

The 8th International Symposium of Gunma University Initiative for Advanced Research (GIAR)

Date: February 3-4, 2020

Venue: Tojo Hall, Showa Campus, Gunma University

Organizers: Kathryn D Held (Massachusetts General Hospital) & Atsushi Shibata (GIAR)

[DAY 1] Monday, February 3

Welcome Address

13:00-13:05 Hiroshi Hiratsuka (President of Gunma University)

Session 1: DNA Damage Response

[Chair: Atsushi Shibata]

13:05-13:35 Lee Zou (Massachusetts General Hospital)

"The ATR Checkpoint Pathway: from Basic Research to Targeted Cancer Therapy"

13:35-14:05 Jessica Downs (The Institute of Cancer Research)

"The SWI/SNF Chromatin Remodeling Complex Contributes to Genome Stability Through DNA Damage and Replication Stress Responses"

14:05-14:35 Akiko Takahashi (Japanese Foundation for Cancer Research)

"The Biology of Cellular Senescence in Age-related Diseases"

14:35-15:05 Atsushi Shibata (GIAR)

"Regulation of DNA Double Strand Break Repair Pathway Choice at Transcriptionally Active Region"

15:05-16:00 Coffee Break & Poster Session

Session 2: Next Generation Cancer Therapy

[Chair: Kathryn D Held]

16:00-16:30 Silvia C. Formenti (NYP/ Weill Cornell Medicine)

"Radiotherapy to Convert the Tumor Into an In Situ Vaccine"

16:30-17:00 Kent W. Mouw (Dana-Farber Cancer Institute/Brigham & Women's Hospital)

"DNA Repair Pathway Alterations as Chemotherapy and Immunotherapy Biomarkers"

17:00-17:30 Keisuke Kataoka (National Cancer Center Research Institute)

"Landscape and Significance of Multiple Mutations in the Same Oncogene"

17:30-18:00 Naoki Hosen (Osaka University Graduate School of Medicine)

"The Activated Conformation of Integrin $\beta 7$ Is a Novel Multiple Myeloma-specific Target for CAR T-cell Therapy"

18:30- Welcome Reception

[DAY 2] Tuesday, February 4

9:00-10:00 Poster viewing

Session 3: Radiation Effects on the Brain and Cognitive Impairment

[Chair: Reiko Roppongi]

10:00-10:30 Anggraeini Puspitasari (GSI Helmholtzzentrum für Schwerionenforschung GmbH)

"The Fate of Directly Irradiated and Bystander Immature Developing Neurons"

10:30-11:00 Mikio Shoji (Geriatrics Research Institute and Hospital)

"Alzheimer's Disease; Natural Course and Development for Disease Modified Therapy"

11:00-11:30 M. Kerry O'Banion (University of Rochester School of Medicine and Dentistry)

"Space Radiation Alters Amyloid Beta Clearance in Mouse Models of Alzheimer's Disease"

11:30-12:00 Makoto Higuchi (National Institutes for Quantum and Radiological Science and Technology)

"In-vivo Assessments of Protein Fibrillogenesis, Oxidative Stress, and Reactive Gliosis"

12:00-12:30 Sandeep Burma (University of Texas Health San Antonio)

"Heavy ion-induced Brain Tumor Development in Mouse Glioblastoma Models"

Closing Remarks

12:30-12:35 Kenji Kubota (GIAR Director/ Vice President of Gunma University)