Cerebellar brain slice model

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SCOPE OF THE METHOD

The Method relates to	Animal health, Human health
The Method is situated in	Basic Research
Type of method	In vitro - Ex vivo
This method makes use of	Animal derived cells / tissues / organs
Species from which cells/tissues/organs are derived	Mus Musculus
Type of cells/tissues/organs	Brain (cerebellum)

DESCRIPTION

Method keywords

brainslices

cell culture

isolation
mouse

Scientific area keywords

basic research
fundamental research
neuroscience
myelin

Method description

This method describes the steps from a living mouse to a multi-cellular brain slice model where complex cellular interactions can be evaluated.

Lab equipment

Method status

Still in development

PROS, CONS & FUTURE POTENTIAL

Advantages

By maintaining brain morphology and ultrastructurally the brain cells present, a complex multicellular system is being formed where the interplay between different cells can be evaluated to identify novel remyelinating therapeutics, targets,...

Challenges

Inter-species differences ;

Terminal experiment for the lab animal ;

Requires a training period due to the susceptibility of the brain slices to cell death.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

Associated documents

Cerebellar brain slices.docx

PARTNERS AND COLLABORATIONS

Organisation

Name of the organisation Hasselt University

Department Biomed Neuro-Immune Connection and Repair

Country Belgium

Geographical Area Flemish Region

Coordinated by

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