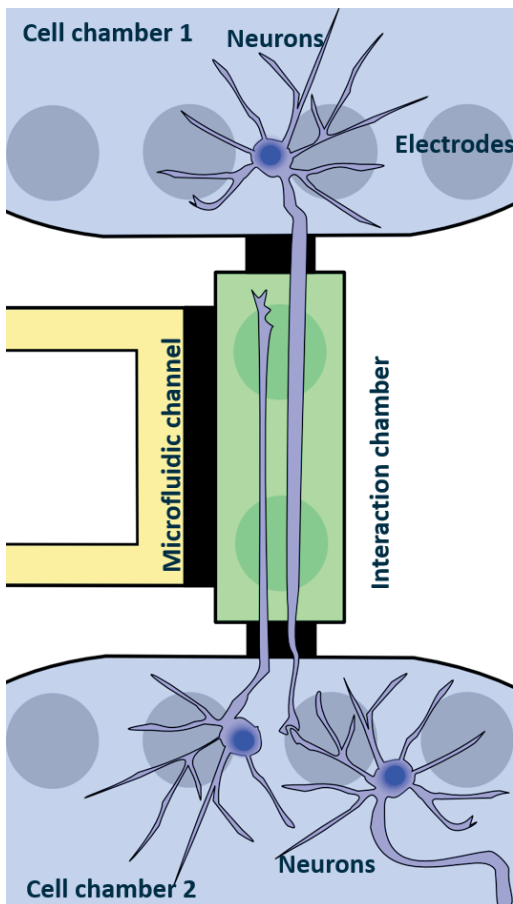


# *In vitro* Neurotest platform

## - Single tool for multiple applications



Patent pending EP 14821235.0  
US 15/104,682

### Multiple level evaluation in neurotoxicity

- Proliferation
- Apoptosis
- Differentiation/migration
- Growth/synaptogenesis
- Functional network analysis

### Myelination

- Model process of myelination, de- and remyelination
- Study myelination using human and rodent cells
- Modeling demyelination diseases using hiPSCs
- Testing and developing drugs

### Axonal studies

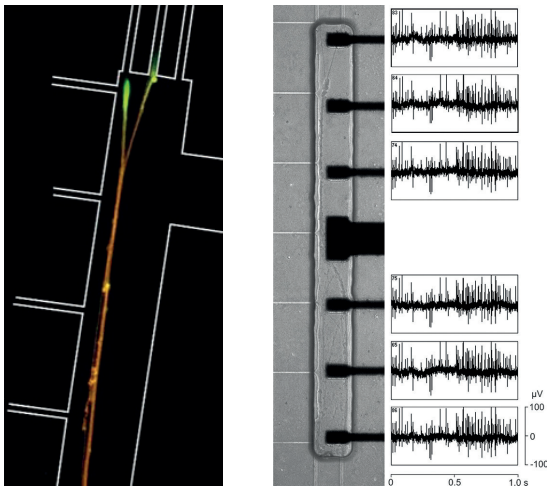
- Axonal growth/degeneration
- Enhanced regeneration
- Modeling diseases with axonal injury

### Structural compartments for cell interactions

- Physical control over each cell population
- Microfluidics for targeted substance exposure to separate compartments

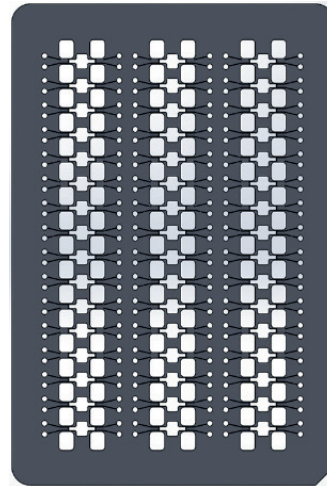
## Multiple evaluation methods for cellular processes

- Compatible with conventional imaging techniques such as microscopy, time-lapse imaging, immunocytochemistry, etc.
- Integrated microelectrode array: functional verification of myelination, etc.



## Scalability up to 96 well plate format

- Integration of microelectrode array supports the design to 24 and 48 well formats
- 96 well plate format option in the future



## Advantages

- Suitable for co-culture studies in various neuronal applications
- Control over cell growth and cell interactions
- Faster iterations for research, neurotoxicity screening and drug development
- Suitable for human and rodent cells
- Integrated microfluidics for targeted substance exposure to desired areas
- Integrated microelectrode array technology for functional analysis
- Option for customized platform production
- Scalability to HTP

## Compatible with multiple cell types

- HPSC derived neurons
- HPSC derived glial cells
- Rat embryonic and postnatal cortical neurons
- Rat DRG neurons
- Rat postnatal oligodendrocytes
- Human MSCs and lymphocytes
- etc.

**Further details:**

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