

The 2nd GI-CoRE GSQ, GSB, & IGM JOINT SYMPOSIUM
Quantum, Informatics, Biology & Medicine
(The 6th GSQ Symposium & the 2nd GSB Symposium)

Day 1: August 7, 2018

I. Plenary Session

Venue: Akira Suzuki Hall, Frontier Research in Applied Sciences Bldg.,
School of Engineering, Hokkaido University

1. 8:40 – 9:00

Opening Remarks

Toyoharu Nawa, Hokkaido Univ. GI-CoRE

Masanori Shinano, Minister of Education, Culture, Sports, Science and Technology

[*Moderator: Masanori Kasahara, Hokkaido Univ. GI-CoRE*]

2. 9:00 – 10:00

Special Lecture 1: Artificial Intelligence in Medicine: Past, Present, and Future

Lei Xing, Stanford Univ. GSQ

3. 10:00 – 11:00

Special Lecture 2: TRANSFORM: Envisioning the Future

Hiroshi Ishii, MIT Media Lab

----- Coffee Break -----

4. 11:15 – 12:15

Special Lecture 3: Drawing, Analyzing, and Using the Route Map of Chemical Reactions

Satoshi Maeda, Hokkaido Univ. Fac. of Science

5. 12:15 – 13:00

Panel Discussion: My Research Approach

Moderator: Yoshikazu Miyanaga (Hokkaido Univ. GSB)

Panelists: Lei Xing (Stanford Univ. GSQ)

Hiroshi Ishii (MIT Media Lab)

Satoshi Maeda (Hokkaido Univ. Fac. of Science)

Priyadarsi Nanda (Univ. of Technology Sydney, GSB)

----- Lunch Break -----

[*Moderator: Yasuhito Onodera, Hokkaido Univ. GSQ*]

6. 14:00 – 15:00

Special Lecture 4: Ancient and modern RNA worlds

Tetsuro Hirose, Hokkaido Univ. IGM

----- Coffee Break -----

7. 15:15 – 16:15

Special Lecture 5: Visualizing virus-host interaction

Asuka Nanbo, Hokkaido Univ. Fac. Medicine

8. 16:15 – 16:30

Closing Remarks

Hiroki Shirato, Hokkaido Univ. GSQ

Organizers:

Global Station for Quantum Medical Science and Engineering (GSQ), Global Station for Big Data and Cybersecurity (GSB), Institute for Genetic Medicine (IGM), Faculty of Medicine, Hokkaido University, Department of Radiation Oncology, School of Medicine, Stanford University
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Day 2: August 8, 2018

II. GSQ & IGM Session

Venue: Special Conference Room, Faculty of Medicine, Hokkaido University

[*Moderator: Shigetsugu Hatakeyama, Hokkaido Univ. Fac. of Medicine*]

1. 8:45 – 9:30

Four-dimensional Radiation Oncology, Real-time-image Guided Radiotherapy

Shinichi Shimizu, Hokkaido Univ. GSQ

2. 9:30 – 10:15

Advancements in Stereotactic Body Radiotherapy for Liver Tumors

Daniel Chang, Stanford Univ. GSQ

----- Coffee Break -----

[*Moderator: Masayuki Noguchi, Hokkaido Univ. IGM*]

3. 10:30 – 11:15

Tackling Salivary Gland Stem/Progenitor Cells to Improve Function after Radiotherapy

Quynh-Thu Le, Stanford Univ. GSQ

----- Coffee Break -----

4. 11:30 – 12:00

Comprehensive identification of E3 ubiquitin ligase substrates by fusion of TUBE and ligase trapping methods

Masashi Watanabe, Hokkaido Univ. Fac. of Medicine

----- Lunch Break -----

[*Moderator: Akinori Takaoka, Hokkaido Univ. IGM*]

5. 13:00 – 13:45

Cell competition between normal and transformed epithelial cells

Yasuyuki Fujita, Hokkaido Univ. IGM

6. 13:45 – 14:30

The Holy Grail of Radiation Oncology- Radiation Protection of Normal Tissue and Radiosensitization of Tumors

Amato Giaccia, Stanford Univ. GSQ

III. GSB Session

Venue: Room L-200, School of Engineering, Graduate School of Information Science and Technology, Hokkaido University

1. Priyadarsi Nanda (Univ. of Technology Sydney, GSB)

2. Student Research Workshop

*Please visit <https://gi-core.oia.hokudai.ac.jp/gsb/> for details.

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