FDA PUBLIC WORKSHOP: Leveraging Human-Relevant Cardiomyocytes in Nonclinical Studies to Provide Mechanistic Insights into Cardiovascular Safety Liabilities

March 29, 2019 Great Room, FDA Headquarters, White Oak, Silver Spring MD

Time	Tentative Topic and Duration	Speakers
8:30 - 8:35	Welcome	Xi Yang (FDA)
8:35 - 8:55	Overview of Gaps and Challenges	Gary Gintant (Abbvie)
8:55 - 9:15	A Novel Framework for Human-Relevant and Failure Mode-focused Assessment of Cardiovascular Safety in Nonclinical Drug Development	Brian Berridge (NIH)
9:15 - 9:35	Morphologies, Motions and Markers of In Vitro Cardiovascular Screening Assessments	Blake Anson (Stemonix)
9:35 - 9:55	Engineered Heart Tissue: Analysis of Contractile Force in hiPSC-CM	Arne Hansen (Univ. Med. Cntr Hamburg-Eppendorf)
9:55 - 10:10	Break (15 min)	
10:10 - 10:30	Use of Cardiomyocyte Models for the Detection of Cardiovascular Liabilities: the Opportunity and Future Potential	Amy Pointon (AstraZeneca)
10:30 - 10:50	Using Electrical Field Stimulation for Maturation of hiPSC Cardiomyocytes, Assessment of Inotropic Compounds and Cardiac Safety Assessment	Yama Abassi (ACEA)
10:50 - 11:10	Micropatterned Human iPSC-derived Cardiomyocytes	Alexandre Ribeiro (FDA)
11:10 - 11:30	Using Adult Human Primary Cardiomyocyte Models for Drug-induced Cardiotoxicity Detection	Najah Abi Gerges (Anabios)
11:30 - 11:50	PANEL DISCUSSION WITH AUDIENCE	Key Speakers
11:50 - 13:00	Lunch Break (70 min)	
13:00 - 13:20	Myocardial Biology of Kinase Inhibitor Cardiotoxicity: Predictable On-target and Surprising Off-target Effects	Brian Jensen (UNC Div Cardiology)
13:20 - 13:40	Secondary Pharmacology and Off-target Profiling as a Way to Provide Mechanistic Insights into Drug-induced Cardiovascular Safety Liabilities	Jean-Pierre Valentin (UCB)
13:40 - 14:00	Drug Development Tools (DDTs) – Regulatory Perspective	Christopher Leptak (FDA)
14:00 - 14:20	Chronic/Delayed Drug-Induced Cardiac Toxicity and Cardiac Biomarkers in hiPSC-CMs	Hua Rong Lu (Janssen)
14:20 - 14:30	Break (10 min)	
14:30 - 14:50	Development of In Vitro Cardiotoxicity Assessment for Oncology Drugs	Yasunari Kanda (NIHS)
14:50 - 15:10	The Pharmacogenomic Basis of Oncology Drug-Induced Cardiovascular Toxicity	Paul Burridge (Northwestern Univ)
15:10 - 15:30	Integrated Response Markers	William B. Mattes (FDA)
15:30 - 16:30	PANEL DISCUSSION WITH AUDIENCE / Meeting Wrap-Up	Norman Stockbridge (FDA) & Key Speakers
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