

# Neuroregeneration Research Institute



McLean Hospital  
a Harvard Medical School affiliate



Co-Directors: Ole Isacson, M.D.-Ph.D. and Penelope Hallett, Ph.D.

A Parkinson's, Alzheimer's and Degenerative Brain Aging Research Center of Excellence

### *A Legacy of Research, Training and Care*

*Founded in 1811, McLean Hospital sponsors a program of research in neuroscience. It is a major teaching hospital of Harvard Medical School. As a member of Partners HealthCare System, a nonprofit, integrated healthcare delivery system established in 1994 that includes Massachusetts General Hospital and Brigham and Women's Hospital, McLean offers its patients an unparalleled combination of world-class medical and psychiatric services.*



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Visit the website at <http://neuroregeneration.org>

## *The Values of the Neuroregeneration Research Institute*

*The Neuroregeneration Research Institute aims to provide the best of basic academic research towards relevant and achievable therapies for neurodegenerative disease by:*

- *Providing an environment where academic neuroscience research can be performed with the goal of advancing therapies for Parkinson's disease, Alzheimer's disease, Huntington's disease, Amyotrophic Lateral Sclerosis and related disorders. We aim to do the finest and most detailed scientific basic research with the perspective of translating these findings into relevant therapeutic gains for patients in need. This environment therefore provides cutting-edge research for clinicians and scientists, training opportunities for students and fellows and an advanced technical capacity to investigate new leads for discoveries.*
- *Serving as an academic research center by educating students and research staff in neurobiology towards professional values in the medical sciences, and to whenever possible facilitating public awareness of this research and the new information it provides.*
- *Interacting and collaborating with other research teams and centers, universities, patient groups and governmental agencies as well as the biotechnology and pharmaceutical industry to maximize the therapeutic benefits of this research.*

## **New Research Frontiers of Parkinson's, Alzheimer's diseases and degenerative brain aging**

The implications of this research are enormous. Recent data from the Neuroregeneration Institute shows that with aging, many people develop lysosomal storage diseases without being aware of it. We feel that many cases of Parkinson's disease (PD) and related disorders are in fact "acquired lysosomal storage diseases" and this concept is completely new. If indeed these degenerative aging changes put many people at risk, we need to discover the factors and biomarkers that determine degenerative brain aging, including Parkinson's and Alzheimer's disease. Several new projects are designed to explore and determine the science behind degenerative brain aging at the Neuroregeneration Institute.

While we work on neuroprotection to delay onset of disease, many people will experience significant neurodegeneration and cell loss to cause symptoms. To help PD and other patients at that stage, the Neuroregeneration Institute is at the forefront of regenerative medicine for brain disorders. Several pioneering projects are underway including an autologous dopamine neuron cell preparation for Parkinson's disease patients in clinical trials. In addition, future brain repair methods are being developed through new scientific projects and initiatives.

## **How you can help**

The Center accepts donations to help fund research work that may lead to the cure for neurodegenerative diseases. A non-profit, McLean-monitored fund supports opportunities to start necessary new projects and maintain our excellent staff. Please go to <https://givemclean.partners.org/sslpage.aspx?pid=379> to make an on-line donation to this fund. Or contact us at:

Neuroregeneration Research Institute/  
Neuroregeneration Laboratories  
McLean Hospital  
115 Mill St.  
Belmont, MA 02478  
Tel: (617) 855-3283  
Fax: (617) 855-2522  
Email: [spohlman@mclean.harvard.edu](mailto:spohlman@mclean.harvard.edu)  
<http://neuroregeneration.org>



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