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Inhibitory Synaptic Plasticity—Amazon.co.uk: Woodin—

From 1997-2001 Melanie conducted her PhD in the Department of Cell Biology and Anatomy at the University of Calgary, under the supervision of Dr. Naweed Syed, where she characterized the role of trophic factors in inhibitory synapse formation. During her Postdoctoral studies in the lab of Mu-ming Poo at the University of California Berkeley, Melanie discovered the spike-timing dependent plasticity of inhibitory GABAergic synapses in the hippocampus.

Melanie Woodin, PhD—Exploring Inhibitory Synaptic Plasticity

Inhibitory Synaptic Plasticity integrates studies that have examined the induction, expression and functional role of inhibitory synaptic plasticity at different organizational levels (from the neuron to the circuit), through four main parts: Refinement, Addiction, Pain & Injury, and Learning & Memory. This volume brings together a large portion of the current thinking about the plasticity of inhibitory synapses, and will foster new ideas and hypotheses for the study of brain circuits and ...

Inhibitory Synaptic Plasticity | Melanie A. Woodin | Springer

Inhibitory Synaptic Plasticity explores recent findings on cellular mechanisms of inhibitory plasticity and its functional role in shaping neuronal circuits, their rewiring in response to experience, drug addiction and in neuropathology. The text is of particular interest to neuroscientists and neurophysiologists.

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But to fully understand how brain functions develop and are maintained, there is a need for studying the interaction between the different forms of plasticity. Inhibitory Synaptic Plasticity integrates studies that have examined the induction, expression and functional role of inhibitory synaptic plasticity at different organizational levels (from the neuron to the circuit), through four main parts: Refinement, Addiction, Pain & Injury, and Learning & Memory.

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10. Activity-Dependent Inhibitory Synaptic Plasticity Mediated by Chloride Regulation Trevor Balena, Brooke A. Acton, Melanie A. Woodin. 11. Endocannabinoid Mediated Long-Term Depression at Inhibitory Synapses Chiayu Q. Chiu, Pablo E. Castillo. 12. Inhibitory Synaptic Plasticity and Neurotrophins Jean-Luc Gaiarsa, Nicola Kuczewski, Christophe ...

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Melanie A. Woodin is the author of Inhibitory Synaptic Plasticity (0.0 avg rating, 0 ratings, 0 reviews, published 2010)

Melanie A. Woodin (Author of Inhibitory Synaptic Plasticity)

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Melanie Woodin—Google Scholar

Whether inhibitory synaptic plasticity may also contribute to the selective regulation of single neurons and local microcircuits activity has not been investigated. Here we demonstrate that in rat primary visual cortex inhibitory synaptic plasticity is connection specific and depends on the activation of postsynaptic GABA B –G_{i/o} protein signaling. Through the activation of this intracellular signaling pathway, inhibitory plasticity can alter the state of a single postsynaptic neuron and ...

Inhibitory Plasticity Dictates the Sign of Plasticity at—

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This volume will explore the most recent findings on cellular mechanisms of inhibitory plasticity and its functional role in shaping neuronal circuits, their rewiring in response to experience, drug addiction and in neuropathology. Inhibitory Synaptic Plasticity will be of particular interest to neuroscientists and neurophysiologists.

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In neuroscience, synaptic plasticity is the ability of synapses to strengthen or weaken over time, in response to increases or decreases in their activity. Since memories are postulated to be represented by vastly interconnected neural circuits in the brain, synaptic plasticity is one of the important neurochemical foundations of learning and memory (see Hebbian theory).

Synaptic plasticity—Wikipedia

Neurons exhibit distinct homeostatic and Hebbian forms of plasticity that stabilize firing rate and adaptively alter synaptic input patterns, respectively. How these mechanisms are recruited in response to sensory experience in vivo is unclear. We studied plasticity in rodent somatosensory cortex, where the neural map of the whiskers adaptively changes to reflect sensory statistics but only ...