

In vitro assay systems in the development of therapeutic interventions strategies for neuroprotection and repair

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Statements
Belonging to the PhD thesis:

**In vitro assay systems in the development
of therapeutic intervention strategies for neuroprotection and repair**

Jose Luis Gerardo Nava
Maastricht, December 9th 2014

1. The use of astrocytic tumor cell lines for the study of cell-substrate interactions in biomaterial research is of limited predicted value (this thesis).
2. Organotypic slice cultures represent a new tool for in vitro investigation of tissue - substrate interactions, especially the study of MN axonal growth in the field of biomaterials (this thesis).
3. Using organotypic slice cultures for drug screening experiments focusing on glutamate and its mechanisms of action in the CNS, requires close consideration of both age and location of the source tissue (this thesis).
4. The SPC-01 human fetal spinal cord stem cell line has an active glutamate uptake machinery and could be used as a therapeutic agent against excitotoxicity (this thesis).
5. Models know one thing and only one, unless you teach them new tricks.
6. Never overlook the power of small characters in a story. They may harness the key to solve the puzzle.
7. Value cannot be placed on Research by the use of a point system. It is not a mileage program.
8. "Your brain is built of cells called neurons and glia - hundreds of billions of them. Each one of these cells is as complicated as a city." - David Eagleman
9. "Crazy people are not crazy if one accepts their reasoning." - Gabriel García Márquez (*Of Love and Other Demons*)