

TITOLO: MicroRNAs in the Pathogenesis, Treatment and Prevention of Epilepsy

EpimiRNA - FP7-HEALTH-2013-INNOVATION-1, Grant Agreement N. 602130 EpiMiRNA
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DIPARTIMENTI CHE PARTECIPANO: Dipartimento di Scienze Neurologiche e del Movimento

RESPONSABILE DEL PROGETTO: Prof. David Henshall, Royal College of Surgeons in Ireland

REFERENTE DEL PROGETTO PER L'UNIVERSITA' DEGLI STUDI DI VERONA: Prof. Paolo Fabene

IMPORTO TOTALE: 399.540,00 euro

ENTE FINANZIATORE: European Union (represented by the European Commission)

AREE DI RICERCA DEL PROGETTO:

MicroRNAs in the Pathogenesis, Treatment and Prevention of Epilepsy

OBIETTIVI:

MicroRNAs in the Pathogenesis, Treatment and Prevention of Epilepsy.

The Main Objectives of EpiMiRNA are:

- 1) Identify conserved changes in functioning miRNAs in epileptogenesis and determine the mechanism(s) by which miRNA changes contribute to epileptogenesis
- 2) Identify the miRNAs that are functional in human TLE brain and evaluate how non-pharmacological interventions including brain stimulation modulate miRNAs
- 3) Determine the role of genetic variation in miRNAs and their biogenesis pathway in human TLE
- 4) Use systems biology to integrate miRNA bioinformatic and functional data to explain how miRNA expression changes promote epileptogenesis
- 5) Develop novel miRNA-modulating molecules as future therapeutics for epilepsy