International Symposium on Micro/Nano Aspects of Biomaterials, The Satellite Symposium of the 3rd International Symposium on Surface and Interface of Biomaterials (SIB2011) and The 5th Annual Meeting of the Nano Biomedical Society

MEETING LOCATION

http://www.kyoto-terrsa.or.jp/floormap.html

Kyoto TERRASA (Kyoto Citizen's Amenity Plaza: Address: Shinmachi Kujo Minami-ku, Kyoto) is located close to Kyoto Station. 15 minutes walk straight to the south from Japan Railway (JR) and Shinkansen Kyoto Station. 5 min by subway (Karasuma Line) from Kyoto Station to Kujo Station, and 5 min walk. 5min walk from To-ji Station on the Kintetsu Line.

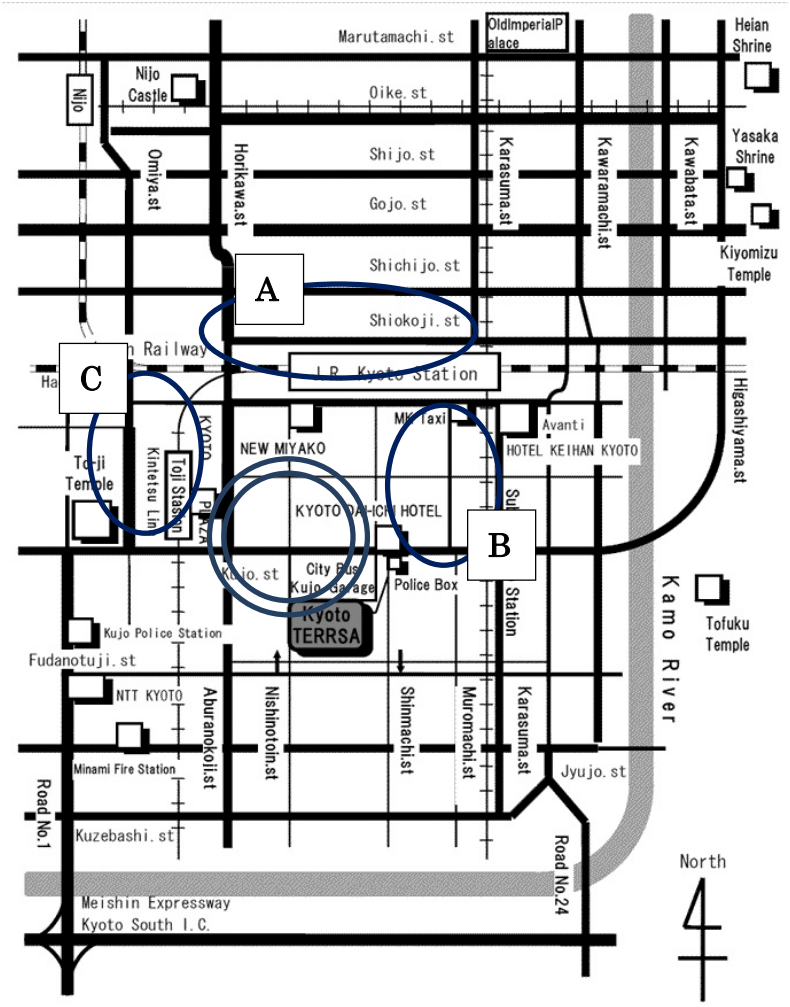
REGISTRATION DESK

Kyoto TERRASA

East Building 2nd Floor

Seminar Room No. 3:

Telephone number: 81+75-692-3400



REGISTRATION TIME

Tuesday, 19 July: 9 a.m. – 16 p.m.

REGISTRATION FEE

In the case of SIB2011 registrant, 5,000 JPY
for others, 10,000 JPY

SOCIAL FUNCTION

The optional tour to Shimadzu Corp (Nishinokyo-Kuwabara-cho, Nakagyo-ku, Kyoto 604-8511, Japan)
July 20 (Wednesday) has been determined in collaboration with Shimadzu Corporation with optional free tour.
As a special project will be conducted free tour of Shimadzu Corp. in Kyoto city. A half-day scheduled for the morning of July 20. Please join if you are interested in this tour. You can apply to join this free tour on July 19.

ORGANIZING COMMITTEE and PROGRAM COMMITTEE

Kenzo ASAOKA	The University of Tokushima
Koichi IMAI	Osaka Dental University

SCIENTIFIC PROGRAM

Opening Remarks: Kenzo Asaoka **9:55-10:00**

SESSION I **10:00-11:00**

Chair Person: Shokyu Gen (Kyoto University)

O-1 10:00-12

Preparation and characterization of dithranol loaded solid lipid nanoparticles to provide better dithranol-skin retention and enhanced storage stability for effective treatment of psoriasis

Gireesh Tripathi[1], B.K.Dubey[2] ([1]Oriental College of Pharmacy, [2]T.I.T. College of Pharmacy)

O-2 10:12-24

Novel phosphodiester CpG oligodeoxynucleotides with high stimulatory effects on human toll-like receptor 9

Wenjun Meng[1,2], Tomohiko Yamazaki[1,2], Nobutaka Hanagata[1,2,3] ([1]Hokkaido University, [2]International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), [3]Interdisciplinary Laboratory for Nanoscale Science and Technology, NIMS)

O-3 10:24-36

Imaging study of proteins interaction following the contact of living cell to artificial membrane

Ling Zhang[1,2], Yoshihisa Kaizuka[2], Nobutaka Hanagata[1,2,3] ([1]Hokkaido University, [2]International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), [3]Interdisciplinary Laboratory for Nanoscale Science and Technology, National Institute for Materials Science (NIMS))

O-4 10:36-48

C-terminal ligand binding analysis of human toll-like receptor 9

Suwarti[1,2], Tomohiko Yamazaki[1,2], Nobutaka Hanagata[1,2,3] ([1]Hokkaido University, [2]International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), [3]Interdisciplinary Laboratory for Nanoscale Science and Technology, NIMS)

O-5 10:48-11:00

Co-immobilization of chitosan and bone morphogenic protein-2 (BMP-2) on titanium surfaces to achieve osteoinductivity

Lu Xiong[1], Lin Hong[1], Qu Shuxin[1], Feng Bo, Weng Jie[1], Fumio Watari[2] ([1]Southwest Jiaotong University, [2]Hokkaido Univerity)

KEYNOTE ADDRESS **11:15-12:00**

Chair Person: Koichi Imai (Osaka Dental University)

The potential risk of silica nanoparticles

Jiao SUN (Shanghai Jiaotong University)

SESSION II **13:30-14:42**

Chair Person: Lu Xiong (Southwest Jiaotong University)

O-6 13:30-42

Molecular modeling of interactions between alginate chains and bivalent metal Ions: Computational and thermodynamic aspects

Wojciech Plazinski (Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences)

O-7 13:42-54

Solvent-free formation of hydroxyapatite coated biodegradable microspheres via nanoparticle-stabilized emulsion route

Masahiro Okada[1], S. Fujii[2], T. Nishimura[2], Y. Nakamura[2], S. Takeda[1], T. Furuzono[3] ([1]Osaka Dental University, [2]Osaka Institute of Technology, [3]Kinki University)

O-8 13:54-14:06

Identification of boron nitride nanosphere binding peptides

Huijie Zhang [1,2], Tomohiko Yamazaki[1,2], Chunyi Zhi[2], Nobutaka Hanagata[1,2,3] ([1]Hokkaido University, [2]International Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), [3]Interdisciplinary Laboratory for Nanoscale Science and Technology, NIMS)

O-9 14:06-18

Cartilage regeneration from mesenchymal stem cells by RWV bioreactor and tracking of quantum-dot labeled cell aggregates transplanted into osteochondral defects of rabbits.

Toshimasa Uemura[1], T. Yoshioka[2], M. Nishi[1], S. Kaul[1], R. Wadhwa[1], H. Mishima[2] ([1]AIST(National Institute of Advanced Industrial Science and Technology), [2]University of Tsukuba)

O-10 14:18-30

Study on calcium phosphate cement loaded with rhizoma drynaria

Shuxin Qu[1], Xiaoxin Jiang[1], Sunzhong Lin[1], Jie Weng[1] ([1]Southwest Jiaotong University)

O-11 14:30-42

Observation of hard tissue with confocal laser scanning microscopy

Tetsunari Nishikawa[1], K. Masuno[1], H. Kato[1], M. Kokubu[1], K. Tominaga[1], M. Wato[1], K. Imai[2], S. Takeda[2], T. Ono[3], N. Matsumoto[3], A. Tanaka[1] ([1]Department of Oral Pathology, [2]Department of Biomaterials, [3]Department of Orthodontics, Osaka Dental University)

KEYNOTE ADDRESS **15:00-15:45**

Chair Person: Kenzo Asaoka (The University of Tokushima)

Possibility of new biomaterials with ability of bone induction

Kikuji Yamashita (The University of Tokushima)

POSTER VIEWING **15:50-16:30**

P-1 **Water soluble silicon quantum dots as fluorescent probes for bio-applications**

Chinnathambi Shanmugavel[1], Venkata Krishnan[2], Katsuhiko Ariga[2] and Nobutaka Hanagata[1, 3] ([1]Biosystem and biomolecule control group, National Institute for Material Science, [2]World Premier International (WPI) Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), [3]Interdisciplinary Laboratory for Nanoscale Science and Technology, National Institute for Materials Science (NIMS))

P-2 **The biocompatibility and antibacterial properties of chitosan-hyaluronic acid -metal nanocomposites**

Hui-Hsuan Hsieh[1], Chih-Wei Chou[1] ([1]Department of Cosmeceutics, China Medical University)

P-3 **Effect of novel anti-cancer ABC drug-loaded nanoparticles on digestive tract cancer cell lines**

Chih-Wei Chou [1], Onon Batnyam [1,2] ([1]China Medical University, [2]Asia University)

P-4 **Cell culture on carbon nanotubes thin films**

Tsukasa Akasaka, Shigeaki Abe, Motohiro Uo, Fumio Watari (Hokkaido University)

P-5 **Co-culturing of bone marrow mesenchymal stem cells and endothelial cells by an RWV bioreactor**

Masanori Nishi, Rena Matsumoto, Jian Dong[1], Toshimasa Uemura (National Institute of Advanced Industrial Science and Technology, [1]Fudan University)

P-6 **In Vivo evaluation of crystallinely strontium substituted calcium phosphate cement**

Kazumitsu Sekine[1], Kenichi Hamada[1], Emi Takekawa[1], Kikuji Yamashita[1], Fumiaki Kawano[2], Kenzo Asaoka[1] ([1]Institute of health biosciences, University of Tokushima graduate school, [2]Tokushima Medical and Dental Hospital, University of Tokushima)

Closing Remarks: Koichi Imai **16.30-35**