Primary cortical neuron isolation

SCOPE OF THE METHOD

<table>
<thead>
<tr>
<th>The Method relates to</th>
<th>Animal health, Human health</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Method is situated in</td>
<td>Basic Research</td>
</tr>
<tr>
<td>Type of method</td>
<td>In vitro - Ex vivo</td>
</tr>
<tr>
<td>Species from which cells/tissues/organs are derived</td>
<td>Mus Musculus</td>
</tr>
<tr>
<td>Type of cells/tissues/organs</td>
<td>Brain (cortex)</td>
</tr>
</tbody>
</table>

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.

**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