

Genetics of neuropathic pain

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Propositions belonging to the thesis

**Genetics of neuropathic pain:
the emerging role of variants in ion channels and pain-related genes**

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1. Ion channel gene variants cause neuropathic pain of different aetiologies (this thesis).
2. Extensive genetic heterogeneity is observed in patients with neuropathic pain and more causative genes can be expected (this thesis).
3. All ion channel genes and pain-related genes must be screened for mutations in patients with neuropathic pain (this thesis).
4. Next Generation Sequencing (NGS) of novel genes in patients with neuropathic pain results in identification of significant number of variants with uncertain clinical significance, indicating that these genes play a role in neuropathic pain (this thesis).
5. Genetic screening will reveal variants in multiple genes in a single patient with neuropathic pain, indicating that a combination of variants will explain the clinical manifestation.
6. High-throughput functional analysis of novel variants are essential to keep up with the speed of NGS in identifying them.
7. Functional validation of variants reveals (novel) treatment targets.
8. A personalized therapy based on the patient's genetic and clinical profile is essential for a positive clinical outcome (impact).
9. "Pain is inevitable, suffering is optional." Buddhist Proverb
10. "You will never win if you never begin." Helen Rowland
11. "An investment in knowledge pays the best interest." Benjamin Franklin