Translational Neuroimmunology In Multiple Sclerosis From Disease Mechanisms To Clinical Applications

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Multiple Sclerosis and Genetics
Neuroimmunology and Multiple Sclerosis. The Division of Neuroimmunology in the Department of Neurology is an international hub for the clinical care of immune disorders of the brain and spinal cord and for innovative, transformative translational research in neurodegenerative and inflammatory diseases of adults and children.

Natalizumab for Multiple Sclerosis: A Case in Point for ...
The key features of multiple sclerosis (MS) pathology have already been defined during the late 19th century. The cardinal alteration seen in MS patients is the presence of large confluent demyelinated plaques within the white matter of the brain and spinal cord, which can already be depicted by the naked eye13., 17. ()These demyelinated lesions are invariably centered by a vein, which shows ...

Neuroimmunology and Multiple Sclerosis | Columbia ...
Andrea Ochoa-Raya was competitively selected for the National Multiple Sclerosis Society for their Travel Award to attend the Autumn Immunology Conference in November 2019. Andrea will present her work utilizing whole-organ clearing strategies to characterize regional differences in the blood-spinal cord barrier.

Multiple sclerosis | Neurology Neuroimmunology ...
TRANSLATIONAL RESEARCH. The Laboratory for Neuroimmunology focusses on translational research on multiple sclerosis (MS). This means that we start from important clinical questions, and investigate these in the laboratory. The aim is to translate the results back to improved health care for MS patients.

Overview - Translational Neuroimmunology Laboratory - Mayo ...
Advances in translational neuroimmunology over the last two decades have revolutionized the treatment of relapsing forms of multiple sclerosis. A pathological hallmark of multiple sclerosis is the presence of leukocytes in the areas of disease activity in the CNS.

Lutz Lab – Translational Neuroimmunology at University of ...
The physicians, nurses, researchers and staff of the Stanford Multiple Sclerosis Neuroimmunology Program are committed to being at the forefront of efforts to understand and treat diseases in which the immune system attacks the body□s neurological system. The program is dedicated to the diagnosis, clinical care,...

Translational Neuroimmunology in Multiple Sclerosis - 1st ...
Translational Neuroimmunology in Multiple Sclerosis provides an overview of recent findings and knowledge of the neuroimmunology of multiple sclerosis, from experimental models and the human disease to the translation of this research to immunotherapeutic strategies. Chapters describe genetic and environmental factors underlying the disease pathogenesis of MS as a basis for development of immunotherapies, immunological markers of disease activity, pharmacogenetics, and responses to therapy.

News | Duke Department of Neurology
Overview. The Translational Neuroimmunology Laboratory of Charles L. Howe, Ph.D., focuses on understanding and therapeutically manipulating immunological responses to injury, loss of homeostasis, degeneration, autoimmunity and infection in the central nervous system, with the goal of protecting neurons, axons and neural circuits.

Mechanisms of Axon Injury in Multiple Sclerosis ...
Translational Neuroimmunology in Multiple Sclerosis provides an overview of recent findings and knowledge of the neuroimmunology of multiple sclerosis, from experimental models and the human disease to the translation of this research to immunotherapeutic strategies.

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Risks and risk management in modern multiple sclerosis ...
The 14th International Congress of Neuroimmunology, ISNI 2018, was held in August 2018 in Brisbane, Australia, and is a biennial event organized by the International Society of Neuroimmunology (ISNI). The theme of ISNI 2018 was “Travelling the Neuroimmunological Translational Highway”, and the Congress ...

Stanford Multiple Sclerosis and Neuroimmunology Program ...
Change of treatment paradigms in multiple sclerosis. Multiple sclerosis (MS) is a chronic immune-mediated inflammatory demyelinating disease of the central nervous system (CNS) that primarily affects young adults with a mean age of onset between 20 and 40 years of age.

Translational Neuroimmunology in Multiple Sclerosis ...
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Chitnis-Translational Neuroimmunology Research Center ...
Multiple sclerosis (MS) is a chronic, presumably autoimmune disease of the CNS. 1,2 As with other autoimmune diseases, the triggers of the autoimmune reaction are unknown. However, cross-reactivity between autologous self-antigens and microbial non-self-antigens, termed molecular mimicry, has long been considered as candidate mechanism. 3, –, 5 This holds especially for T cells, which ...

Update on Translational Neuroimmunology - Research of ISNI ...
Chitnis Lab: Translational Neuroimmunology Research Center. The goal of the TNRC is to bring bench findings to the bedside through the identification of new biomarkers, algorithms and therapeutic targets for neuroimmunological diseases including MS, pediatric MS and neuromyelitis optica. ... Pediatric Multiple Sclerosis.

Translational Neuroimmunology in Multiple Sclerosis: From ...
The goal of the lab's research into mechanisms of axon injury in multiple sclerosis is to characterize pathogenic cascades that can be therapeutically targeted to preserve function in patients with the disease. Loss of axons as a result of demyelination is the principal cause of progressive loss of neurological function in these patients.

Laboratory for Neuroimmunology - KU Leuven
Dr. Jaime Imitola is director of the UConn Health Division of Multiple Sclerosis and Translational Neuroimmunology. (Tina Encarnacion/UConn Health photo) We sat down with the new director of the Multiple Sclerosis (MS) and neuro-immunology program, Dr. Jaime Imitola , a clinician scientist recruited from Ohio State.

Meet the New Director of the Multiple Sclerosis Program ...
News - Epilepsy, Sleep, and Neurophysiology, General & Community Neurology, Headache and Pain, Memory Disorders, Multiple Sclerosis & Neuroimmunology, Neurocritical Care, Neuromuscular Disease, Parkinson's Disease And Movement Disorders, Stroke and Vascular Neurology, Translational Brain Sciences, Chiba-Falek Lab

Translational neuroimmunology in multiple sclerosis : from ...
Dr. Jaime Imitola, FAAN, director of Multiple Sclerosis and Translational Neuroimmunology at the University of Connecticut School of Medicine talked to Healthline to help interpret all this data. Imitola clarified the distinction in risk between familial MS and the other forms of MS, such as spontaneous.