

## Plenary Session 5 (HF)

March  
15  
PM

Room 2 (Pacifico Yokohama, Conference Center 1F Main Hall) 13:50–15:20

### **New Advance in Cardiac Regenerative Medicine -Basic Research and Clinical Trial-**

Chairpersons :

Hiroaki Matsubara (Department of Cardiovascular Medicine, Kyoto Prefectural University School of Medicine, Kyoto)

Benoit G. Bruneau (Gladstone Institute of Cardiovascular Disease, UCSF, USA)

**State-of-the-Art :**

**Epigenetic Regulation of Cardiac Lineage Development**

Benoit G. Bruneau (Gladstone Institute of Cardiovascular Disease, UCSF, USA)

**1. Direct Conversion of Fibroblasts into Cardiomyocyte-like Cells by Defined Factors**

Masaki Ieda (Department of Clinical and Molecular Cardiovascular Research, Department of Cardiology, Keio University School of Medicine, Tokyo)

**2. Human ES-Cell-Derived Cardiomyocytes Electrically Couple and Suppress Arrhythmias in Injured Hearts**

Yuji Shiba (Department of Cardiovascular Medicine, Shinshu University, Matsumoto)

**3. Integrative Approaches for Cardiac Regeneration with ES & iPS Cells, Small Molecules, and Cell Sheet Technology**

Jun Yamashita (Laboratory of Stem Cell Differentiation, Center for iPS Cell Research and Application, Kyoto University, Kyoto)

**4. The Third-Generation Cardiac Stem Cells Defined by Asymmetric Chromatid Segregation as Well as "Mircrine" Mechanism Contribute to Myocardial Regeneration**

Toru Hosoda (Tokai University Institute of Innovative Science and Technology, Isehara)

**5. Hybrid Cardiac Stem Cell Therapy: The ALCADIA (AutoLogous human cARDiac-Derived stem cell to treat Ischemic cArdiomyopathy) Trial**

Naofumi Takehara (The Department of Cardiovascular Regeneration and Innovation, Asahikawa Medical University, Asahikawa)

**6. First-in-Man Clinical Study of Cell Sheet-based Myocardial Regeneration Therapy**

Shigeru Miyagawa (Department of Cardiovascular Surgery, Osaka University Graduate School of Medicine, Osaka)