

Frontiers in Biomedical Engineering 2008

Workshop sponsored by Tsinghua-Johns Hopkins Joint Center for BME Research

清华-约翰霍普金斯生物医学工程联合学术年会

2008 年 10 月 14-15 日 清华大学 医学科学楼 B323

Invited Lectures

Neural Engineering Oct.14 (Tuesday) 8:30-12:00am

- Neuroengineering: from Micro to Mind** Prof. Nitish Thakor (Johns Hopkins)
- Optimization of synaptic networks for learning and memory** Prof. Guosong Liu (Tsinghua)
- Neural computation by hierarchical networks** Prof. Kechen Zhang (Johns Hopkins)
- Oscillatory EEG based brain-computer interface** Prof. Shangkai Gao (Tsinghua)
- Neural mechanisms of haptic size and shape perception** Prof. Steven Hsiao (Johns Hopkins)
- Implantable electrical acupuncture stimulation** Prof. Luming Li (Tsinghua)

Biomedical Imaging Oct.14 (Tuesday) 2:00-5:00pm

- Interventional MRI** Prof. Elliot McVeigh (Johns Hopkins)
- In vivo MRI imaging of neural connectivity** Dr. Chunlei Liu (Stanford University)
- Progress on fluorescence molecular tomography** Prof. Jing Bai (Tsinghua)
- MRI-guided therapy technology and its development** Dr. Lei Zhao (XinAoMDT Co.)
- Computational functional anatomy** Dr. Anqi Qiu (National University of Singapore,)

Cell and Tissue Engineering Oct.15 (Wednesday) 9:00am-12:00am

- Predictive Models of the Heart in Health and Disease** Prof. Natalia Trayanova (Johns Hopkins)
- Biology and bioengineering of neural stem cells** Prof. Hongjun Song (Johns Hopkins)
- Progress of biochip research and applications** Prof. Jing Cheng (Tsinghua)
- Controlling cell function with microfabricated devices** Prof. Andre Levchenko (Johns Hopkins)
- Force generation by biological nanomachines** Prof. Sean Sun (Johns Hopkins)

Cell and Tissue Engineering Oct.15 (Wednesday) 2:00am-3:30pm

- Development and evaluation of methods for treating spinal cord injury** Prof. Lawrence Schramm (JHU)
- Tissue Engineered Bone Based on Mineralized Collagen** Prof. Fuzhai Cui (Tsinghua)
- Nano-Cryosurgery: Basic Features and Challenges** Prof. Jing Liu (Tsinghua)

主办：清华-约翰霍普金斯生物医学工程联合研究中心

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