neuroGLIA Consortium

Research Areas

Basic Research
Data-Sharing Enabler

At a Glance

- Status: Completed Consortium
- Year Launched: 2008
- Initiating Organization: European Commission’s 7th Framework Programme
- Initiator Type: Government
- Location: Europe

Abstract

NeuroGLIA represents a concerted effort of European research groups dedicated to increase our knowledge on glial function and to unravel the role of neuron-glial interaction in the healthy and diseased brain. In particular, the consortium investigates glial cells in initiation and progression of epilepsy.

Mission

The following specific objectives were pursued with this project:

- integrated characterization of astroglial cell subtypes with respect to neuron-glia interactions;
- identification of molecular and signaling pathways from neuron-to-astroglia and astrogliato-neuron in situ and in vivo;
- temporal and spatial dynamics of astroglia-neuron interaction in the normal and epileptic brain in situ and in vivo;
- identification of the role of astroglia in neurovascular coupling in the normal and epileptic brain;
- characterization of inflammation-related deregulation of astroglia-neuron signaling in epilepsy;
- neuron-astroglia signaling in living human brain tissue.

Structure & Governance

The consortium is a project of the European Commission’s 7th Framework Programme

Financing

Funded by the European Commission's 7th Framework Programme

Impact/Accomplishment

The project’s major scientific and technological results can be summarized as follows:

- Performed a thorough and integrated characterization of astroglial cell subtypes with respect to neuron-glia interactions.
- Identified many molecular and signaling pathways from neuron-to-astroglia and astroglia-to-neuron in situ and in vivo.
- Investigated the temporal and spatial dynamics of astroglia-neuron interaction in the normal and epileptic brain in situ and in vivo.
- Have investigated the role of astroglia in neurovascular coupling in the normal and epileptic brain.
- Characterized inflammation-related deregulation of astroglia-neuron signaling in epilepsy.
- Investigated neuron-astroglia signaling in living human brain tissue.

Links/Social Media Feed
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