-Hsuan (Abby) Lin, PhD**  
Washington University School of Medicine-M  
Saint Louis, Missouri  
Award: Postdoctoral Fellowships  
Category: Neuropathology  
Strategic Area: Stop  
Approx. Funding: $114,963  
Term: 7/1/2016-6/30/2018  

“Imaging optic nerve function and pathologies in MS” Researchers at Washington University School of Medicine are developing imaging methods to visualize damage in the eye and relate this damage to visual function in people with MS.

**Kelly Monk, PhD**  
Washington University School of Medicine-M  
Saint Louis, Missouri  
Award: Harry Weaver Neuroscience Scholarships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $521,023  
Term: 7/1/2016-6/30/2021  

“Molecular mechanisms that govern oligodendrocyte biology” Researchers at Washington University School of Medicine are investigating how certain genes control the formation of nerve-insulating myelin, for clues to developing myelin repair strategies.
Laura Piccio, MD, PhD
Washington University School of Medicine-M Saint Louis, Missouri Award: Research Grants

Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $777,853-PENDING
Term: 12:00:00 AM - 3/31/2020

“Randomized controlled trial of intermittent fasting in multiple sclerosis” Researchers at Washington University in St. Louis are conducting a clinical trial comparing intermittent fasting with a normal western diet in people with MS.

Afsaneh Shirani, MD
Washington University School of Medicine-M Saint Louis, Missouri Award: NMSS-ABF Clinician Scientist Development

Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $198,894
Term: 7/1/2017-6/30/2020

“Predicting clinical progression in multiple sclerosis patients using a novel imaging biomarker targeted at differentiating and quantifying the underlying pathologies” Researchers at Washington University School of Medicine are developing a new type of brain imaging to allow detection and prediction of different types of damage that occur in people with MS.

Sheng-Kwei Song, PhD
Washington University School of Medicine-M Saint Louis, Missouri Award: Research Grants

Category: Diagnostic Methods
Strategic Area: Stop
Approx. Funding: $648,976
Term: 10/1/2017-9/30/2020

“How Does Optic Neuritis Impact Nerve Function and Its Assessment?” Researchers at The Hope Center at Washington University in St. Louis are developing a method to specifically image damage to the optic nerve to better understand MS disease processes.

NEVADA
Stephen Francis, MS, PhD
University of Nevada, Reno Reno, Nevada Award: Pilot Research Grants

Category: Epidemiology
Strategic Area: End
Approx. Funding: $43,628
Term: 9/1/2017-8/31/2018

“A polymorphic SVA element at the HLA-DRB1 locus as a driver of genetic risk in MS” Studying a specific genetic feature that may confer susceptibility to MS.

NEW HAMPSHIRE
Sara Colpitts, PhD
Trustees of Dartmouth College Hanover, New Hampshire Award: Pilot Research Grants

Category: Immunology
Strategic Area: Stop
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018

“The role of interleukin-15 in driving protective regulatory B cells during CNS inflammation” Investigating how antibiotic treatment may induce a regulatory immune response in MS-like disease in mice.
Heather Wishart, PhD
Trustees of Dartmouth College
Hanover, New Hampshire
Award: Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Restore
Approx. Funding: $411,801
Term: 10/1/2013-3/31/2018

“Differential patterns of brain activation during pain processing in patients with MS and healthy controls” Understanding how the brains of people with MS process pain to work toward better treatments

Heather Wishart, PhD
Trustees of Dartmouth College
Hanover, New Hampshire
Award: Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Stop
Approx. Funding: $366,010
Term: 4/1/2017-3/31/2020

“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
Nancy Chiaravalloti, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $748,576
Term: 4/1/2014-3/31/2018

“Speed of Processing Training to Improve Cognition in MS: A Randomized Clinical Trial” Can a training program to improve the speed of processing information help people with MS?

John DeLuca, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Collaborative Research Center Awards
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $821,585
Term: 4/1/2014-3/31/2019

“MS Collaborative Network of New Jersey” What is the connection between cognitive and motor functions in people with MS?

John DeLuca, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Mentor-Based Postdoctoral Fellowships
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $404,698
Term: 7/1/2017-6/30/2022

“MS Fellowship in Neuropsychological Rehabilitation” Rehabilitation researchers at Kessler Foundation have received funding to train promising rehabilitation professionals to conduct MS rehabilitation research.
Ekaterina Dobryakova, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $407,888
Term: 10/1/2015-9/30/2018

“The Effect of Feedback Presentation on the Fronto-Striatal Network Activity and Fatigue in Individuals with MS.” Researchers at the Kessler Foundation are investigating whether a rehabilitation technique known as “feedback presentation” can relieve fatigue experienced by people with MS.

Cheryl Dreyfus, PhD
Rutgers, The State University of New Jersey
Piscataway, New Jersey
Award: Research Grants
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $607,161
Term: 4/1/2015-3/31/2018

“The role of glial cell-derived factors in a cuprizone model of MS” Rutgers University researchers are investigating new molecules that may be capable of protecting cells that make nerve-insulating myelin, with the goal of preventing degeneration of myelin and enhancing its repair in people with MS.

Helen Genova, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Pilot Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Restore
Approx. Funding: $43,986
Term: 6/1/2017-5/31/2018

“Examining Neural Changes Following an Emotional Processing Intervention in Individuals with Multiple Sclerosis” Examining the effects of an intervention aimed at improving emotional processing abilities in individuals with MS.

Helen Genova, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $479,784
Term: 4/1/2016-3/31/2019

“Remediation of Emotional Processing Deficits in MS: A Randomized Clinical Trial” Researchers at the Kessler Foundation are testing a strategy aimed at improving emotional processing abilities in individuals with MS.

Lauren Strober, PhD
Kessler Foundation Research Center
West Orange, New Jersey
Award: Pilot Research Grants
Category: Psychosocial Aspects of MS
Strategic Area: Restore
Approx. Funding: $44,000
Term: 9/1/2016-8/31/2018

“The SEMS Project: Staying Employed with Multiple Sclerosis” Testing a comprehensive intervention that may help people with MS to stay employed.
Lauren Strober, PhD  
Kessler Foundation Research Center  
West Orange, New Jersey  
Award: Health Care Delivery and Policy Research  
Contract  
“Standardization and Normative Data of the Symbol Digit Modalities Test-Oral Version”  
Approx. Funding: $513,495  
Term: 10/1/2014-9/30/2018  
Improving a test that measures cognitive function.

Teresa Wood, PhD  
Rutgers, The State University of New Jersey  
Piscataway, New Jersey  
Award: Research Grants  
“mTOR Signaling Targets and Pathway Intersections in Oligodendrocyte Differentiation and Myelination”  
Researchers at Rutgers, the State University of New Jersey, are investigating the role of a molecule called mTOR and associated molecules in enhancing myelin repair.

Bing Yao, PhD  
Kessler Foundation Research Center  
West Orange, New Jersey  
Award: Research Grants  
“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 MEXICO  
Oscar Bizzozero, PhD  
University of New Mexico  
Albuquerque, New Mexico  
Award: Pilot Research Grants  
“Identification of miRNAs that downregulate Nrf2 signaling in EAE”  
Investigating how failure to launch an antioxidant response may contribute to MS damage, and thus may be a target for preventing damage in MS.

Adan Aguirre, PhD  
State University of New York at Stony Brook  
Stony Brook, New York  
Award: Research Grants  
“Role of TGF-beta in oligodendrogenesis and myelin repair”  
Researchers at the State University of New York, Stony Brook, are exploring the role of a molecule in stimulating myelin-making cells to repair nerve-insulating myelin in MS.
Oluwasheyi Ayeni, MD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Sylvia Lawry Physician Fellowships  
Approx. Funding: $130,000  
Term: 7/1/2016-6/30/2018  

“Sylvia Lawry Physician Fellowship” A promising doctor at Icahn School of Medicine at Mount Sinai in New York will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Matthew Bellizzi, MD, PhD  
University of Rochester Medical Center  
Rochester, New York  
Award: Research Grants  
Approx. Funding: $210,049  
Term: 4/1/2017-3/31/2018  

“Modulating microglial activation for gray matter neuroprotection in multiple sclerosis” Researchers at the University of Rochester are investigating drugs that may protect nerve connections in the brain from the damage that occurs in MS.

Ralph Benedict, PhD  
The State University of New York at Buffalo  
Buffalo, New York  
Award: Research Grants  
Approx. Funding: $1063,919  
Term: 4/1/2015-5/31/2020  

“The Role of Cognitive Dysfunction in Defining MS Relapses and Freedom from Disease Activity” Researchers at the State University of New York at Buffalo are investigating the importance of cognitive problems in MS relapses to more precisely define disease activity during relapses and the absence of disease activity during periods of remission.

Patrizia Casaccia, MD, PhD  
Research Foundation of CUNY-ASRC  
New York, New York  
Award: Research Grants  
Approx. Funding: $180,729  
Term: 10/1/2017-3/31/2018  

“Understanding the role of gene/environment interaction in oligodendrocytes” Researchers are exploring how environmental factors can be harmful or protective to the cells that maintain myelin and are damaged in the course of MS.

Holly Colognato, PhD  
State University of New York at Stony Brook  
Stony Brook, New York  
Award: Research Grants  
Approx. Funding: $582,278  
Term: 4/1/2017-3/31/2020  

“Signaling pathways that regulate myelin repair” Researchers at State University of New York at Stony Brook are exploring a strategy for stimulating signals that promote myelin repair in MS.
Philip De Jager, MD, PhD
Columbia University
New York, New York
Award: Research Grants
Category: Human Genetics
Strategic Area: Stop
Approx. Funding: $70,311
Term: 10/1/2013-3/31/2018

“Integrating risk factors and biomarkers for prediction in presymptomatic MS” Identifying individuals without symptoms who are at high risk for MS.

M. Laura Feltri, MD
The State University of New York at Buffalo
Buffalo, New York
Award: Research Grants
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $596,537
Term: 10/1/2014-9/30/2018

“Characterization of a novel inhibitor of myelination: MAPK12/P38MAPKgamma.” Does a natural inhibitor of nerve-insulating myelin have potential as a target for myelin repair in MS?

Ilena George, MD
Icahn School of Medicine at Mount Sinai
New York, New York
Award: Sylvia Lawry Physician Fellowships
Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $130,000
Term: 7/1/2017-6/30/2019

“How Does the Astrocyte Barrier Protein, JAM-A, Regulate Immune Cell Entry and Activity in CNS Inflammatory Lesions?” Researchers at Icahn School of Medicine are exploring a novel strategy that pinpoints the entry of immune cells into the brain, for clues to stopping damage caused by the immune attack in MS.

Matilde Inglese, MD
Icahn School of Medicine at Mount Sinai
New York, New York
Award: Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Stop
Approx. Funding: $664,214
Term: 4/1/2014-3/31/2018

“Multimodal longitudinal imaging in progressive MS” Using advanced imaging to track and understand nervous system changes that lead to progression in people with primary-progressive MS.
Gareth John, VetMB, PhD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Research Grants  
Category: Biology of Glia  
Strategic Area: Stop  
Approx. Funding: $103,125  
Term: 10/1/2015-9/30/2018  
“Reactive astrocytes control leukocyte and humoral trafficking into the CNS”  
Mount Sinai researchers are investigating cells and proteins that control entry of harmful immune cells and molecules into the brain for clues to stopping this influx in MS.

Christoph Juchem, PhD  
Columbia University  
New York, New York  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $390,031  
Term: 9/1/2016-3/31/2018  
“In Vivo Metabolomics of Oxidative Stress with 7 Tesla Magnetic Resonance Spectroscopy”  
Researchers at Yale are using two imaging techniques to determine the distribution and importance of the antioxidant glutathione in the brains of people with MS.

Herbert Karpatkin, DSc  
Hunter College  
New York, New York  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $43,991  
Term: 9/1/2016-8/31/2018  
“Effect of acupuncture on mobility, sensorimotor impairments, and quality of life in persons with Multiple Sclerosis”  
A clinical trial to determine whether acupuncture can improve symptoms in 30 people with MS.

Ilana Katz Sand, MD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Research Grants  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $161,975  
Term: 10/1/2016-9/30/2018  
“Pilot Study of a Dietary Intervention for Multiple Sclerosis”  
Researchers at the Icahn School of Medicine at Mount Sinai in New York are exploring the potential of a dietary approach to improving health and wellness in people with MS.

Joo-won Kim, PhD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Postdoctoral Fellowships  
Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $184,654  
Term: 7/1/2017-6/30/2020  
“Assessing Microstructural Integrity of Cervical Spinal Cord Gray and White Matter with Ultra-High Field Diffusion MRI for Progressive MS”  
Researchers at the Icahn School of Medicine at Mount Sinai are using advanced imaging to evaluate damage to the spinal cord in people with progressive MS to allow better ways to predict and treat progression.  
Kathleen C. Moore Foundation Postdoctoral Fellowship
Sonya Kim, CRC, PhD  
New York University School of Medicine  
Category: Psychosocial Aspects of MS  
New York, New York  
Strategic Area: Restore  
Award: Pilot Research Grants  
Approx. Funding: $44,000  
Term: 6/1/2017-5/31/2019

“Psychometric validation of the posttraumatic growth scale in partners of persons with multiple sclerosis”  
Developing an instrument that measures the partner’s responses to the impact of MS.

Lauren Krupp, MD  
New York University Langone Medical Center  
Category: Psychosocial Aspects of MS  
New York, New York  
Strategic Area: Restore  
Award: Research Grants  
Approx. Funding: $1,046,676  
Term: 4/1/2016-3/31/2020

“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  
Category: Diagnostic Methods  
New York, New York  
Strategic Area: Restore  
Award: Research Grants  
Approx. Funding: $558,130  
Term: 8/1/2014-3/31/2019

“Resting State Functional Connectivity as a Predictor of Memory Decline in Multiple Sclerosis”  
Looking for a way to predict who will experience memory decline due to MS so that treatments to slow or prevent it can be started early.

Victoria Leavitt, PhD  
Columbia University  
Category: Rehabilitation  
New York, New York  
Strategic Area: Restore  
Award: Mentor-Based Postdoctoral Fellowships  
Approx. Funding: $389,211  
Term: 7/1/2017-6/30/2022

“Cognitive Rehabilitation in MS: From Neuroscience to Clinical Practice”  
An award supporting the training of promising young candidates in cognitive rehabilitation for people with multiple sclerosis.

Jennifer Linden, PhD  
Weill Cornell Medical College  
Category: Neuropathology  
New York, New York  
Strategic Area: Stop  
Award: Career Transition Fellowships  
Approx. Funding: $583,486  
Term: 7/1/2017-6/30/2022

“Using Endothelial Microparticles to Study Real-Time Blood Brain Barrier Permeability in Multiple Sclerosis Patients”  
Investigators at Weill Cornell Medical College in New York are studying a molecular “signature” found in blood that may indicate the status of the blood-brain barrier, which normally protects the brain by keeping harmful cells and molecules out of the bra
Mia Minen, MD, MPH
New York University Langone Medical Center
New York, New York
Award: Pilot Research Grants
Category: Health Care Delivery/ Policy
Strategic Area: Restore
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018

“Multiple Sclerosis and Migraine: Can smartphone based progressive muscle relaxation therapy help MS patients' headaches, sleep, mood/anxiety and stress levels?” Testing a method of reducing pain from migraine and MS.

David Jay Mock, MD
University of Rochester Medical Center
Rochester, New York
Award: Pilot Research Grants
Category: CNS Repair
Strategic Area: Stop
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018

“Establishment of a new animal model that mimics latent human Herpes Virus 6 infection in the brain” Determining whether a virus plays a role in preventing myelin repair in an MS model.

Sarah Moyon, PhD
Research Foundation of CUNY-ASRC
New York, New York
Award: Postdoctoral Fellowships
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $125,564
Term: 7/1/2016-6/30/2019

“Investigating the role of DNA methylation and hydroxymethylation in adult oligodendrocyte progenitor cells during remyelination” Researchers at the Icahn School of Medicine at Mount Sinai in New York are investigating age-related changes to genes that may affect the maturation of cells needed to repair myelin, which is damaged in MS.

Thanh Nguyen, PhD
Weill Cornell Medical College
New York, New York
Award: Research Grants
Category: Measuring MS Disease Activity
Strategic Area: Restore
Approx. Funding: $897,375
Term: 10/1/2016-9/30/2020

“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.

Yungki Park, PhD
The State University of New York at Buffalo
Buffalo, New York
Award: Pilot Research Grants
Category: Biology of Glia
Strategic Area: Stop
Approx. Funding: $44,000
Term: 11/1/2017-10/31/2018

“Elucidating the pathogenetic mechanisms of multiple sclerosis” Researchers at The State University of New York at Buffalo are seeking to understand how genetic variations may contribute to MS risk, using cutting edge technology.
Julia Patzig, PhD  
Icahn School of Medicine at Mount Sinai  
New York, New York  
Award: Postdoctoral Fellowships  
Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $182,327  
Term: 7/1/2016-6/30/2019  

“The impact of nuclear structure on oligodendrocyte development and pathology.” Researchers at the Icahn School of Medicine at Mount Sinai in New York are asking whether a molecule called LmnA, which is present in the nucleus of many cells including those that make myelin, is involved in normal myelin synthesis and in the loss of myelin.

James Salzer, MD, PhD  
New York University School of Medicine  
New York, New York  
Award: Fast Forward  
Category: Preclinical Drug Development  
Strategic Area: Restore  
Approx. Funding: $598,950  
Term: 9/23/2015-12/21/2018  

“Enhancing Remyelination by Targeting Gli1” Developing a potential therapy that promotes myelin repair by stimulating the body's repair mechanisms. 
*Funded in collaboration with the MS Society of Canada*

Bridget Shafit-Zagardo, PhD  
Albert Einstein College of Medicine  
Bronx, New York  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $683,959  
Term: 4/1/2015-3/31/2018  

“Functional Consequences of Altered AKT3 Signaling” Researchers at the Albert Einstein College of Medicine are examining the role of a molecule called AKT3, which may be capable of protecting against MS immune attacks.

Janet Shucard, PhD  
The State University of New York at Buffalo  
Buffalo, New York  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $608,859  
Term: 4/1/2017-3/31/2020  

“The Effects of Working Memory Training on Brain Function, Structure, and Cognition in MS” Investigators at The State University of New York at Buffalo, Jacobs School of Medicine and Biomedical Sciences, are testing two training programs for improving cognitive function in people with MS.

Fraser Sim, PhD  
The State University of New York at Buffalo  
Buffalo, New York  
Award: Pilot Research Grants  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $4,000-PENDING  
Term: 11/1/2017-10/31/2018  

“Modeling human cell-based remyelination in large chronic demyelinating lesions” Investigators at The State University of New York at Buffalo are establishing a new model of demyelination to determine whether human cell therapy has the capacity to restore lost myelin.
Fraser Sim, PhD
The State University of New York at Buffalo
Category: CNS Repair
Buffalo, New York
Strategic Area: Restore
Award: Research Grants
Approx. Funding: $579,899
Term: 10/1/2017-9/30/2020
“Targeting extracellular sulfatases to accelerate oligodendrocyte progenitor-based myelin repair and regeneration” Researchers at The State University of New York at Buffalo are attempting a new strategy to improve the ability of cells to repair of nerve-insulating myelin.

Andrew Smith, MD
University of Rochester
Category: Human Therapy Trials/Management of MS
Rochester, New York
Strategic Area: Stop
Award: Sylvia Lawry Physician Fellowships
Approx. Funding: $195,000
Term: 7/1/2015-6/30/2018
“Experimental Therapeutics Fellowship in Multiple Sclerosis” A promising doctor at the University of Rochester will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

James Sumowski, PhD
Icahn School of Medicine at Mount Sinai
Category: Rehabilitation
New York, New York
Strategic Area: Restore
Award: Pilot Research Grants
Approx. Funding: $43,999
Term: 11/1/2016-4/30/2018
“Pilot Randomized Controlled Trial of Atomoxetine to Treat Memory Impairment in MS Patients” Testing a therapy for its ability to address memory problems in people with MS.

TG Therapeutics,
TG Therapeutics
Category: Preclinical Drug Development
New York, New York
Strategic Area: Stop
Award: Fast Forward
Approx. Funding: $254,452
Term: 9/1/2017-8/31/2018
“Pre-clinical testing of existing drug candidates to determine if it can protect the nervous system from damage and/or can repair damage” Pre-clinical testing of existing drug candidates to determine if it can protect the nervous system from damage and/or can repair damage, especially for the treatment of progressive MS.

Caila Vaughn, PhD, MPH
The State University of New York at Buffalo
Category: Human Therapy Trials/Management of MS
Buffalo, New York
Strategic Area: Restore
Award: Pilot Research Grants
Approx. Funding: $43,725-PENDING
Term: 11/1/2017-10/31/2018
“The Usefulness of the Talkitt Speech Recognition Technology in Improving Quality of Life for Individuals with Multiple Sclerosis and Dysarthria” Researchers at the State University of New York at Buffalo are conducting a trial to determine whether an application for smart devices improves communication-related quality of life in people with MS and speech disorders.
Junqian Xu, PhD
Icahn School of Medicine at Mount Sinai
New York, New York
Award: Pilot Research Grants
Category: Neurophysiology
Strategic Area: Stop
Approx. Funding: $43,998
Term: 11/1/2017-10/31/2018

“Towards validating magnetic resonance spectroscopy measured glutamate as an in vivo spinal cord neuroplasticity biomarker using dendritic morphometry” Researchers at Icahn School of Medicine are optimizing tools to prepare for the investigation of the effects of rehabilitation in MS.

NORTH CAROLINA

Maria Ciofani, PhD
Duke University Medical Center
Charlotte, North Carolina
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $629,860
Term: 4/1/2015-3/31/2018

“Network approach to dissecting genetic mediators of Multiple Sclerosis” Duke University Medical Center researchers are using new technologies to identify genes that are expressed in certain types of cells and that may contribute to causing MS.

Jason Franz, PhD
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Award: Pilot Research Grants
Category: Diagnostic Methods
Strategic Area: Restore
Approx. Funding: $43,604
Term: 9/1/2017-8/31/2018

“Effect of optical flow perturbations on static and dynamic balance control in people with multiple sclerosis” Studying how virtual reality might be used to accurately identify balance problems in people with MS.

Heather Kane, PhD
RTI International
Raleigh, North Carolina
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Stop
Approx. Funding: $214,840
Term: 10/1/2015-9/30/2018

“To what extent are nurse practitioners and physician assistants utilized in MS and what impact do they have on costs, clinical outcomes, and patient satisfaction?” Researchers at RTI International and University of Arizona are exploring how nurse practitioners and physician assistants may assist neurologists in providing access to care for individuals with MS.

Nancie MacIver, MD, PhD
Duke University Medical Center
Charlotte, North Carolina
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $473,018
Term: 4/1/2015-3/31/2018

“Identifying molecular mechanisms by which leptin and nutrition target T cell immunity in multiple sclerosis” Duke University Medical Center researchers are exploring whether a nutrition-regulated hormone called leptin may contribute to immune-system activity in MS.

Funded in part by a gift from a generous donor
Glenn Matsushima, PhD
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Award: Research Grants
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $500,009
Term: 4/1/2017-3/31/2020

“Function of microglia during remyelination” Researchers at University of North Carolina at Chapel Hill are exploring a novel strategy for promoting the natural capacity of the brain to repair the damage that occurs in MS.

Mari Shinohara, PhD
Duke University Medical Center
Charlotte, North Carolina
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $660,554
Term: 10/1/2014-9/30/2018

“Study on innate immune inflammation that enhances EAE” Understanding differences in response to MS treatment by looking at MS models.

Jenny Ting, PhD
University of North Carolina at Chapel Hill
Chapel Hill, North Carolina
Award: Collaborative Research Center Awards
Category: Preclinical Drug Development
Strategic Area: Stop
Approx. Funding: $825,000
Term: 4/1/2014-3/31/2019

“Preclinical Therapeutic Development for Multiple Sclerosis” Testing therapies to stop the immune attack and protect the nervous system.

OHIO
Laura Baldassari, MD
Cleveland Clinic Foundation
Cleveland, Ohio
Award: Sylvia Lawry Physician Fellowships
Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $130,000
Term: 7/1/2017-6/30/2019

“Training in multiple sclerosis diagnosis, management, and clinical trials” A promising doctor at Cleveland Clinic Foundation will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Farren Briggs, PhD
Case Western Reserve University
Cleveland, Ohio
Award: Pilot Research Grants
Category: Epidemiology
Strategic Area: End
Approx. Funding: $44,000
Term: 9/1/2017-8/31/2018

“Quantifying the genetic burden of multiple sclerosis age of onset.” Exploring how genetic risk factors may be related to age at onset of MS.
Ranjan Dutta, PhD
Cleveland Clinic Foundation
Cleveland, Ohio
Award: Research Grants
Category: Neuropathology
Strategic Area: Stop
Approx. Funding: $464,151
Term: 4/1/2015-3/31/2018

“Pathogenesis of cortical demyelination underlying progressive disability in multiple sclerosis”
Researchers at the Cleveland Clinic are examining the brains of people with MS to understand differences between the damage caused by primary-progressive and secondary-progressive MS in search of ways to stop progression.

Robert Fox, MD
Cleveland Clinic Foundation
Cleveland, Ohio
Award: Strategic Initiatives
Category: Human Therapy Trials/Management of MS
Strategic Area: Stop
Approx. Funding: $592,151
Term: 10/1/2013-9/30/2018

“Ibudilast Clinical Trial” Clinical trial to test whether ibudilast, a re-purposed therapy, can protect the nervous system and slow or stop progressive MS
Funded by a gift from the National MS Society Greater Delaware Valley Chapter

Robert Fox, MD
Cleveland Clinic Foundation
Cleveland, Ohio
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Stop
Approx. Funding: $416,686
Term: 10/1/2015-12:00:00 AM

“A Study of Benefit and Risk in People with MS” Researchers at the Cleveland Clinic are probing the perspectives of people with MS in terms of perceived benefits and risks of MS therapies to better inform the development and approval of future therapies.

Amy Lovett-Racke, PhD
Ohio State University
Columbus, Ohio
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $584,726
Term: 10/1/2014-3/31/2018

“Role of miRNA in defective Tregs in Multiple Sclerosis” Exploring ways to alter the immune responses to stop MS in its tracks.

Amy Lovett-Racke, PhD
Ohio State University
Columbus, Ohio
Award: Research Grants
Category: Neurophysiology
Strategic Area: Stop
Approx. Funding: $273,122
Term: 4/1/2016-3/31/2019

“Neuroprotective Role of Vitamin D During Childhood” Researchers at The Ohio State University are seeking to determine if low vitamin D in early life increases the risk of developing MS.
Mark Lowe, PhD  
Cleveland Clinic Foundation  
Cleveland, Ohio  
Award: Research Grants  

Category: Measuring MS Disease Activity  
Strategic Area: Stop  
Approx. Funding: $658,575  
Term: 10/1/2013-3/31/2018  

“MRI-DTI and Functional Connectivity as Measures of Disease Progression in MS”  
Using powerful brain MRI to develop a better way to track MS disease progression.

Qing Lu, PhD  
Children's Hospital Medical Center - Cincinnati  
Cincinnati, Ohio  
Award: Research Grants  

Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $750,051  
Term: 4/1/2015-3/31/2018  

“Histone deacetylase control of CNS myelination and remyelination”  
Cincinnati Children's Hospital Medical Center researchers are focusing on how an enzyme controls myelin growth and repair, with a future possibility of stimulating this enzyme to repair myelin in people with MS.

Qing Lu, PhD  
Children's Hospital Medical Center - Cincinnati  
Cincinnati, Ohio  
Award: Research Grants  

Category: Biology of Glia  
Strategic Area: Restore  
Approx. Funding: $698,640  
Term: 4/1/2016-3/31/2019  

“Long non-coding RNA control of CNS myelination and remyelination”  
Researchers at the Cincinnati Children's Hospital Medical Center are investigating the possible role of a type of molecule called long noncoding RNA that may regulate repair of myelin, which is destroyed in MS.

Kedar Mahajan, MD  
Cleveland Clinic Foundation  
Cleveland, Ohio  
Award: NMSS-ABF Clinician Scientist Development  

Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $194,394  
Term: 7/1/2016-6/30/2019  

“Magnetic resonance fingerprinting and pathology correlations in multiple sclerosis”  
Cleveland Clinic investigators are using novel imaging and tissue studies to understand how MS impacts an area deep in the brain, called the thalamus, and how its injury contributes to disability.

Marisa McGinley, DO  
Cleveland Clinic Foundation  
Cleveland, Ohio  
Award: Sylvia Lawry Physician Fellowships  

Category: Human Therapy Trials/Management of MS  
Strategic Area: Stop  
Approx. Funding: $195,000  
Term: 7/1/2016-6/30/2019  

“Training in multiple sclerosis diagnosis, management, and clinical trials”  
A promising doctor at Cleveland Clinic will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.
Deborah Miller, PhD  
Cleveland Clinic Foundation  
Cleveland, Ohio  
Award: Health Care Delivery and Policy Research  
Contracts  
Category: Health Care Delivery/ Policy  
Strategic Area: Stop  
Approx. Funding: $545,144  
Term: 10/1/2015-9/30/2018

“Assessing Access, Change, Concerns, and Consequences of People with MS Regarding Four Types of Personal Insurances” Researchers at Cleveland Clinic are evaluating the availability and concerns around available insurance coverage for individuals with MS and their families.

Booki Min, DVM, PhD  
Cleveland Clinic Foundation  
Cleveland, Ohio  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $458,039  
Term: 10/1/2015-9/30/2018

“IL-27-conditioned Foxp3+ regulatory T cells, a novel Treg therapy to treat autoimmune inflammation in the CNS” Researchers at the Cleveland Clinic are exploring a novel way of reducing the immune attack on the brain and spinal cord that occurs in MS.

Ruchika Prakash, PhD  
Ohio State University  
Columbus, Ohio  
Award: Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $631,261  
Term: 10/1/2016-9/30/2019

“A physical activity-based tracking intervention to enhance cognitive and neural plasticity” Researchers from The Ohio State University are testing whether increasing physical activity through the use of simple accelerometers can improve cognitive functioning in MS.

Paul Tesar, PhD  
Case Western Reserve University  
Cleveland, Ohio  
Award: Research Grants  
Category: Human Genetics  
Strategic Area: Restore  
Approx. Funding: $654,443  
Term: 10/1/2017-9/30/2020

“The impact of chemical and genetic dysregulation of transcriptional pausing on oligodendrocyte generation and myelination in MS” Investigators at Case Western Reserve University and the Whitehead Institute are investigating underlying factors that hinder stem cells in the brain from replacing myelin in people with MS.

Yanning Wang, PhD  
Case Western Reserve University  
Cleveland, Ohio  
Award: Research Grants  
Category: Measuring MS Disease Activity  
Strategic Area: Restore  
Approx. Funding: $641,605  
Term: 4/1/2014-3/31/2018

“Myelin Imaging in Multiple Sclerosis” Developing a technique to measure the success of treatments to restore myelin.
Chunying WU, PhD  
Case Western Reserve University  
Cleveland, Ohio  
Award: Pilot Research Grants  
Category: Diagnostic Methods  
Strategic Area: Stop  
Approx. Funding: $44,000  
Term: 9/1/2017-8/31/2018  
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“A Dual PET Imaging Technique for In Vivo Characterization of Myelination in Multiple Sclerosis”  
Developing a novel imaging method for identifying changes to myelin in models of MS.

OKLAHOMA  
Robert Axtell, PhD  
Oklahoma Medical Research Foundation  
Oklahoma City, Oklahoma  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $422,400  
Term: 10/1/2016-9/30/2018  
“Role of B-cells in TH17 induced Neuro-inflammation”  
Researchers from Oklahoma Medical Research Foundation are investigating an immune modulating treatment for possible clues to stopping MS progression.

Michael Basso, PhD  
University of Tulsa  
Tulsa, Oklahoma  
Award: Pilot Research Grants  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $39,873  
Term: 2/1/2012-9/30/2018  
“A manualized cognitive rehabilitation program for Multiple Sclerosis”  
Developing a standardized program to improve memory, and testing its effects on memory function and ability to manage daily responsibilities in a small number of people with MS.

OREGON  
Dennis Bourdette, MD  
Oregon Health & Science University  
Portland, Oregon  
Award: Research Grants  
Category: Immunology  
Strategic Area: Restore  
Approx. Funding: $598,082  
Term: 4/1/2017-3/31/2020  
“Promoting remyelination in animal models of multiple sclerosis with a selective thyromimetic prodrug”  
Researchers at Oregon Health & Science University are exploring a novel strategy for repairing myelin and restoring function in laboratory models of MS.

Dennis Bourdette, MD  
Oregon Health & Science University  
Portland, Oregon  
Award: Collaborative Research Center Awards  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $825,000  
Term: 4/1/2015-3/31/2020  
“Developing patient-centered and evidence-based wellness programs for people with MS”  
Researchers at Oregon Health & Science University are collaborating to develop patient-centered and evidenced-based wellness programs to improve the daily life of people with MS.
**Ben Emery, PhD**
Oregon Health & Science University  
Portland, Oregon  
Award: Research Grants  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $502,237  
Term: 4/1/2015-3/31/2018

“**A transcriptional approach to myelin repair**” Testing a strategy for increasing myelin repair in MS by manipulating a major gene in myelin formation.

**Meredith Hartley, PhD**
Oregon Health & Science University  
Portland, Oregon  
Award: Postdoctoral Fellowships  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $178,391  
Term: 7/1/2015-6/30/2018

“**A thyroid hormone-based strategy for promoting remyelination**” Researchers at Oregon Health & Science University are testing thyroid hormone-like drugs to see if they will improve myelin repair and to determine their potential for development as a treatment for MS.  
*Funded in part by the Dave Tomlinson Research Fund*

**Daniel Hartung, MPH, PharmD**
Oregon State University  
Portland, Oregon  
Award: Health Care Delivery and Policy Research  
Category: Health Care Delivery/Policy  
Strategic Area: Stop  
Approx. Funding: $411,151  
Term: 10/1/2016-9/30/2018

“**Costs, Access, and Value of Multiple Sclerosis Disease-Modifying Therapies**” Researchers at Oregon State University are investigating reasons for the escalating costs of MS treatments.

**Fay Horak, PT, PhD**
Oregon Health & Science University  
Portland, Oregon  
Award: Mentor-Based Postdoctoral Fellowships  
Category: Rehabilitation  
Strategic Area: Restore  
Approx. Funding: $432,457  
Term: 7/1/2014-6/30/2019

“**Rehabilitation Research Training in Postural Control of Multiple Sclerosis**” Mentor-Based Postdoctoral Fellowship in MS Rehabilitation Research to enhance research into ways to use rehabilitation to improve balance and gait in people with MS.

**Larry Sherman, PhD**
Oregon Health & Science University  
Portland, Oregon  
Award: Research Grants  
Category: Preclinical Drug Development  
Strategic Area: Stop  
Approx. Funding: $575,556  
Term: 10/1/2017-9/30/2020

“**WE-thrombin for the treatment of inflammatory demyelination**” Researchers at Oregon Health & Science University are developing a novel agent that fights inflammation, which may protect the nervous system from damage in MS.
Elizabeth Silbermann, MD
Oregon Health & Science University Portland, Oregon Award: Sylvia Lawry Physician Fellowships
*Category:* Rehabilitation
*Strategic Area:* Stop
*Approx. Funding:* $195,000
*Term:* 7/1/2017-6/30/2020

“Sylvia Lawry Clinical Trials Physician Fellowship” A promising doctor at Oregon Health & Science University will develop the skills involved in the design, implementation, and analysis of clinical trials in MS.

Rebecca Spain, MD, MSPH
Oregon Health & Science University Portland, Oregon Award: Strategic Initiatives
*Category:* Human Therapy Trials/Management of MS
*Strategic Area:* Stop
*Approx. Funding:* $1,180,578
*Term:* 10/1/2017-9/30/2021

“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.

Ian Tagge, PhD
Oregon Health & Science University Portland, Oregon Award: Postdoctoral Fellowships
*Category:* Measuring MS Disease Activity
*Strategic Area:* Stop
*Approx. Funding:* $113,047
*Term:* 7/1/2017-6/30/2019

“Phenotyping leptomeningeal pathology in MS using DCE MRI” Researchers at Oregon Health and Science University are using advanced imaging methods to visualize MS activity in the “leptomeninges,” which covers the outer surface of the brain.

PENNSYLVANIA

Youhai Chen, MD, PhD
University of Pennsylvania Philadelphia, Pennsylvania Award: Research Grants
*Category:* Immunology
*Strategic Area:* Stop
*Approx. Funding:* $664,366
*Term:* 9/30/2016-9/30/2018

“Multiple Sclerosis and the Transcription Factor c-Rel” Researchers from the University of Pennsylvania are testing whether compounds that block a key molecule in the MS immune attack are effective in blocking disease activity in cells obtained from people with MS.

Judith Grinspan, PhD
Children's Hospital of Philadelphia Philadelphia, Pennsylvania Award: Research Grants
*Category:* Biology of Glia
*Strategic Area:* Restore
*Approx. Funding:* $583,760
*Term:* 4/1/2016-3/31/2019

“A key role for sterol regulatory element binding proteins in myelination” Researchers at Children’s Hospital of Philadelphia are investigating the role of a specific protein in myelin regeneration for clues to restoring function in people with MS.
**Michael Halpern, MD, PhD, MPH**

Temple University  
Philadelphia, Pennsylvania  
Award: Health Care Delivery and Policy Research  
Contracts  
Category: Health Care Delivery/ Policy  
Strategic Area: Restore  
Approx. Funding: $359,411  
Term: 10/1/2017-9/30/2019  

“What are the barriers preventing access to rehabilitation services, particularly maintenance services among people with MS and what are some of the potential solutions to these barriers?” Researchers at Temple University in Philadelphia are examining how to improve access to rehabilitation services for people with MS.

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**Michael Halpern, MD, PhD, MPH**

Temple University  
Philadelphia, Pennsylvania  
Award: Health Care Delivery and Policy Research  
Contracts  
Category: Health Care Delivery/ Policy  
Strategic Area: Stop  
Approx. Funding: $99,402  
Term: 7/15/2016-9/15/2018  

“Secondary Analysis of Existing Data Sets: Patient-Reported Reasons for Changes in DMT Use and Subsequent Treatments and Clinical Outcomes” Researchers at the University of Arizona are exploring the factors that help determine treatment choices and treatment switching to develop a framework for guiding decisions and improving outcomes.

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**Longevity Biotech, Inc,**

Longevity Biotech, Inc  
Philadelphia, Pennsylvania  
Award: Fast Forward  
Category: Preclinical Drug Development  
Strategic Area: Restore  
Approx. Funding: $316,384  
Term: 9/26/2017-3/31/2019  

“Evaluation of a Parkinson’s Disease Drug Candidate in Myelination Events Associated with Multiple Sclerosis” Pre-clinical testing of the ability of a drug being tested in Parkinson’s to protect and repair damaged nerve cells while also restoring balance to the immune system.

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**A.M. Rostami, MD, PhD**

Thomas Jefferson University  
Philadelphia, Pennsylvania  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $619,270  
Term: 4/1/2014-3/31/2018  

“IL-9 in the pathogenesis of CNS autoimmune inflammation” Will targeting a specific immune molecule be a promising path for stopping MS immune attacks?

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**A.M. Rostami, MD, PhD**

Thomas Jefferson University  
Philadelphia, Pennsylvania  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $650,000  
Term: 4/1/2017-3/31/2020  

“IL-37, a novel therapeutic intervention for autoimmune neuroinflammation” Researchers at Thomas Jefferson University in Philadelphia are exploring a novel strategy for stopping the immune attack in MS.
Maria Schultheis, PhD
Drexel University
Philadelphia, Pennsylvania
Award: Research Grants
Category: Rehabilitation
Strategic Area: Restore
Approx. Funding: $572,652
Term: 4/1/2015-3/31/2018

“Multitasking and MS: A cognitively-based approach to vocational rehabilitation” Drexel University researchers are studying multitasking in people with MS to find solutions for cognitive problems that affect employment.

Rodolfo Thome, PhD
Thomas Jefferson University
Philadelphia, Pennsylvania
Award: Postdoctoral Fellowships
Category: Immunology
Strategic Area: Stop
Approx. Funding: $184,654
Term: 7/1/2017-6/30/2020

“The role of IL-7 in pathogenesis of Experimental Autoimmune Encephalomyelitis” Researchers at Thomas Jefferson University are investigating the role of an immune molecule that may drive damaging inflammation in MS.

RHODE ISLAND
Stephen Buka,
Brown University
Providence, Rhode Island
Award: Research Grants
Category: Epidemiology
Strategic Area: Stop
Approx. Funding: $753,335
Term: 4/9/2016-3/31/2018

“Multiple sclerosis: prevalence & social functioning by disease duration & subtype” A comprehensive study of the impact of MS on employment, interpersonal relations and daily living.

Theresa Shireman, PhD
Brown University
Providence, Rhode Island
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Restore
Approx. Funding: $560,862
Term: 10/1/2014-9/30/2018

“Effectiveness of Medicaid's Home- and Community-Based Services for Persons with Multiple Sclerosis” Optimizing home- and community-based services to maintain the independence of people with MS.

SOUTH DAKOTA
Surachat Ngorsuraches, PhD
South Dakota State University
Brookings, South Dakota
Award: Health Care Delivery and Policy Research Contracts
Category: Health Care Delivery/ Policy
Strategic Area: Stop
Approx. Funding: $117,878
Term: 10/1/2016-3/31/2018

“Examining the cost-escalation and patient valuation of disease-modifying therapies for multiple sclerosis” Researchers at South Dakota State University are investigating patient valuation of MS treatments.
TENNESSEE
Hongbo Chi, PhD
St. Jude Children's Research Hospital
Memphis, Tennessee
Award: Research Grants

“Metabolic control of TH17 cell plasticity and pathogenicity in neuroinflammation” Researchers at St. Jude Children's Research Hospital in Memphis, TN, are studying a novel immune pathway that may help to protect mice from developing MS-like disease, for clues to stopping the attack in MS.

Seth Smith, PhD
Vanderbilt University Medical Center
Nashville, Tennessee
Award: Research Grants

“Quantitative and Longitudinal MRI Characterization of Spinal Cord Damage in Patients with MS” Imaging specialists at Vanderbilt University are developing and implementing new, high-resolution MRI methods to better visualize and track MS disease activity and damage in the spinal cord.

Luc Van Kaer, PhD
Vanderbilt University Medical Center
Nashville, Tennessee
Award: Research Grants

“Promoting regulatory interactions between iNKT cells, MDSCs and Tregs as a therapeutic approach for MS” Researchers at Vanderbilt University in Nashville are seeking ways to regulate the immune system to retain its helpful functions and turn off its harmful functions to develop a novel way of treating MS with fewer side effects.

TEXAS
Benjamin Deneen, PhD
Baylor College of Medicine
Houston, Texas
Award: Research Grants

“The role of NFIA in reactive astrocytes after white matter injury” Researchers at Baylor College of Medicine are investigating a protein that may play a role in myelin repair and replacement of lost nerve cells, two events that may improve progressive MS.

Funded in part by the The David and Eula Wintermann Foundation

Thomas Forsthuber, MD, PhD
The University of Texas at San Antonio
San Antonio, Texas
Award: Research Grants

“NETs and lipid peroxidation as drivers of progressive EAE” University of Texas at San Antonio researchers are exploring how to stop nervous system damage, for clues to developing treatments that stop MS progression.
John Hart, MD
University of Texas at Dallas
Richardson, Texas
Award: Research Grants
Category: Neurophysiology
Strategic Area: Restore
Approx. Funding: $692,330
Term: 4/1/2014-3/31/2018

“Identifying and Characterizing Auditory Processing Disruptions in Multiple Sclerosis” Developing a better way to track the problem of understanding spoken language in people with MS.

Teng-Wei Huang, PhD
Baylor College of Medicine
Houston, Texas
Award: Postdoctoral Fellowships
Category: CNS Repair
Strategic Area: Restore
Approx. Funding: $172,507
Term: 7/1/2017-6/30/2020

“The role of Sox9 in remyelination after white matter injury” Researchers at Baylor College of Medicine are exploring a novel pathway to understand why myelin repair fails in people with MS, for clues to a possible repair strategy.

Hyun Kyoung Lee, PhD
Baylor College of Medicine
Houston, Texas
Award: Research Grants
Category: Biology of Glia
Strategic Area: Restore
Approx. Funding: $375,000
Term: 3/1/2016-2/28/2019

“The Role of Daam2 in Oligodendrocyte Development and Multiple Sclerosis” Focusing on molecules that control the maturation process of cells that can repair lost myelin in MS.

Jianrong Li, PhD
Texas A&M AgriLife Research
College Station, Texas
Award: Research Grants
Category: CNS Repair
Strategic Area: Stop
Approx. Funding: $521,327
Term: 10/1/2017-9/30/2020

“Role of Galectin-9 in CNS Inflammation, Demyelination and Myelin Repair” Researchers at Texas A&M University are investigating a target for developing biomarkers and treatment strategies for progressive MS.

Jianrong Li, PhD
Texas A&M AgriLife Research
College Station, Texas
Award: Research Grants
Category: Immunology
Strategic Area: Stop
Approx. Funding: $554,289
Term: 4/1/2016-3/31/2019

“Stat3 in myeloid cells: a regulator of autoimmune demyelination” Texas A&M University researchers are targeting a molecule whose signals may be crucial to stopping the immune attack on the brain and spinal cord in MS.
**John Lindsey, MD**  
The University of Texas Health Science Center at Houston, Texas  
Award: Pilot Research Grants  
**“CD8 cells in multiple sclerosis: Pilot proposal”** Exploring whether virus proteins stimulate an immune response similar to that which occurs in MS.

**Bart Rypma, PhD**  
The University of Texas at Dallas  
Award: Research Grants  
**“The Effect of Neural-Vascular Coupling Changes on Cognitive Performance in Multiple Sclerosis”**  
University of Texas, Dallas researchers are seeking to understand biological mechanisms that underlie MS “brain fog” as a path toward finding solutions to cognitive problems in MS.

**Olaf Stuve, MD, PhD**  
The University of Texas Southwestern Medical Center  
Award: Pilot Research Grants  
**“Determining the role of PDCB in CNS autoimmunity”**  
Investigating the role of a possible environmental trigger in worsening MS.

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**UTAH**

**Theron Casper, PhD**  
University of Utah  
Award: Health Care Delivery and Policy Research Contracts  
**“Multiple Sclerosis Pediatric Network Renewal”** 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.

**Lee Dibble, PT, PhD**  
University of Utah  
Award: Research Grants  
**“Gaze and postural stability in persons with MS at risk for falls: Characterizing deficits and response to treatment”** Researchers at the University of Utah are investigating whether exercises specifically designed to improve inner ear function can improve balance and vision stability in people with MS.
Laura Dickey, PhD  
University of Utah  
Salt Lake City, Utah  
Award: Postdoctoral Fellowships  
Category: CNS Repair  
Strategic Area: Restore  
Approx. Funding: $166,724  
Term: 7/1/2015-6/30/2018  

“Human neural precursor cell-mediated remyelination in a viral model of MS” Researchers at the University of Utah are testing the idea that molecules secreted by stem cells improve potential for repairing nerve-insulating myelin.  
The McCartney Family Postdoctoral Fellow

K. Bo Foreman, PT, PhD  
University of Utah  
Salt Lake City, Utah  
Award: Pilot Research Grants  
Category: Human Therapy Trials/Management of MS  
Strategic Area: Restore  
Approx. Funding: $43,910  
Term: 9/1/2016-2/28/2018  

“Compensatory Step Training in Persons with MS: Characterizing Postural Motor Learning” Studying the effectiveness of balance training to improve the ability of people with MS to prevent themselves from falling.

Thomas Lane, PhD  
University of Utah  
Salt Lake City, Utah  
Award: Collaborative Research Center Awards  
Category: Neuropathology  
Strategic Area: Restore  
Approx. Funding: $825,000  
Term: 7/1/2017-6/30/2022  

“Novel approaches towards understanding disease progression and repair using viral models of multiple sclerosis” University of Utah researchers from a variety of fields are trying different experimental approaches including adult stem cells to stop progression of MS-like disease in mice and promote repair of the nervous system.

VERMONT  
Dimitry Krementsov, PhD  
University of Vermont  
Burlington, Vermont  
Award: Research Grants  
Category: Immunology  
Strategic Area: Stop  
Approx. Funding: $552,845  
Term: 10/1/2016-9/30/2019  

“Mechanisms of Sex-Specific p38 MAPK-Mediated Pathogenesis in CNS Autoimmunity” University of Vermont researchers are exploring immune system activity that may explain why MS affects women more than men, and may yield a strategy for stopping the immune attack.

Cory Teuscher, PhD  
University of Vermont  
Burlington, Vermont  
Award: Research Grants  
Category: Immunology  
Strategic Area: End  
Approx. Funding: $489,879  
Term: 4/1/2015-3/31/2018  

“Identification of gene-by-environment interactions contributing to CNS autoimmune disease” University of Vermont researchers are using mice with MS-like disease to look at interactions between genes and the environmental factors Vitamin D and exposure to UV/sunlight for clues to preventing or treating MS.
**VIRGINIA**

**Babette Fuss, PhD**
Virginia Commonwealth University
Richmond, Virginia
Award: Research Grants

“**ATX: a regulator of CNS myelination**” Researchers from Virginia Commonwealth University are studying a signaling pathway to determine its potential for stimulating immature myelin-making cells to mature and form new myelin to restore function in MS.

**Myla Goldman, MD**
University of Virginia
Charlottesville, Virginia
Award: Research Grants

“**Assessment of the Clinical Importance of Insulin Resistance & Steroid-Associated Hyperglycemia in Relapsing Multiple Sclerosis**” A team from the University of Virginia School of Medicine is exploring whether controlling blood sugar can decrease the severity and/or improve recovery from an acute MS relapse.

**Jonathan Kipnis, PhD**
University of Virginia
Charlottesville, Virginia
Award: Research Grants

“**The role of meningeal lymphatics in EAE/MS**” University of Virginia researchers are exploring the role of a previously unknown path of immune cells for clues to stopping MS.

**Carmen Sato-Bigbee, PhD**
Virginia Commonwealth University
Richmond, Virginia
Award: Research Grants

“**The μ-opioid/nociceptin-orphanin FQ receptor system in oligodendrocyte development and remyelination**” Researchers at Virginia Commonwealth University are investigating newly discovered docking sites that may be key to stimulating natural repair of nerve-insulating myelin.

**WASHINGTON**

**Kevin Alschuler, PhD**
University of Washington
Seattle, Washington
Award: Pilot Research Grants

“A single-session cognitive behavioral pain intervention to proactively address pain catastrophizing in individuals with MS” Testing an intervention for reducing pain early in the course of MS.
**Kevin Alschuler, PhD**  
University of Washington  
Seattle, Washington  
Award: Research Grants  
*“Life after MS diagnosis: a biopsychosocial assessment of symptom trajectory”*  
How does quality of life change for individuals over the first year after diagnosis with MS?

**Estelle Bettelli, PhD**  
Benaroya Research Institute  
Seattle, Washington  
Award: Research Grants  
*“Cell type specific modulation of STAT1 signaling to prevent the development of CNS autoimmunity”*  
Researchers at the Benaroya Research Institute in Seattle are studying a signaling pathway with the goal of improving protecting the nervous system from MS damage.

**Charles Bombardier, PhD**  
University of Washington  
Seattle, Washington  
Award: Research Grants  
*“The effect of aerobic exercise on cognition in multiple sclerosis”*  
Can aerobic exercise improve cognitive impairment in people with MS?

**Ivan Molton, PhD**  
University of Washington  
Seattle, Washington  
Award: Pilot Research Grants  
*“Psychological intervention to improve coping with uncertainty in persons recently diagnosed with MS”*  
Exploring whether a specific type of counseling can help people newly diagnosed with MS to cope with the unpredictable nature of the disease.

**Aaron Turner, PhD**  
University of Washington  
Seattle, Washington  
Award: Mentor-Based Postdoctoral Fellowships  
*“The Seattle collaborative post-doctoral fellowship in MS rehabilitation research”*  
A training program to provide fellows research skills that will enable them to conduct studies aimed at improving quality of life for people with MS.

**WEST VIRGINIA**

**Gordon Meares, PhD**  
West Virginia University  
Morgantown, West Virginia  
Award: Career Transition Fellowships  
*“LKB1 and AMPK Signaling in Neuroinflammation”*  
Studying how cells in the brain and spinal cord may influence the immune system in MS, for clues to stopping immune attacks.
“A Novel Specific Treatment for Progressive MS: Elimination of Mitochondrial Anchoring”
Researchers at the University of Wisconsin in Madison are studying mouse models with features similar to progressive MS to investigate possible new approaches to stopping MS progression.

“Characterization of a novel regulatory B cell subset that attenuates EAE”
Researchers at the BloodCenter of Wisconsin are investigating how a subset of immune “B cells” reduces inflammation, for clues to harnessing this power to stop MS.

“Remyelination following global demyelination and its promotion in a novel animal model”
Researchers at the University of Wisconsin-Madison are exploring factors controlling the repair of nerve-insulating myelin and ways to non-invasively detect repair and enhance the process.

“Investigating the Effect of Photobiomodulation Therapy for Improved Muscle Function in Relapsing/Remitting Multiple Sclerosis”
Researchers are conducting a clinical trial to determine the effectiveness of a form of light therapy to treat muscle fatigue in people with MS.

“Therapeutic implications of KYC, a novel myeloperoxidase inhibitor, in multiple sclerosis”
Can blocking free radicals in an MS model provide clues to stopping disease progression in people with MS?