Program Day 1: March 13, 2020

13:00-13:10 Opening Ceremony

13:10-14:10 Oral Session 1

Chairs: Mutsumi Tashiro (Gunma University Heavy Ion Medical Center)
Shinsuke Katoh (Yokohama University of Pharmacy)

14:10-14:50 Keynote Lecture 1

Chair: Takashi Nakano (Quantum and Radiological Science and Technology)

KL-1 Prevention of cranial neurotoxicity by radiotherapy
Shogo Ishiuchi (University of the Ryukyus)

14:50-15:50 Poster Session, Coffee Break, Exhibition browse

15:50-17:10 Symposium 1:

Cutting edge of diagnostic and therapeutic radiology of CNS

Chairs: Masataka Uetani (Nagasaki University)

Hirokazu Hirai (Gunma University)

- S1-1 Advancing Chemogenetic & Optogenetic Technologies via Multimodal Imaging (20min.)

 Michael Michaelides (Drug Abuse Intramural Research Program, Baltimore)
- S1-2 Visualization and manipulation of neural and glial pathways in homeostasis and pathogenesis (20min.)

Makoto Higuchi (National Institutes for Quantum, Japan)

S1-3 Gamma- and cyber-knife for skull base benign tumors and arteriovenous malformation: efficacy, adverse effects and comparison between these modalities (20min.)

Masahito Kobayashi (Saitama medical university hospital, Japan)

S1-4 Adaptive Staged Gamma Knife radiosurgery for large brain metastases: a multiinstitutional retrospective study (JLGK1601) (20min.)

Toru Serizawa (Tokyo Gamma Unit Center, Japan)

17:10-18:10 Plenary Lecture (in Japanese)

Chair: Yuko Sekino (The University of Tokyo, Japan)

PL Development of surgical simulation using AI

Nobuhito Saito (The University of Tokyo, Japan)

18:10- Banquet / Conference social party

Program Day 2: March 14, 2020

09:10-09:30 Morning Seminar

Chair: Tatsuya Ohno (Gunma University, Japan)

MS Development of a novel treatment for malignant brain tumors with a Japan-oriented radioactive drug

Yukie Yoshii (Quantum and Radiological Science and Technology, Japan)

09:30-10:30 Workshop: (in Japanese)

Brand-new treatment and technique

Chair: Akihisa Takahashi (Gunma University Heavy Ion Medical Center, Japan)

WS-1 Radiation induced anti-tumor immunity and its importance in radiotherapy clinic

Yoshiyuki Suzuki (Fukushima Medical University, Japan)

WS-2 Observing heterogeneity in cell society

Asako Sakaue-Sawano (RIKEN, CENTER FOR BRAIN SCIENCE, Japan)

10:30-11:30 Oral Session 2

Chairs: Hiro Sato (Gunma University Heavy Ion Medical Center, Japan)

Yuta Shibamoto (Nagoya City University, Japan)

11:30-12:00 Poster Session, Coffee Break, Exhibition browse

12:00-13:00 Luncheon Seminar (in Japanese)

Chair: Katsuyuki Shirai (Jichi Medical University Saitama Medical Center, Japan)

LS Recent Development of MR Imaging with/without Contrast Agents for Brain Tumor

Toshinori Hirai (University of Miyazaki, Japan)

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13:20-13:30 ISRN General Meeting

13:30-14:10 Keynote Lecture 2

Chair: Koji Tsuboi (Tsukuba Central Hospital, Japan)

KL-2 Towards reducing the side effects of radiation therapy: basic research on the effects of radiation on neurological function

Tomoaki Shirao (Gunma University, Japan)

14:10-15:50 Symposium 2:

Neuroprotective mechanisms and future treatments for radiation

- induced brain injury

Chairs: Yasuki Ishizaki (Gunma University, Japan)

Yukari Yoshida (Gunma University Heavy Ion Medical Center, Japan)

S2-1 Specific Recruitment of Brain Immune Cell of Microglia Following Irradiation-Induced Brain Injury in Embryonic Medaka Model (20min.)

Takako Yasuda (The University of Tokyo, Japan)

S2-2 Interplanetary Travels' Limit: Space Radiation (25min.)

Walter Tinganelli (GSI Helmholtzzentrum für Schwerionenforschung GmbH Germany)

S2-3 Hibernation for radiation: reducing metabolism to reduce damage (25min.)

Matteo Cerri (Biomedical and NeuroMotor Sciences – University, Italy)

S2-4 Microglia prune synapses to modulate brain function (30min.)

Ryuta Koyama (The University of Tokyo, Japan)

15:50-15:55 The 10th ISRN excellent presentation award

15:55-16:00 Closing Ceremony