Neurology

◆Overview

The 21st century is the “Century of Neuroscience”. Therefore we adopt a multidisciplinary approach using various methologogies such as molecular biology, physiology, neuroimaging, and proteomics for each neurological disorder to clarify the pathogenesis on a molecular level and to develop novel treatments. All staf members are striving towards medical treatment, research, education, and a social contribution in the field of neurological diseases by cultivating excellent neurologists.

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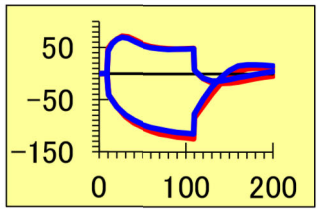
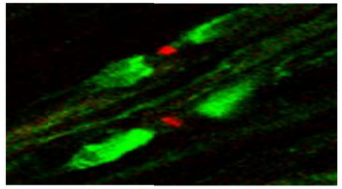
◆Research & Education

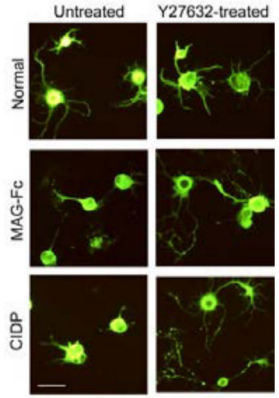
1. Pathogenesis of neuro-immunological diseases
2. Neuronal/axonal ion channel physiology
3 Brain functional-molecular imaging
4. Molecular biology of neurodegenerative disorders…
6. Development of new treatments for motor neuron diseases.
7. Pathogenesis and treatment of neuropathic pain syndrome
8. Peripheral nerve regeneration: promotion of axonal growth
9. Clinical neurophysiology and axonal excitability testing



Threshold electrotonus in ALS



ion channels



Axonal growth assay in rat DRG neurons

◆Recent Publications

1) Misawa S, Sato Y, Katayama K, Nagashima K, Aoyagi R, Sekiguchi Y, Sobue G, Koike H, Yabe I, Sasaki H, Watanabe O, Takashima H, Nishizawa M, Kawachi I, Kusunoki S, Mitsui Y, Kikuchi S, Nakashima I, Ikeda S, Kohara N, Kanda T, Kira J, Hanaoka H, Kuwabara S; Japanese POEMS Syndrome for Thalidomide (J-POST) Trial Study Group.. Safety and efficacy of thalidomide in patients with POEMS syndrome: a multicentre, randomised, double-blind, placebo-controlled trial. **Lancet Neurology** 2016 Oct;15(11):1129-37.
2) Shibuya K, Sugiyama A, Ito S, Misawa S, Sekiguchi Y, Mitsuma S, Iwai Y, Watanabe K, Shimada H, Kawaguchi H, Suhara T, Yokota H, Matsumoto H, Kuwabara S. Reconstruction magnetic resonance neurography in chronic inflammatory demyelinating polyneuropathy. **Annals of Neurology** 2015 Feb;77(2):333-7
3) Kuwabara S, Yuki N. Axonal Guillain-Barré syndrome: concepts and controversies. **Lancet Neurology** 2013 Dec;12(12):1180-8.

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