

PROGRAM

Monday, June 23

<Session Room 1>

7:45~7:55 **Opening remarks**

Koichi Ichimura (Japan)

7:55~8:00 **Housekeeping announcement**

Hirokazu Takami (Japan)

8:00~8:30 **Special Lecture 1 ZAP-X** (Sponsor: ZAP Surgical Systems, Inc.)

Moderator: **Koichi Ichimura (Japan)**

SL1

Radiation for Glioblastoma: A Pending Revolution

John R. Adler (USA)

8:30~9:00 **Special Lecture 2 Radiation Oncology**

(Sponsor: Varian Medical Systems K.K.)

Moderator: **Ryo Nishikawa (Japan)**

SL2

Optimizing Radiation Strategies for Brain Metastases: Balancing Tumor Control and Neurocognitive Preservation

Hidefumi Aoyama (Japan)

9:00~9:15 **Session 1 Radiation Oncology**

Moderator: **Susan Chang (USA)**

O-001

COGNITIVE DECLINE CAUSED BY CRANIAL RADIATION AND THERAPY FOR SYNAPTIC MODULATION

Shogo Ishiuchi (Japan)

O-002

ACCELERATOR-BASED BORON NEUTRON CAPTURE THERAPY, A RANDOMIZED CONTROLLED TRIAL FOR REFRACTORY RECURRENT HIGH-GRADE MENINGIOMAS

Shin-Ichi Miyatake (Japan)

O-003

MR-LINAC ON-LINE WEEKLY ADAPTIVE RADIOTHERAPY (RT) FOR NEWLY DIAGNOSED GLIOBLASTOMA: RESULTS FROM THE UNITED SINGLE ARM PHASE II TRIAL

James R. Perry (Canada)

9:15~9:45 **Session 2 Neuroimaging 1** (Sponsor: Nihon Medi-Physics Co., Ltd.)

Moderator: **Manabu Kinoshita (Japan)**

O-004

QUANTIFICATION OF VASCULAR AND CELLULAR ARCHITECTURE, OXYGEN METABOLISM, AND FUNCTIONAL CONNECTIVITY IN GLIOMAS USING DYNAMIC SAGE-EPI

Benjamin M. Ellingson (USA)

O-005

A generative AI for methadone PET image generation from MRI

Manabu Kinoshita (Japan)

9:45~10:13 **Session 3 Neuroimaging 2**

Moderator: Manabu Kinoshita (Japan)

O-006 CLINICAL TRANSLATION OF HYPERPOLARIZED CARBON-13 METABOLIC IMAGING IN PATIENTS WITH RECURRENT GLIOBLASTOMA

Susan Chang (USA)

O-007 CHARACTERIZATION OF RECURRENT TUMOR AND TREATMENT RELATED EFFECT USING 18F-FLUOROETHYTYROSINE IN GLIOMAS: RESULTS FROM A PROSPECTIVE PHASE 2 TRIAL (UC-GLIOFET)

Javier E. Villanueva-Meyer (USA)

O-008 Prognostic impact of radiological patterns and systemic therapy on leptomeningeal metastases

Hideyuki Arita (Japan)

O-009 IMPROVING RADIATION TARGET VOLUME DEFINITION FOR GLIOBLASTOMA USING AI-DRIVEN PREDICTIONS OF TUMOR RECURRENCE FROM ADVANCED MRI

Janine M. Lupo (USA)

O-010 Clinical/imaging characteristics and treatment of recurrent germinoma

Fumiyuki Yamasaki (Japan)

10:13~10:23 *Coffee Break*

10:23~11:25 **Session 4 Molecular Classification**

Moderator: Guido Reifenberger (Germany)

Paul Northcott (USA)

Pieter Wesseling (Netherlands)

O-011 DISSECTING LONGITUDINAL TRAJECTORIES OF GLIOBLASTOMA ECOSYSTEMS BY SINGLE-CELL GENOMICS

Masashi Nomura (Japan)

O-012 Prediction of brain metastasis development with DNA methylation signatures

Gelareh Zadeh (Canada)

O-014 The clinical and molecular landscape of diffuse hemispheric glioma, H3 G34-mutant

Emilie Le Rhun (Switzerland)

O-015 REFINING DIAGNOSTIC AND MOLECULAR UNDERSTANDING OF OLIGODENDROGLIOMAS

Giselle Y. Lopez (USA)

O-016 The tumor cell states and resistance to therapy of genetically predisposed and sporadic glioma

Antonio Iavarone (USA)

O-017 cIMPACT-NOW: ABOUT UPDATES AND BALANCING ACTS

Pieter Wesseling (Netherlands)

O-018 PROTEOMIC LANDSCAPE OF HUMAN BRAIN TUMORS

Andreas von Deimling (Germany)

O-019 ASTROBLASTOMA COMPRISES THREE MOLECULARLY AND CLINICALLY DISTINCT SUBTYPES CHARACTERIZED BY DIFFERENT FUSION GENES

Marcel Kool (Germany)

O-021 IMMUNOHISTOCHEMICAL EXPRESSION AND DIFFERENTIAL METHYLATION OF HOXB13 RELIABLY DISTINGUISHES MYXOPAPILLARY EPENDYMOMA FROM SPINAL EPENDYMOMA

Guido Reifenberger (Germany)

O-022 Phenotyping of lymphoid aggregations in brain tumors

Karl H. Plate (Germany)

11:25~11:55 **Session 5 Glioma heterogeneity/microenvironment**
(Sponsor: Chimerix, Inc.)

Moderator: Jason Huse (USA)

- O-023** Relearning glioma evolution and heterogeneity from a 3D whole tumor perspective
Joseph Costello (USA)
- O-024** Unveiling the Origins of Glioblastoma: Linking Developmental Programs to Suppression of the Innate Immune Response
David M. Ashley (USA)
- O-025** The epigenetic evolution of IDH-mutant oligodendrogliomas highlights modes of tumour progression and allows for molecular based grading
Pim French (Netherlands)
- O-026** Protein-based classification reveals an immune-hot subtype in IDH mutant astrocytoma with worse prognosis
Jiguang Wang (Hong Kong)
- O-027** GENOMIC HETEROGENEITY DRIVES DISTINCT INFILTRATION PATTERNS IN GLIOBLASTOMA
Bjarne Winther Kristensen (Denmark)

12:05~13:04 **Luncheon Seminar 1 Genomic Medicine**
(Sponsor: KONICA MINOLTA REALM, INC.)

Moderator: Koichi Ichimura (Japan)

- LS1-1** Molecular Targeted Therapies and Comprehensive Genomic Profiling for Brain Tumors in Japan: Current Status and Challenges
Shota Tanaka (Japan)
- LS1-2** LANDSCAPE OF NATIONWIDE COMPREHENSIVE GENOMIC PROFILING TESTING OF 974 ADULT CENTRAL NERVOUS SYSTEM TUMORS IN JAPAN
Masamichi Takahashi (Japan)
- LS1-3** MULTI-OMICS ANALYSIS REVEALS THE HOMOGENEITY AND MOLECULARLY NON-AGGRESSIVE CHARACTERISTICS OF CENTRAL NEUROCYTOMA
Hiromichi Suzuki (Japan)
- LS1-4** A Multi-Center Retrospective Study on Lower Grade Gliomas in Japan
Yoshiki Arakawa (Japan)
- LS1-5** Announcing the Asian Oceanian Society of Neuropathology guidelines for Adapting Diagnostic Approaches for Practical Taxonomy in Resource-Restrained Regions (AOSNP-ADAPTR)
Takashi Komori (Japan)
- LS1-6** Mutation Analysis of Brain Tumors from FFPE Material Using a Bench-Top Long-Read Sequencer
Kaishi Satomi (Japan)

13:09~14:36 **Session 6 Genetics/Precision Medicine**

Moderator: David Ashley (USA)
Simon Gregory (USA)
Pim French (Netherlands)

- O-028** DEVELOPMENT OF A NOVEL TERT PROMOTER MUTATION TARGET THERAPY BY CRISPR LIBRARY SCREENING USING IPSC-DERIVED GLIOBLASTOMA MODEL
Shunichiro Miki (Japan)
- O-029** UPDATE ON GBM AGILE: A GLOBAL, PHASE 2/3 ADAPTIVE PLATFORM TRIAL TO EVALUATE MULTIPLE REGIMENS IN NEWLY DIAGNOSED AND RECURRENT GLIOBLASTOMA.
Timothy Cloughesy (USA)

- O-030 The origins of brain tumors: Insights into glioblastoma, IDH-mutant glioma, and meningioma
Seok-Gu Kang (Korea)
- O-031 The origins and dynamics of cell-free DNA in cerebrospinal fluid from patients with embryonal tumours
Sebastian M. Waszak (Switzerland)
- O-032 IDENTIFICATION OF RECURRENT GENETIC ALTERATIONS IN PINEOBLASTOMA SUBTYPES
Torsten Pietsch (Germany)
- O-033 LONGITUDINAL CHARACTERIZATION OF EXTRACHROMOSOMAL DNA AMPLIFICATIONS IN ADULT GLIOMA COHORT
Hoon Kim (Korea)
- O-035 CHARACTERIZING THE IMMUNE-MICROENVIRONMENT OF BREAST AND LUNG CANCER BRAIN METASTASES REVEALS PROGNOSTICALLY RELEVANT IMMUNE LANDSCAPES
Christel Claudia Herold-Mende (Germany)
- O-036 Determinants of Tumor-Infiltrating Lymphocyte (TIL) Expansion in High-Grade Gliomas through Multimodal Profiling
Mustafa Khasraw (USA)
- O-037 VARIATION AMONG INTACT TISSUE SAMPLES REVEALS THE CORE TRANSCRIPTIONAL FEATURES OF CELL TYPES AND STATES IN ADULT MALIGNANT GLIOMAS
Michael C. Oldham (USA)
- O-038 PHASE 0/1 TRIAL OF BDTX-1535 FOR RECURRENT WHO GRADE 3-4 GLIOMAS WITH EGFR ALTERATIONS
Yoshie Umemura (USA)
- O-039 Clinical Characteristics of Optic Pathway Hypothalamic Low-grade Gliomas harboring FGFR1 mutation
Shigeru Yamaguchi (Japan)
- O-040 Molecular Insights, Personalized Medicine: Transforming Patient Care through Precision Biology
Simon G. Gregory (USA)
- O-041 DNA hypomethylator phenotype reprograms oncogenic neuron-glioma network in glioblastoma
Kenta Masui (Japan)
- O-042 Tumor-immune evolution at recurrence
Joanna J. Phillips (USA)
- O-043 A randomized, placebo-controlled phase III trial of an autologous formalin-fixed tumor vaccine (Cellm-001) for newly diagnosed glioblastoma
Yoshihiro Muragaki (Japan)

14:36~15:02 **Session 7 Viral therapy 1 / Immunotherapy 1**

Moderator: Tomoki Todo (Japan)

- O-123 PHASE I TRIAL OF MESENCHYMAL STEM CELLS CARRYING DELTA-24-RGD GIVEN INTRAARTERIALY IN RECURRENT GLIOMA: INITIAL REPORT
Frederick F. Lang (USA)
- O-124 Non-lytic replicating viral delivery of an IL-15 superagonist enhances antitumor immunity and extends survival in glioblastoma
Manish K. Agbi (USA)
- O-130 NEOADJUVANT ANTI-PD1 TREATMENT IN RECURRING RESECTABLE GLIOBLASTOMA: IMMUNE RESPONSE AND MOLECULAR INSIGHTS
Manfred Westphal (Germany)

15:02~15:41 **Session 8 Neurosurgery** (Sponsor: S&Brain Corporation)

Moderator: Yukihiro Sonoda (Japan)

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- O-044 Visual Foundation Model for Fast, Label-free Detection of Diffuse Glioma Infiltration During Surgery
Mitchel S. Berger (USA)
- O-045 The importance of fluorescence-guided resection and the histological growth pattern in brain metastases
Nils Ole Schmidt (Germany)
- O-046 Introduction of a novel prognostic classification system for extent of resection in IDH-mutant grade 2 glioma: a report by the RANO resect group
Philipp Karschnia (Germany)
- O-047 Survival outcome and prognostic factors in patients with insular gliomas undergoing intraoperative awake brain mapping
Kazuya Motomura (Japan)
- O-048 AI-ASSISTED VIRTUAL REALITY SURGICAL REHEARSAL IN GLIOMA SURGERY
Tae Hoon Roh (Korea)
- O-049 A phase III randomized trial of gross total resection versus possible resection of FLAIR hyperintensity lesion on MR image for newly diagnosed supratentorial glioblastoma
Yukihiro Sonoda (Japan)
- O-050 Transsylvian Approach for Radical Resection of Insular Gliomas: Emphasizing The Importance of The Transsylvian Approach for Elderly Patients with Zone II Insular Gliomas
Toshihiro Kumabe (Japan)

<Session Room 2>

15:51~16:49 **Young Investigator's Session** (Sponsor: QIAGEN K.K.)

Moderator: Koichi Ichimura (Japan)

QIAGEN Presentation

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- O-051 BRD4::LEUTX fusion exerts its oncogenic properties via a novel transcriptomic machinery
Arata Tomiyama (Japan)
- O-052 LONG-TERM TREATMENT WITH THE MUTANT IDH INHIBITOR DS-1001B INHIBITS THE GROWTH OF IDH1 MUTANT GLIOMAS AND INDUCES EPIGENETIC MODIFICATIONS IN VITRO AND IN VIVO
Kenji Fujimoto (Japan)
- O-053 Translating basic research on immunotherapy for glioblastoma into an investigator-initiated clinical trial
Yoshihiro Otani (Japan)
- O-054 Unraveling the Origin of Butterfly Glioblastoma: Does It Solely Arise from the Cerebral Hemispheres?
Ichiyo Shibahara (Japan)
- O-055 IDENTIFICATION OF GENETIC ALTERATIONS AND POTENTIAL THERAPEUTIC TARGETS IN HIGH-GRADE MENINGIOMAS USING CANCER GENE PANEL TESTING
Shigeo Ohba (Japan)
- O-056 Imaging Features and Progression Pattern of Diffuse Hemispheric Gliomas, H3 G34-mutant
Fumiharu Ohka (Japan)
- O-057 GAS6-Mediated Proliferation Advantage under Starvation in RNF213-Deficient Medulloblastoma Contrasts with Growth Defects in Standard Condition
Yohei Mineharu (Japan)