

Neuropathic pain : glial responses and plasticity in the spinal nociceptive network

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Neuropathic pain: glial responses and plasticity in the spinal nociceptive network

Robby Jaken

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1 The intractable nature of neuropathic pain is mediated by an excess of excitatory input into the spinal nociceptive network which cannot be satisfactorily counteracted by current anti-pain medication.

This thesis

2 Nerve-injury-induced synaptic plasticity in the spinal substantia gelatinosa contributes to the chronic nature of neuropathic pain.

This thesis

3 Although of similar morphology, astroglia play an opposite role in late phases of neuropathic pain in comparison to their well-known role in early phases.

This thesis

4 Clinical use of glial inhibitors cannot be recommended in treatment of neuropathic pain without extended knowledge about the role of glia in neuropathic pain.

This thesis

5 Sprouting of nociceptive fibers turns touch into pain by sensitizing and consequently activating a normally silent circuit within the nociceptive network.

This thesis

6 "The worst pain a man can suffer: to have insight into much and power over nothing."

Herodotus

7 "Science is organized knowledge. Wisdom is organized life."

Immanuel Kant

8 "We do not write because we want to; we write because we have to."

William Somerset Maugham

9 "In science the credit goes to the man who convinces the world, not the man to who the idea first occurs."

Sir Francis Darwin

10 "I don't know half of you half as well as I should like; and I like less than half of you half as well as you deserve."

John Ronald Reuel Tolkien