



UK-Japan Workshop on Biosensing Technologies for Innovative Healthcare

Sponsored by British Embassy, Tokyo
with support from
Tokyo university of agriculture and technology

Workshop programme

Monday 1 December

09:30-10:00 **Registration + Coffee**

(Chair: Dr Bachmann)

10:00-10:05 **Opening remarks by Ms Beth Hogben, the British Embassy Tokyo & Prof Tadashi Matsunaga, President, Tokyo University of Agriculture and Technology**

10:05-10:35 **“Biomolecular engineering as the biosensing technology”**
Prof Koji Sode, Tokyo University of Agriculture and Technology

10:35-11:05 **“Sensor technologies for mobile healthcare”**
Prof Christopher Lowe, University of Cambridge

11:05-11:35 **“Bioimaging with integrated electrochemical devices”**
Prof Tomokazu Matsue, Tohoku University

11:35-12:05 **“Size matters: Engineering biosensors at the micro-, nano- and molecular scales”**
Prof Anthony Cass, Imperial College London

12:05-13:00 Lunch

(Chair: Prof Sode)

13:00-13:30 **“Insulin pump therapy and continuous glucose monitoring for the**





improved management of diabetes”

Prof John Pickup, King's College London

13:30-14:00 “Nanostructures and photonics based biosensors for medical diagnosis and cellular analyses”

Prof Eiichi Tamiya, Osaka University

14:00-14:30 “The development and commercialization of magnetic detection technology for biosensor applications”

Prof Richard Luxton, University of the West of England

14:30-15:00 “Molecularly imprinted polymers as biomimetic sensing materials”

Prof Toshifumi Takeuchi, Kobe University

15:00-15:20 Coffee break

(Chair: Prof Tamiya)

15:20-15:50 “Nanomaterials and microdevices for electrochemical and optical biosensors”

Prof Osamu Niwa, National Institute of Advanced Industrial Science and Technology

15:50-16:20 “Biosensors for point of care testing and precision medicine in infectious diseases”

Dr Till Bachmann, University of Edinburgh

16:20-16:50 “Cavitas sensors and smell camera for human biosensing”

Prof Kohji Mitsubayashi, Tokyo Medical and Dental University_

16:50-17:30 Wrap up discussion

17:40- Networking reception at **Embassy**

18:30 - **Banquet at Hotel Monterey**





Tuesday 2 December

(Chair: Prof Sode)

10:00-10:20 “**Biosensing of glycated proteins for healthcare**”

Dr Akane Sakaguchi-Mikami, Tokyo University of Technology

10:20-10:40 “**Non-invasive biosensors for stress monitoring**”

Prof Masaki Yamaguchi, Iwate University

10:40-11:00 “**Nanoneedle technology for biosensing**”

Dr Chikashi Nakamura

11:00-11:20 “***In silico* maturation: improvement of aptamer functions for biosensing**”

Prof Kazunori Ikebukuro, Tokyo University of Agriculture and Technology

11:20-11:50 “**Unlocking biosensing knowledge for business innovation**”

Dr. Liqun Yang, The Knowledge Transfer Network

12:00-13:00 Lunch

(Chair: Dr Bachmann)

13:00-13:20 “**Inkjet printed microfluidic paper-based analytical devices (μ PADs)**”

Prof Daniel Citterio, Keio University

13:20-13:40 “**Electrochemical detection techniques to provide a portable and highly sensitive endotoxin sensor**”

Dr Kumi Y-Inoue, Tohoku University

13:40-14:00 “**Paper based biosensing technology**”

Dr Isao Shitanda, Tokyo University of Science

14:00-14:20 “**Single cell biosensing technology for circulating tumour cell analysis**”

Dr Tomoko Yoshino, Tokyo University of Agriculture and Technology

14:20-14:40 “**Magnetic biosensing based on superparamagnetic nanoparticles**”





Prof Yoshitaka Kitamoto, Tokyo Institute of Technology

14:40-15:10 **Round Table discussion: Summary of finding and way forward**

15:10-15:15 **Closing remark**

Prof Tadashi Matsunaga, President, Tokyo University of Agriculture and Technology

15:15- **Group photo**

Venue; British Embassy Tokyo

〒102-8381

1- Ichiban-cho, Chiyoda-ku, Tokyo, Japan





Workshop programme

Wednesday 3 December

Open seminar

15:30 door open

16:00-16:10 **Opening remarks by British Consulate – General Oosaka**

16:10- Dr. Liqun Yang, The Knowledge Transfer Network

16:25- Emeritus Prof Christopher Lowe, University of Cambridge

16:40- Prof Anthony Cass, Imperial College London

16:55- Coffee break

17:05- Prof Richard Luxton, University of the West of England

17:20- Dr Till Bachmann, University of Edinburgh

17:35- Prof Koji Sode, Tokyo University of Agriculture and Technology

17:50- Discussion

18:10-19:00 Networking Café

Venue; ARKRAY, Inc. Kyoto Laboratory

〒602-0008

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