

SELECTED POSTERS

078: Evaluating the Use of Microelectrode Array Technology and Cell-Based Neuronal Culture Models for Proconvulsant Risk Assessment: Progress from the HESI NeuTox Consortium. *D.C. Millard, et al*

079: Trial to Detect Significant Metrics for Drug-Induced Seizure Liability Using Microelectrode Arrays Data Analysis and Primary Rodent Neurons: from Multi-Site Pilot Study of the HESI NeuTox Consortium in Collaboration with CSAHi and iNCENS
N. Miyamoto, et al

Oral Communications Session 3: Recent Progress in Neurological Safety Assessments (14:30-14:45, Oct 2)

080: Characterization of Neural Networks of Human Induced Pluripotent Stem Cell-Derived Neurons-Report from iPS Non-Clinical Experiments for Nervous System (iNCENS) Project in Collaboration with CSAHi and HESI NeuTox. *K.Takahashi, K. Sato, et al*

Oral Communications Session 3: Recent Progress in Neurological Safety Assessments (14:45-15:00, Oct 2)

083: A High-Throughput Acute Brain Slice Micro-Electrode Array Assay for Toxicology Screening *M.Trujillo, et al*

190: CSAHi Study: Detection of Drug-Induced Seizure-like Activities of Three Convulsants at Five Facilities Using Micro-Electrode Arrays in Combination with Human iPS Cell-Derived Neurons *Y. Ishibashi, et al*

191: Detection of Drug-Induced Seizure-like Activities Using MEA System in Cultured Human iPSC-Derived Neurons: Report from Multi-Site Pilot Study of the HESI NeuTox Committee in Collaboration with CSAHi and iNCENS *A. Odawara, et al*

192: Deep Learning on MEA Data Obtained from Human iPS Cell-Derived Neurons for Predicting Seizure Risk of New Drugs
N. Matsuda, et al

SPONSORED PRESENTATION

Monday, October 1, 2018**18:00-19:00, Rm: Coolidge****High-Sensitivity Microelectrode Array Assay for Neurotox Screening**

The MED64 is a high-fidelity microelectrode array (MEA) platform that is engineered for sensitivity to detect a broad range of signals. In the presentation, researchers will demonstrate the power of high sensitivity MEAs for measuring epileptiform activity from stem cell-derived neurons and acute mouse hippocampal slices.

Toxicity assessment using high-sensitivity micro-electrode arrays in combination with human iPS cell-derived neurons

Ikuro Suzuki, PhD, Tohoku Institute of Technology

A High-Throughput Acute Brain Slice Micro-Electrode Array Assay for Toxicology Screening

Michael Trujillo, PhD. Alpha MED Scientific Inc.