

Patient-derived neuronal models for pharmacogenetic pain treatment of sodium channelopathies

Citation for published version (APA):

Labau, J. I. R. (2022). Patient-derived neuronal models for pharmacogenetic pain treatment of sodium channelopathies. [Doctoral Thesis, Maastricht University]. Maastricht University. https://doi.org/10.26481/dis.20220421jl

Document status and date: Published: 01/01/2022

DOI: 10.26481/dis.20220421jl

Document Version: Publisher's PDF, also known as Version of record

Please check the document version of this publication:

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 The final published version features the final layout of the paper including the volume, issue and page numbers.

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"Patient-derived neuronal models for pharmacogenetic pain treatment of sodium channelopathies"

JULIE I.R. LABAU MAASTRICHT, APRIL 21st, 2022

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- 2. Channeling the inner pore: For the first time, the voltage-sensing domain plays a role in the binding of an anti-epilectic drug (*this thesis*)
- 3. Recovering patient-derived native cell qualities is critical to optimizing translational pain studies (*this thesis*)
- 4. Dynamic clamp allows for the functional expression of all three main painful sodium channels in stem cells (*this thesis*)
- 5. The incorporation of routine pharmacogenomic testing in chronic pain patients will significantly improve treatment outcomes (*valorisation*)
- 6. Personalized medicine will be a prelude to the end of the opioid crisis.
- 7. Electricity is in the air, sodium channels become Big Pharma targets
- 8. Back to the source: Scientists are exploring 'new' ways to treat pain, deriving drugs from plants and venomous animals
- 9. A life without pain is a short-lived one
- 10. "Quand tu crois enfin que tu t'en sors, quand il n'y en a plus, il y en a encore"Stromae
- 11. "Everything is theoretically impossible, until it's done" Robert A. Heinlein
- 12. "Every mountain top is within reach if you just keep climbing" Barry Finlay