

Cerebellar brain slice model

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Organisation

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Country Belgium

Geographical Area Flemish Region

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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