

The 8th MEI³ Center International Symposium

Medical Engineering Innovation for Hybrid Organs of the Future

Place ▶ **Osaka University Suita Campus**
Center of Medical Innovation and
Translational Research Building 1F Multimedia Hall

2017
**March
1-2**
[Entry Fee]
Free

Mar.1
(Wed)

9:20-9:30

Opening remarks

Yasushi Sakata
(Director of MEI³ Center, Grad. Sch. Med., Osaka Univ.)

【Session I】

Chair : Masayuki Hirata (MEI³ Center, Osaka Univ.)

9:30-10:20

Designing visual cortical prosthesis based upon physiological experiments

Tetsuya Yagi (Grad. Sch. Eng., Osaka Univ.)

10:20-11:10

Liquid crystal polymer-based neural prostheses

Sung June Kim (Dept. Ele. & Comp. Eng., Seoul National Univ.)

11:10-12:00

Toward a clinical trial of retinal prosthesis in Japan

Takashi Fujikado (Grad. Sch. Med., Osaka Univ.)

12:00-13:30

Lunch break

【Session II】

Chair : Toshiki Yoshimine (MEI³ Center, Osaka Univ.)

13:30-14:20

Implantable brain machine interface

Masayuki Hirata (MEI³ Center, Osaka Univ.)

14:20-15:10

BrainGate: developing intracortical brain computer interface technology

Marco Vilela (Sch. Eng., Brown Univ.)

15:10-15:30

Break

【Special Lectures】

Chair : Takashi Fujikado (Grad. Sch. Med., Osaka Univ.)

15:30-16:30

Medical Bionics: from cochlear implants to bioelectronics

Robert K. Shepherd (Medical Bionics, University of Melbourne)

16:30-17:30

iPS cell derived retinal tissue improved vision in end stage retinal degeneration

Michiko Mandai (RIKEN, Center for Developmental Biology)

18:00-

Social gathering

Mar.2
(Thu)

【Session III】

Chair : Tetsuya Yagi (Grad. Sch. Eng., Osaka Univ.)

9:00-9:50

Implantable optoelectronic devices for controlling and measuring biological functions

Jun Ohta (Grad. Sch. Mat. Sci., Nara Inst. Sci & Tech.)

9:50-10:40

Optogenetics towards human neuromodulation

Fumiaki Yoshida (Fac. Med. Sci., Kyushu Univ.)

10:40-12:20

Poster presentation & discussion

12:20-12:25

Closing remarks

Tetsuya Yagi (Grad. Sch. Eng., Osaka Univ.)

主催 : 大阪大学国際医工情報センター/Global Center for Medical Engineering and informatics, Osaka University
共催 : In silico Human研究会

【お問い合わせ/contact】

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【申込方法/entry】

mei-sympo@mei.osaka-u.ac.jpに
①お名前 (日、英)、②ご勤務先 (日、英)
③参加日、④Social gatheringへのご出欠を
お知らせください。【参加費無料】



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