

Program

4th March 2023

13:00-13:05 Opening Remarks

13:05-14:05 Oral Session 1 (Neurobiology)

Chair: **Takako Yasuda** (Japan Women's University, Japan)

OS1-1 Epidermal growth factor (EGF) signal modulates perineuronal net formation in the neocortex of developing rodent brains

Yuriko Iwakura (Niigata University Brain Research Institute, Japan)

OS1-2 A trial to control microglial activation in irradiated medaka embryo as a model to suppress prolonged inflammation in CNS

Takako Yasuda (Japan Women's University, Japan)

OS1-3 High-throughput phenotypic assay using frozen neurons

Ayaka Higa (AlzMed, Inc., Japan)

OS1-4 Quantitative analysis for drebrin clusters along dendrites using immunocytochemical images of cultured rat hippocampal neurons

Shogo Mase (The University of Tokyo, Japan/Gunma University, Japan)

14:05-14:15 Break

14:15-15:15 Plenary Lecture

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

PL1 Drebrin: from structure and function to physiological and pathological roles

Tomoaki Shirao (AlzMed, Inc., CEO, Japan)

15:15-15:25 Break

15:25-16:55 Oral Session 2(New Brain Tumor Treatments)

Chair: **Shogo Ishiuchi** (University of the Ryukyus, Japan)

OS2-1 Epigenetic upregulation of Schlafen11 renders WNT- and SHH- activated medulloblastomas sensitive to cisplatin

Satoshi Nakata(Johns Hopkins University School of Medicine, USA/Gunma University, Japan)

- OS2-2 SLFN11 as a biomarker for sensitivity to radiation in medulloblastoma
Manabu Natsumeda (Niigata University, Japan)
- OS2-3 Investigation of anti-tumor effects by inhibiting glucose uptake via sodium-glucose transporter 2 (SGLT2) expressed in glioblastoma cell lines
Takeyoshi Eda (Brain Research Institute, Niigata University, Japan)
- Chair: **Yoshihiro Tsukamoto** (Niigata University, Japan)
- OS2-4 Therapeutic targeted surface antigen expression in choroid plexus carcinoma cell
Nobuhiro Kubo (Niigata University, Japan)
- OS2-5 Near-infrared photoimmunotherapy using a small protein mimetic for brain metastasis of HER2-overexpressing breast cancer
Haruka Takezawa-Yamaguchi (The Nippon Dental University, Japan)
- OS2-6 Near-infrared Photoimmunotherapy for Malignant Brain Tumors Targeting Podoplanin
Jotaro On (Niigata University, Japan)

16:55-17:05 Break

17:05-18:05 Keynote Lecture

Chair: **Manabu Natsumeda** (Niigata University, Japan)

- KL1 Vulnerability of CA3 -Mossy fiber networks by radiation induces dysfunction of pattern separation and pattern completion
Shogo Ishiuchi (University of the Ryukyus, Japan)
- KL2 Ground simulation experiment: Chromosome aberration frequencies due to space radiation exposure on the Moon and Mars
Akihisa Takahashi (Gunma University Heavy Ion Medical Center, Japan)

Board Meeting

5th March 2023

9:00~10:00 Oral Session 3 (Radiation Therapy)

Chair: **Yoshiyuki Suzuki** (Fukushima Medical University, Japan)

OS3-1 Unusual gustatory perception during radiotherapy sessions: a case report

Kazuma Umemiya (Fukushima Medical University, Japan)

OS3-2 Cognitive function of 3-year survivors after whole-brain radiotherapy for brain metastasis

Toshimichi Nakano (Niigata University, Japan)

OS3-3 Is re-radiation therapy appropriate for radiation induced glioma occurred post germinoma treatment? Two illustrative cases and literature review

Yoshihiro Tsukamoto (Niigata University, Japan)

OS3-4 Glioma Stem-Like Cells Can Be Targeted in Boron Neutron Capture Therapy

Natsuko Kondo (Kyoto University, Japan)

10:00~11:00 Oversea Lecture

Chair: **Katsuyuki Shirai** (Jichi Medical University Hospital, Japan)

OL Scientific and clinical requirements for FLASH therapy

Gael Boivin (Varian Medical Systems, Inc., Switzerland)

11:00-11:10 Break

11:10~12:10 Plenary Lecture

Chair: **Nobuyuki Takei** (Niigata University, Japan)

PL2 The Watershed between the Aging and Diseased Brain

Hitoshi Shimada (Niigata University, Japan)

12:10-12:15 Closing Remark