

Accepted Manuscript

Title: Recent advances in epilepsy genetics

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PII: S0304-3940(17)30402-0

DOI: <http://dx.doi.org/doi:10.1016/j.neulet.2017.05.014>

Reference: NSL 32821

To appear in: *Neuroscience Letters*

Received date: 20-12-2016

Revised date: 20-4-2017

Accepted date: 8-5-2017

Please cite this article as: Alessandro Orsini, Federico Zara, Pasquale Striano, Recent advances in epilepsy genetics, *Neuroscience Letters* <http://dx.doi.org/10.1016/j.neulet.2017.05.014>

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MINIREVIEW

Neuroscience Letters

Recent advances in epilepsy genetics¹Alessandro Orsini, ²Federico Zara, ¹Pasquale Striano

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Highlights:

- 1: Several genetic tests are available for diagnostic purposes in epilepsy patients
- 2: Next-generation sequencing is revealing novel epilepsy genes
- 3: The identification of the genetic aetiology may improve epilepsy treatment

ABSTRACT

In last few years there has been rapid increase in the knowledge of epilepsy genetics. Nowadays, it is estimated that genetic epilepsies include over than 30 % of all epilepsy syndromes. Several genetic tests are now available for diagnostic purposes in clinical practice. In particular, next-generation sequencing has proven to be effective in revealing gene mutations causing epilepsies in up to a third of the patients. This has lead also to functional studies that have given insight into disease pathophysiology and consequently to

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