



HOKKAIDO UNIVERSITY

Title	国際「ナノトキシコロジーアセスと微粒子・ナノチューブのバイオ環境応用」シンポジウム
Author(s)	亘理, 文夫
Relation	サステナビリティ・ウィーク2008 クロージングシンポジウム, 平成20年7月11日, 札幌市
Issue Date	2008-07-11
Doc URL	https://hdl.handle.net/2115/34522
Type	lecture
File Information	42-5.pdf



国際「ナノトキシコロジーアセスと 微粒子・ナノチューブのバイオ環境応用」 シンポジウム

Pamphlet

International Symposium on "Nanotoxicology Assessment and Biomedical, Environmental Application of Fine Particles and Nanotubes" (ISNT2008)

June 16-17, 2008
Conference Hall, Hokkaido University, Sapporo, Japan

<http://sw2008.jp/nano>

in conjunction with G8 Hokkaido Toyako Summit 2008 / Hokkaido University "Sustainability Weeks 2008"

Health and environments are the major problems confronted in the 21st century. Efforts have been extensively done for the development of nanotechnology to exploit the new functions. Nanotechnology has made the most important contributions to realize the quality of life (QOL) in recent years. Drug Delivery System (DDS) is the typical example of biomedical applications of nanoparticles. Meanwhile the assessment of nanotechnology is the increasing concern. It may bring unexpectedly the hazard for health and environments, since both outcomes of profit and demerit would be expected by the enhancement effects of chemical reactivity due to nanosizing.

The Symposium (ISNT2008) intends to gather and discuss both biomedical application and risk assessment on the same

stage and occasion. It is held during Hokkaido University "Sustainability Weeks 2008" <http://sw2008.jp/> in association with G8 Hokkaido Toyako Summit 2008 where the principal concern is environmental affairs in earth level. Research accomplishments in all the aspects of biomedical, environmental and their related topics are welcome, including

- (1) Biomedical applications of nano/micro structure and materials
- (2) Nanotoxicology and risk assessment of nano/micro particles such as nanotubes, asbestos, diesel exhaust particulates
- (3) Environmental application and assessment of nano/micro particles including photocatalysts

PLENARY LECTURES

"Nanomedical Applications of Functionalized Carbon Nanotubes" Alberto Bianco (CNRS, Strasbourg, France)
"Microwave Hazard on Proteins Adsorbed on Carbon Nanotubes" Masato Sano (Yamagata University)
"Magnetic Drug Targeting" Urs Hafeli (University of British Columbia, Canada)
"Anti-bacterial Ceramics using Ag bearing Glaze" Noritumi Iku (INAX Corporation)

"Development of a Second-generation Radiofrequency Ablation using Sintered MgFe₂O₄ Needles and Alternating Magnetic Field for Human Cancer Therapy" Yuji Watanabe (Ehime University)
"Effective Hydrogen Generation using Stratified Type Photocatalyst" Hideyuki Takahashi (Tohoku University)
"Novel Preparation Method of Environmental Catalysts and their Application" Atsushi Muramatsu (Tohoku University)

CALL FOR PAPERS#

- 1a) Abstract (200words) / Application Form (April 24)
- 2a) Extended Abstract (1 page / A4 paper)—Proceedings will be published and delivered on Symposium. (May 9)
- 3p) Paper Publication: Submitted manuscripts will be published in the journal BMME* after the blind peer-reviewing process (Additional fee might be necessary). (July 17)

IMPORTANT DAYS (DEADLINES)#

- 1a) April 24: Abstract (200words) with Application Form Application of Young Researcher Travel Award
- 2e) May 9: Extended Abstract (1 page / A4 paper)
- 2r) May 16: Pre-registration#
- 3) June 16-17: Symposium (June 16: Banquet)
- 3p) July 17: Submission of full paper for BMME*

YOUNG RESEARCHER TRAVEL AWARD#

Overseas (Non-Japanese Nationality): ¥100,000-150,000
(Approximately \$1,000-1,500) for 7-10 persons
Application Form: Curriculum Vitae, List of Publications, Abstract, Application Form, Extended Abstract
Eligibility: Age/ less than 40 years old. This award must be the main travel fee, not overlapped with other travel grant.
Deadline of Application: April 24
Registration: Registration fee is not exempted.

REGISTRATION#

	Pre-registration (May 16)	After May 17
General:	¥25,000	¥30,000
Student:	¥12,000	¥15,000

* BMME: Bio-Medical Materials and Engineering
<http://www.iospress.nl/loadtop/load.php?isbn=09592989>
For details and templates, see <http://sw2008.jp/nano>

VENUE (Hokkaido University)

<http://www.hokudai.ac.jp/en/index.html>

ISNT2008 / SYMPOSIUM CHAIR

Prof. Fumio Watari (Hokkaido University)
Prof. Kazuyuki Tohji (Tohoku University)

BMME* EDITORIAL BOARD

Prof. Takeo Yokobori (Teikyo University)
Prof. Kenzo Asaoka (Tokushima University)

SECRETARIAT

Dr. T. Akasaka, Graduate School of Dental Medicine,
Hokkaido University, Sapporo 060-8586 (Japan)
E-mail: nano@den.hokudai.ac.jp
Tel/Fax: +81-11-706-4251
URL: <http://sw2008.jp/nano>

Extended Abstract

F. WATARI K. TOHJI K. ASAKA

International Symposium on Nanotoxicology Assessment and Biomedical, Environmental Application of Fine Particles and Nanotubes ISNT2008

June 16-17, 2008
Hokkaido University, Sapporo, Japan

Oral Presentation



全体の参加者	89
発表者	71
講演数	79
・招待講演	7
・Young Research	8

Poster Presentation



・Oral	20
・Poster	44
・重複	7
参加のみ	18
海外からの参加者	12

Young Researcher Travel Awardees

(YR-1) “Characterization of Electrical Properties of HL-60 Cell Membrane by Rotating of Cells Uptake of Nanoparticles in A DEP Chip”

台湾

Cheng-Hsin Chuang (Southern Taiwan University, Taiwan)

(YR-2) “Electrode Arrays of Carbon Nanofibers for Biosensing at the Molecular and Cellular Level”

米国

Jessica Koehne (NASA Ames Research Center, USA)

(YR-3) “Biomimetic Nerve Guidance Grafts: Synergism of Physical Nano-topography and Biochemical Guidance Cues”

シンガポール

Hui Shan Koh (National University of Singapore, Singapore)

(YR-4) “Identification and Assessment of the Effects of Engineered Nanoparticles on Brain Cells”

独国

Maria Iwe (Technical University Dresden, Germany)

(YR, P1-003) “Fabrication and influence of heat treatment on nano-structured titanium oxide”

韓国

Il Song Park (Chonbuk National University, Korea)

(YR-5) “Injectable Biphasic Calcium Phosphate Bioceramic: the HYDROS? Concept”

仏国

Serge Baroth (University of Nantes, France)

(YR-6) “Designer Functionalized Self-assembling Peptide Nanofiber Scaffolds for the Growth, Migration, and Tubulogenesis of Human Umbilical Vein Endothelial Cells”

中国

Xiumei Wang (Tsinghua University, China)

(YR-7) “Calcium Phosphate Nanoparticles for Cell Transfection”

独国

Ganna Kovtun (University of Duisburg-Essen, Germany)

**International Symposium on
“ Nanotoxicology Assessment and Biomedical, Environmental
Application of Fine Particles and Nanotubes “ (ISNT2008)**

<http://sw2008.jp/nano>

June 16-17, 2008

Hokkaido University Conference Hall, Sapporo, Japan

