

Primary cortical neuron isolation

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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 (cortex)

DESCRIPTION

Method keywords

cell culture

isolation

Cortex

Neurons

Scientific area keywords

basic research

neuroscience

fundamental research

neurodevelopment

Method description

This method describes the steps from a living mouse to a single cell solution of primary cortical neurons.

Lab equipment

Method status

Internally validated

PROS, CONS & FUTURE POTENTIAL

Advantages

Primary cultures give rise to a condition more similar although not identical to the *in vivo* situation when compared to cell lines ;

Methodologically feasible ;

Wide application range within the field of neuroscience.

Challenges

Interspecies differences ;
Terminal experiment for the lab animal.

Future & Other applications

Adjustment of the protocol can be made to isolate primary neurons of other species.

REFERENCES, ASSOCIATED DOCUMENTS AND OTHER INFORMATION

Associated documents

[Primary cortical neurons.docx](#)

PARTNERS AND COLLABORATIONS

Organisation

Name of the organisation Hasselt University

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Country Belgium

Geographical Area Flemish Region

Coordinated by



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