Cerebellar brain slice model

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Organisation

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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
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.

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

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