

The Second International Conference on Japan-Bangladesh Research and Practice (JBRP2023) of Network of Bangladesh Researchers in Japan (NBRJ)

Technical Program

Venue: Building G, Room 28 (G28), Nanzan University, Nagoya, Japan

Day 1: Friday, 11 August 2023

9:30 – 16:00 **Registration**

Opening

10:00 – 10:30

Opening Remarks: Kazumitsu Minamikawa, *Dean of the Faculty of Business Administration, Nanzan University*

Session 1: Business, Humanities, and Social Science

10:30 – 11:00

Session Chair: Chowdhury Mahbubul Alam, *Fukuoka Women's University*

10:30 – 10:45 **Exploring the financial behavior and prestige seeking consumers in developing countries: A study of capital city Dhaka, Bangladesh**
A R S Ibn Ali, *Osaka University*

10:45 – 11:00 **Determinants of Gender Diversity: Evidence from an Emerging Economy**
Bishnu Kumar Adhikary, *University of Hyogo*

Coffee Break

Session 2: Medical, Pharmaceuticals, and Public Health

11:15 – 12:00

Session Chair: Salma Akter, *Kyoto University*

11:15 – 11:30 **Development of a novel animal model for cancer immunotherapy targeting human macrophages**
Tania Afroj*, Yasuyuki Saito, and Takashi Matozaki, *Kobe University*

11:30 – 11:45 **Oral passive IgY-based immunotherapeutics: A novel solution for the welfare of human and animal health**
Shofiqur Rahman*, Koji Umeda, and Sa Van Nguyen, *Immunology Research Institute in Gifu*

11:45 – 12:00 **Presenilin regulates ApoE secretion, a novel role of presenilin involved in sporadic Alzheimer's disease**
Sadequl Islam^{1*}, Yang Sun¹, Yuan Gao¹, Tomohisa Nakamura¹, Noriyuki Kimura², Etsuro Matsubara², Kensaku Kasuga³, Takeshi Ikeuchi³, Taisuke Tomita⁴, Kun Zou¹, and Makoto Michikawa¹, ¹ *Nagoya City University*, ² *Oita University*, ³ *Niigata University*, ⁴ *University of Tokyo*

Lunch

Tutorial

14:00 – 16:00

Organizer: Shoaib Bhuiyan, *Suzuka University of Medical Science*

Speakers: Shoaib Bhuiyan, *Suzuka University of Medical Science*
Mahfuzul Islam, *Kyoto University*
Ashir Ahmed, *Kyushu University*
Mohammad Abdul Malek, *University of Tsukuba*

Coffee Break

Session 3: Natural Sciences, Engineering, and ICT

16:15 – 17:30

Session Chair: Ashir Ahmed, *Kyushu University*

16:15 – 16:30 **Challenges of Developing a Sustainable Highway Framework for Bangladesh**
Daud A Z M Farhan*, and Kenichi Matsui, *University of Tsukuba*

16:30 – 16:45 **Solid Waste Management in Dhaka City Corporation**
Mohammad Aminul Islam*, and Zakaria Hossain, *Mie University*

16:45 – 17:00 **Vegetable oil-derived biodegradable tungsten doped porous nanocarbon composite as an excellent catalyst for rechargeable Li-air battery and fuel cell**
Md. Zahidul Islam, *Nagoya University*

17:00 – 17:15 **Sustainable Green Energy: Global Carbon Neutralization in Gas to e-Fuel by Renewable Energy**
Md. Shahajahan Kutubi, *Nagoya University*

17:15 – 17:30 **A High-temperature Superheated Steam Gasification System for Plastic Waste**
M. M. Ashraful Alam^{1*}, Junpei Maruo², ¹ *Osaka Sangyo University*, ² *OSU Company*

Welcome Dinner

18:00 – 20:30

Day 2: Saturday, 12 August 2023

8:30 – 14:00 **Registration**

Keynote Speech

08:45 – 9:45

Title: **Uncovering Knowledge**

Speaker: Sharifu Ura, *Kitami Institute of Technology*

Session 4: Business, Humanities, and Social Science

9:50 – 10:35

Session Chair: Bishnu Kumar Adhikary, *University of Hyogo*

9:50 – 10:05 **Human Resource Management in Social Business Enterprises of Bangladesh**
Sufia Jahan, *Nanzan University*

10:05 – 10:20 **Credit Access and Women's Bargaining Power within the Household: Evidence from a Randomized Controlled Trial**
Mohammad Abdul Malek, *University of Tsukuba*

10:20 – 10:35 **Micro Healthcare Entrepreneurship Model with Digital Health and Social Business: Accelerating Universal Health Coverage in Bangladesh**

Coffee Break

Session 5: Medical, Pharmaceuticals, and Public Health

10:50 – 11:20

Session Chair: Tania Afroj, *Kobe University*

- 10:50 – 11:05 **Evaluation of lung carcinogenicity of single-walled carbon nanotube compared with MWCNT-7 and MWCNT-N**
Asraful Nahar Sheema*, Aya Naiki-Ito, Hiroyuki Kato, Anna Kakahashi, Hiroyuki Tsuda, and Satoru Takahashi, *Nagao City University*
- 11:05 – 11:20 **DNA break repair machinery corroborates early hormone-induced transcription by regulating the activity of enhancers**
Salma Akter^{1*}, Shintaro Yamada¹, Gang He², Naoki Hirose⁴, Yasuhiro Umemura³, Kazuhiro Yagita³, Yasuhiro Murakawa^{4,5}, Hisashi Tanaka¹, and Shunichi Takeda², ¹ *Kyoto University*, ² *Shenzhen University*, ³ *Kyoto Prefectural University of Medicine*, ⁴ *Kyoto University*,
⁵ *RIKEN Center for Integrative Medical Sciences*, ⁶ *Cellular and Molecular Pharmacology*

Session 6: Natural Sciences, Engineering, and ICT

11:25 – 12:10

Session Chair: Md. Altaf-Ul-Amin, *Nara Institute of Science and Technology*

- 11:25 – 11:40 **Enhancing Productivity in Bangladesh Using Occupational Health and Safety (OHS) and Productivity Maturity Model (PMM)**
Md Mamunur Rashid¹, and Sharifu Ura^{2*}, ¹ *Bangladesh Institute of Management*, ² *Kitami Institute of Technology*
- 11:40 – 11:55 **Nanospace Enthalpy for Macrospace Sustainable Heating and Cooling**
Jubair A. Shamim*, Gunjan Auti, Ming-Hsuan Hu, Kimura Hibiki, Fabio Boccamazzo, Eita Fujino, Gojo Yonetani, Wei-Lun Hsu, and Hirofumi Daiguji, *The University of Tokyo*
- 11:55 – 12:10 **Developments of Self-Rectifying Air Turbines for Wave Energy Conversion**
Manabu Takao¹, M. M. Ashraful Alam^{2*}, Shinya Okuhara¹, Toshiaki Setoguchi³, ¹ *Matsue College*, ² *Osaka Sangyo University*, ³ *Saga University*

Lunch

NBRJ General Meeting

Session 7: Agricultural Science

13:30 – 14:00

Session Chair: Tofael Ahamed, *University of Tsukuba*

- 13:30 – 13:45 **Assessment of Shoreline and Agricultural Land Use Change in Onshore Coastal Region of Bangladesh Delta Using Satellite Remote Sensing and GIS Techniques**
Md. Shamsuzzoha^{1,2*}, and Tofael Ahamed¹, ¹ *University of Tsukuba*, ² *PSTU*
- 13:45 – 14:00 **Climate-Adaptive Potential Crops Selection in Vulnerable Agricultural Lands Adjacent to the Jamuna River Basin of Bangladesh Using Remote Sensing and a Fuzzy Expert System**
Kazi Faiz Alam*, and Tofael Ahamed, *University of Tsukuba*

Session 8: Natural Sciences, Engineering, and ICT

14:05 – 14:50

Session Chair: Sharifu Ura, *Kitami Institute of Technology*

- 14:05 – 14:20 **Advancements in Display Backplane Technology and Their Integration in AR/VR/Mixed Reality**
Mehadi Aman, *Sharp Corporation*
- 14:20 – 14:35 **Challenges of Automatic Characterization of Semiconductor Optoelectronic Devices**
Ashim Kumar Saha*, Hosaka Hajime, *Opto System Co. Ltd.*
- 14:35 – 14:50 **Real-time Temperature Estimation of Power MOSFETs Utilizing Zero-current Switching for Inverter Applications**
Raul R. Rodriguez G.*, Mahfuzul Islam, Takashi Hisakado, and Osami Wada, *Kyoto University*

Coffee Break

Session 9: Natural Sciences, Engineering, and ICT

15:05 – 15:50

Session Chair: Ashim Kumar Saha, *Opto System Co. Ltd.*

- 15:05 – 15:20 **Developing Design and Manufacturing Systems for Achieving the Fourth Industrial Revolution**
Sharifu Ura* and Angkush Kumar Ghosh, *Kitami Institute of Technology*
- 15:20 – 15:35 **Novel Methods and Tool for Clustering of Simple and Bipartite Graphs: Applications in Ecology and Computational Biomedical Research**
Md. Altaf-Ul-Amin, *Nara Institute of Science and Technology*
- 15:35 – 15:50 **Elucidating the Properties of Jute Fibers and the Working Conditions at Jute Factories**
Sweety Shahinur¹, Jufikar Haider², and Sharifu Ura^{3*}, ¹ *Bangladesh Jute Research Institute*, ² *Manchester Metropolitan University*,
³ *Kitami Institute of Technology*

Coffee Break

Panel Discussion

16:00 – 17:00

Organizer: Mohammad Abdul Malek, *University of Tsukuba*

Topic: Collaboration between Bangladeshi Researchers and Practitioners for JICA's Projects/Program in Bangladesh

Lead Speaker: Syed Nasir Ershad, *The Embassy of Bangladesh in Tokyo*

Panelists: Chowdhury Mahbubul Alam, *Fukuoka Women's University*

Tofael Ahamed, *University of Tsukuba*

Salma Akter, *Kyoto University*

Shoaib Bhuiyan, *Suzuka University of Medical Science*

Award Ceremony and Closing

17:00 – 17:30