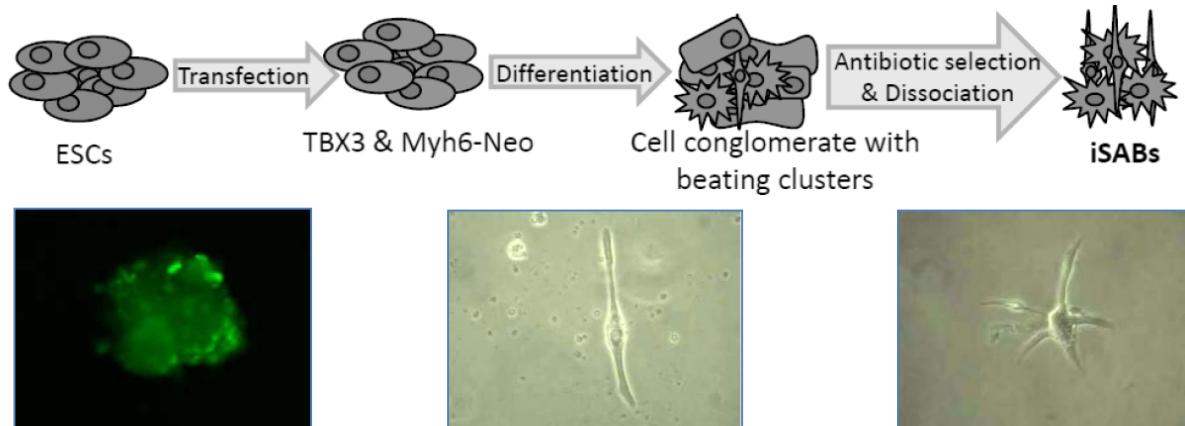




“Cardiac Pacemaker Cells from pluripotent Stem Cells”

Prof. Dr. Robert David



Reference and Translation Center for Cardiac Stem Cell Therapy,
University of Rostock,
Rostock, Germany

Date: 19th June 2018 (Tuesday)
Time: 05:30 p.m.
Venue: Research Building Department
„Life, Light & Matter“ of the Interdisciplinary Faculty
of the University of Rostock,
seminar room 110, A.- Einstein-Str. 25, 18059 Rostock

Abstract

Adult cardiomyocytes (CMs) possess a highly restricted intrinsic regenerative potential - a major barrier to the effective treatment of a range of chronic degenerative cardiac disorders characterized by cellular loss and/or irreversible dysfunction and which underlies the majority of deaths in developed countries. Both stem cell programming and direct cell reprogramming hold promise as novel, potentially curative approaches to address this therapeutic challenge. The advent of induced pluripotent stem cells (iPSCs) has introduced a second pluripotent stem cell source besides embryonic stem cells (ESCs), enabling even autologous cardiomyocyte production. In addition, the recent achievement of directly reprogramming somatic cells into cardiomyocytes is likely to become of great importance. In either case, different clinical scenarios will require the generation of highly pure, specific cardiac cellular-subtypes. In my talk, I will discuss these topics as related to the cardiovascular stem cell and programming field, including a focus on the emergent field of pacemaker cell generation for the development of biological pacemakers and in vitro drug testing.

Speaker's Biography

Since 2012 Robert David is a full professor for Regenerative Medicine at the Universität Rostock. He studied Biology at the TU München and subsequently received his PhD at the MPI for Developmental Biology in Tübingen. In 2010 he finalized his habilitation at the LMU München where he became Privatdozent. His scientific work is focussed on cell programming towards cardiomyocyte subtypes with a current focus on cardiac pacemaker cells.

All interested are welcome

Team Viewer Link <https://go.teamviewer.com/v7/m08013120>

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