

Bio Assembler for 3D Cellular System Innovation

Tatsuo Arai - arai@sys.es.osaka-u.ac.jp

Abstract

The proposal intends a full day workshop in order to discuss a new and innovative methodology intended for creating 3D cellular systems such as functional tissue in vitro environments, in which active functional cells selected from a living organism are used to create the 3D cellular system. The workshop consists of invited speakers from the world who are active in the cutting edge of the field. The topics cover high speed measurements and controls of single and/or multiple cells based on micro & nano robotics, high speed assembly of 3D cellular system, and analysis and evaluation of active functional cellular systems.