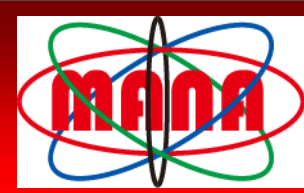


# The 235<sup>th</sup> MANA Special Seminar



## Biomaterials with bioactive composition and nano-structure for tissue regeneration

Chair: Dr. Guoping Chen (MANA PI)



### Prof. Jiang Chang

*(Biomaterials and Tissue Engineering Research Center,  
Shanghai Institute of Ceramics,  
Chinese Academy of Sciences, China)*

It is known that both materials chemistry and microstructure of the biomaterials play key roles in cell-materials interaction and may significantly affect cell behavior and tissue regeneration. One example is the silicate based bioactive glasses and ceramics. Studies have shown that the dissolution products of these bioactive materials stimulated bone cell proliferation, differentiation, and gene expression related to bone tissue regeneration, and this stimulatory effect may be considered as a new criterion for evaluation of material bioactivity. Fabrication of biomaterials with controllable micro- and nano-structure is of great importance for tissue regeneration and tissue engineering applications. In this aspect, we have developed a novel electrospinning technique to prepare nano-fibrous scaffolds, which may be used for tissue engineering applications.

**Namiki  
site**

**Venue: Seminar Room #431, 4F, MANA Bldg.,**

**Date: December 1<sup>st</sup> (THU) Time: 15:30-16:15**

Contact: International Center for Materials Nanoarchitectonics (MANA), Nakata (ex. 8806)