



## **Human Heart Microtissue Production Workshop**

Participants would be introduced to the principles of pluripotent stem cell differentiation into different lineages and cardiac mesodermal lineages and cardiac muscle cells. In addition, the method for heart micro tissue production by coculture of different cardiac tissue cells will be taught.

In this workshop you will learn:

- Principles of PSCs differentiation into different lineages
- Differentiation of PSCs into mesodermal and cardiac mesodermal lineages and cardiac muscle cells
- Types of characterization of PSCs derived cardiac muscle cells
- Investigating the onset of beating and increase in beating rate during differentiation
- Immunofluorescent staining as a quality control for differentiation
- Principles of cardiac tissue formation
- Coculture of different cardiac tissue cells and cardiac microtissue production

This workshop is suitable for graduates and students of all academic levels in biology, paramedical, and medical fields. A previous knowledge on principles for human pluripotent stem cell cultivation is required.