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WORKSHOP PRESENTATION

SEPT 20, 2016
6PM-7PM | MEETING ROOM 7

Impact of Electrical Pacing on Cardiomyocyte Contractility and its Implications for Safety Assessment

Speaker: Xiaoyu Zhang, Ph.D.
Research Scientist at ACEA Biosciences, Inc.

Pacing of Human iPSC Cardiomyocytes as a Useful Tool in Cardiovascular Safety Assessment

Speaker: Hong Shi, M.D.
Senior Research Scientist at Bristol-Myers Squibb
### Abstracts citing xCELLigence® RTCA Cardio and CardioECR technology

**Monday, September 19 | 14:00–15:15 | Ballroom C**

**Oral Communications: Assessment of Positive and Negative Inotropic Compounds Using an Impedance-Based System with Human iPSC Derived Cardiomyocytes under Controlled Pacing Conditions.** Xiaoyu Zhang, et al.  
(Poster #117)

**Tuesday, September 20 | 14:00–15:15 | Ballroom C**

**Oral Communications: Comparison of Heart Rate Correction Formulas for Accurate Detection of Repolarization Changes in Spontaneous Beating hiPSC-Cardiomyocytes.** Hong Shi, et al. (Poster #245)

**Monday-Tuesday, September 19-20 | Exhibition Hall B**

**Poster #069: Lead Identification Strategy in Astellas for Cardiovascular Liabilities Using the xCELLigence System and the Langendorff-perfused Guinea Pig Heart Assay.** Yudai Watanabe1, Katsuyuki Kazusa1, Keisuke Nagata1, Yumiko Sato2, Chikara Fujimori2, Takafumi Shirakawa1, Akinobu Okada1  
Astellas Pharma Inc., Ibaraki, Japan, 2Astellas Research Technologies Co., Ltd., Ibaraki, Japan

**Poster #111: Assessing Cardiotoxicity In Vitro: A Comparison of Complexity.** Sonia Roberts, Cristina Bertinetti-Lapatki, Liudmila Polonchuk, Andrea Greiter-Wilke  
Roche Pharmaceutical Research and Early Development, Roche Innovation Center Basel, Basel, Switzerland

**Poster #112: Characterisation of Novel Molecular Mechanisms Involved in Anthracycline-Induced Cardiotoxicity.**  
Kimberly Rockley, Jason Gill  
Durham University, Stockton-on-Tees, UK

**Poster #117: Assessment of Positive and Negative Inotropic Compounds Using an Impedance-based System with human iPSC-Derived Cardiomyocytes under Controlled Pacing Conditions.** Xiaoyu Zhang, Yama Abassi  
ACEA Biosciences, San Diego, CA, USA

**Poster #149: Impedance-Based Assessment of Preclinical Cardiac Structural Toxicity Using Human iPSC-Derived Cardiomyocytes and its Correlation to In Vivo (dog) Exposures.** Bryan Koci1, Greg Luerman3, Anika Due nobostell2, Ralf Kettenhofen2, Heribert Bohlen2, Luke Coyle1, Brian Knight1, Warren Ku1, Walt Volberg1, Joseph Woska1, Martha Brown1  
Boehringer-Ingelheim, Ridgefield, CT, USA, 2Axiogenesis AG, Cologne, Germany, 3Axiogenesis Inc, Plymouth Meeting, PA, USA

**Poster #161: Assessment of Electrophysiology, Contractility, and Viability Effects of Three UCB Compounds on Human Induced Pluripotent Stem Cell-Derived (hiPSC) Cardiomyocytes Using the Real Time Cell Analyzer (RTCA) CardioECR Platform.** Annie Delaunois1, Tessa de Korte2, Maria Vlaming2, Fleur Stevenhagen2, Stefan Braam2, Jean-Pierre Valentin1  
UCB Biopharma SPRL, Braine-l’Alleud, Belgium, 2Pluriomics BV, Leiden, The Netherlands

**Poster #228: Integrated In Vitro Cardiac Safety Assessment of Hepatitis-C Virus Nucleotide Inhibitor (HCV-NI) Drug Interaction with Amiodarone: Translatability to Clinic.** Haoyu Zeng, Spencer Dech, Bharathi Balasubramanian, Jeffrey Travis, John Imredy, Pierre Morissette, Christopher Regan, Armando Lagrutta, Frederick Sannajust  
Merck Research Laboratories, Safety Assessment and Laboratory Animal Resources, Safety & Exploratory Pharmacology Dept., West Point, PA, USA

**Poster #230: Maturation of Human iPSC-cardiomyocytes in Long-term Culture for Cardiotoxicity Testing.** Liang Guo1, Michael Furniss1, Jodie Mussio1, John Hamre1, Sandy Eldridge2, Ralph Parchment1, Myrtle Davis2  
Laboratory of Investigative Toxicology, Frederick National Laboratory for Cancer Research/Leidos Biomedical Research, Inc., Frederick, MD, USA, 2Division of Cancer Treatment and Diagnosis, National Cancer Institute, Bethesda, MD, USA

**Poster #243: Toward a Better Understanding of the Impedance Signal As an Indirect Measurement of Contractility in iCells/iPSC-Derived Cardiomyocytes.** Maria I Roman, John Imredy, Edward Lis, Armando Lagrutta, Frederick Sannajust  
Merck Research Laboratories, West Point, PA, USA

**Poster #245: Comparison of Heart Rate Correction Formulas for Accurate Detection of Repolarization Changes in Spontaneous Beating hiPSC-Cardiomyocytes.** Hong Shi, MinXue Huang, Paul Levesque  
Bristol-Myers Squibb, Princeton, NJ, USA