

(March 6, 2013)

The 4th CREST-SBM International Symposium

“Collaboration between Mathematical Science and Clinical Medicine”

March 13th (Wednesday)

10:00-10:15 Opening Addresses

Yasumasa Nishiura (Tohoku University, Head of JST Mathematics Program)

Toshitake Kohno (The University of Tokyo, Program coordinator of FMSP)

10:15-10:40 **Hiroshi Suito** (Okayama University/JST, Japan)

[Overview of the CREST project](#)

10:40-11:40 **Olivier Pironneau** (Université Pierre et Marie Curie, France)

(Keynote Lecture) [Numerical Algorithms for Hemodynamics](#)

11:40-13:30 *Lunch*

13:30-14:15 **Jun-ichi Okada** (The University of Tokyo, Japan)

[Patient Specific Simulation using *UT-Heart*](#)

14:15-15:00 **Ryo Torii** (University College London, UK)

[The application of Computational Biomechanics in Clinical Science - Aortic Root in Health, Disease and Post-operation](#)

15:00-15:45 **Irène Vignon-Clementel** (INRIA, France)

[Multiscale Blood and Airflow Simulations: Data and Numerical Challenges](#)

15:45-16:00 *Coffee break*

16:00-16:45 **Yoshitaka Masutani** (The University of Tokyo Hospital, Japan)

[On Detection of Anatomical Landmarks in CT Images: Toward Computational Understanding of Medical Images](#)

16:45-17:30 **Takuya Ueda** (St. Luke's International Hospital/JST, Japan)

[Mathematical Approach in Medical Imaging](#)

18:00-20:00 *Banquet*

March 14th (Thursday)

- 10:00-10:45 **Pekka Neittaanmäki** (University of Jyväskylä, Finland)
(**Keynote Lecture**) [Sensing Skin - Hyperspectral Imaging Based Application to Delineate Skin Tumors](#)
- 10:45-11:30 **Yannick Deleuze** (National Taiwan University, Taiwan)
[Modeling and Simulating in Acupuncture](#)
- 11:30-13:30 *Lunch*
- 13:30-14:15 **Evangelos Makris** (National Center of Scientific Research, Greece)
[Particle Transport and Deposition under High Frequency Oscillatory Ventilation and Normal Breathing in a Physiologically Realistic Bifurcation](#)
- 14:15-15:00 **Hirokazu Takagi** (Waseda University/JST, Japan)
[Prestress Prediction Technique for Arterial FSI Computations](#)
- 15:00-15:15 *Coffee break*
- 15:15-16:00 **Kenji Takizawa** and **Shohei Asada** (Waseda University/JST, Japan)
[Space--Time Arterial FSI and Fluid Simulation Techniques](#)
- 16:00-16:15 *Closing*