

### 3D-ORGAN REGENERATION

#### Organizers

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#### Theme

Stem cell science has been attracting great attentions and strongly stimulating regenerative medicine researches. It brought us the hope of functional cell sources and various differentiation media or protocols have been successfully established. The cell suspension injections may be effective for limited cases such as platelet transplantation. Regenerations of complex three dimensional organs/tissues is the final goal of the regenerative medicine but faces with many difficulties. To regenerate organs, it is necessary to develop revolutionary methods for assembling differentiated cells into native-structured and functional organs/tissues. In this symposium, organ/tissue regeneration using cells, scaffolds, and various factors both in vitro and vivo will be discussed.

#### Invited Speakers

##### **Acellular biological scaffold prepared by high pressure engineering (small diameter long blood vessel)**

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##### **Analysis and control of bone tissue anisotropy**

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