

AP15-6 Rare KRAS Q61K Mutant Tectal Glioma Presenting as a Large Aqueductal Mass in an Adolescent

Po Yin Tang

Department of Anatomical Pathology, Singapore General Hospital / Duke-NUS Medical School

June 13

Room 1

8:50-9:00 ASNO–EANO Memorandum of Understanding (MOU) Signing Ceremony

Chairperson: **Mitsutoshi Nakada** (Department of Neurosurgery, Kanazawa University)

Rakesh Jalali

Neuro Oncology Cancer Management Team, Apollo Proton Cancer Centre, Chennai, India

Michael Platten

Neurology, Chairman, Department of Neurology, University Hospital Mannheim, Germany / Head CCU Neuroimmunology and Brain Tumor Immunology, DKFZ Heidelberg, Germany / Heidelberg University, Germany

9:00-9:20 Special Lecture 5

Immunotherapy of gliomas

Chairperson: **Sith Sathornsumetee** (Department of Medicine (Neurology), Faculty of Medicine Siriraj Hospital, Mahidol University)

ASL5 Michael Platten

Professor, Department of Neurology, Medical Faculty Mannheim Heidelberg University

9:25-10:15 Special Lecture 6

Neuroscience and Novel Therapies in Glioma

Chairpersons: **Pin-Yuan Chen** (Department of Neurosurgery, Chang Gung Memorial Hospital, Keelung and Chang Gung University)
Seok-Gu Kang (Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine)

ASL6-1 The neuroscience of brain cancers

Michelle Monje

Department of Neurology, Stanford University

ASL6-2 Intercepting Neuro Tumor Communication: Novel Therapies for Diffuse Glioma

Shawn Hervey-Jumper

University of California, San Francisco

10:20-11:50 Symposium 5

Immunotherapy

Chairpersons: **Naoya Hashimoto** (Department of Neurosurgery, Kyoto Prefectural University of Medicine)
Sith Sathornsumetee (Medicine (Neurology), Mahidol University, Siriraj Hospital)

ASY5-1 Improving Specificity and Reducing Exhaustion: Phase I Trial of a Prime-and-Kill CAR-T Therapy [Keynote Lecture]

Hideho Okada

Department of Neurosurgery, University of California, San Francisco

ASY5-2 Concept of longitudinal immunotherapy with Ad-SGE-REIC-NS for recurrent glioblastoma

Yoshihiro Otani

Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

ASY5-3 Radiotherapy-induced XAF1 reprograms myeloid cells to enhance anti-tumor T cell responses in glioma

Dennis Alexander Agardy

DKTK Clinical Cooperation Unit (CCU) Neuroimmunology and Brain Tumor Immunology, German Cancer Research Center (DKFZ) Heidelberg / Department of Neurology, MCTN, Medical Faculty Mannheim, Heidelberg University / Faculty of Biosciences, Heidelberg University

ASY5-4 A Phase I Study Evaluating the Safety and Preliminary Efficacy of BC008-1A in Recurrent Glioblastoma

Di Wang

Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University

ASY5-5 Phase I Trial of the Aromored CAR-T Cell Therapy Targeting EGFRvIII in Glioblastoma

Koji Yoshimoto

Department of Neurosurgery, Graduate School of Medical Sciences, Kyushu University

ASY5-6 Identification of target antigens and their application to CAR-based therapy against glioblastoma

Noriyuki Kijima

Department of Neurosurgery, The University of Osaka Graduate School of Medicine

11:55-12:10 Special Lecture 7

Current and future strategy of the EORTC Brain Tumor Group

Chairperson: **Tomoki Todo** (Dean's Office, and Department of Surgical Neuro-Oncology, The Institute of Medical Science, The University of Tokyo)

ASL7 Emilie Le Rhun

Department of Medical Oncology and Hematology, University Hospital Zurich

12:30-13:30 Luncheon Seminar 2

Glioma in 2026: Integrating Molecular Insights and Multidisciplinary Care

Chairperson: **Yuichi Hirose** (Department of Neurosurgery, Fujita Health University)

ALS2-1 Evolving Surgical Strategies and Network-Based Perspectives in IDH-Mutant Glioma

Shawn Hervey-Jumper

University of California, San Francisco

ALS2-2 Systemic Therapy in IDH-Mutant Glioma: Emerging Biology, Targeted Therapy, and Clinical Integration

Patrick Yung Chih Wen

Mass General Brigham Cancer Institute

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14:00-14:45 Meet the Presidents

Meet the Presidents

Faculty: **Xuejun Yang** (Department of Neurosurgery, Beijing Tsinghua Changgung Hospital, Clinical School of Medicine, Tsinghua Medicine, Tsinghua University)

Koichi Ichimura (Department of Pathology, Kyorin University)

Michael Platten (EANO President)

Professor, Department of Neurology, Medical Faculty Mannheim Heidelberg University

Rakesh Jalali (ASNO President)

Neuro Oncology Cancer Management Team, Apollo Proton Cancer Centre, Chennai, India

Evanthia Galanis (SNO President)

Department of Oncology, Mayo Clinic

14:50-15:05 Special Lecture 8

Global Collaboration in Neuro-Oncology: The Role of SNO in a Shared Future

Chairperson: **Susan M Chang** (Neurological Surgery, Ucsf)

ASL8 **Evanthia Galanis**
Department of Oncology, Mayo Clinic

15:10-15:40 Special Lecture 9

The Evolving Landscape of Neuro-Oncology Therapeutics

Chairperson: **Patrick Yung Chih Wen** (Neuro-Oncology, Mass General Brigham Cancer Institute)

ASL9 **Michael Weller**
Department of Neurology, University Hospital & University of Zurich, Zurich, Switzerland

15:45-17:25 Special Session 1

Current Status and Initiatives in Brain Tumor Treatment and Education Across Countries

Chairpersons: **Ryo Nishikawa** (Director, Nerima Station Rehabilitation Hospital)
Se-Hyuk Kim (Department of Neurosurgery, Ajou University)

ASS1-1 Promotion of neuro-oncological research by Japan Society for Neuro-Oncology

Yuichi Hirose
Department of Neurosurgery, Fujita Health University

ASS1-2 Advancing Brain Tumour Care in Australia and New Zealand: Trials, Technology, and Access

James Richard Whittle
Department of Medical Oncology, Peter MacCallum Cancer Centre, Melbourne

ASS1-3 Growing and prospects of Neuro-oncology in China

Zhongping Chen
Department of Neurosurgery/Neuro-oncology, Sun Yat-sen University Cancer Center / Department of Neurosurgery, Qinghua University

ASS1-4 Current Status and Initiatives in Brain Tumor Treatment, Research and Education in India: Advancing Knowledge and Expanding Access

Tejpal Gupta
Professor & Head, Department of Radiation Oncology, ACTREC-Tata Memorial Centre, HBNI, Mumbai, India and Vice-President. Indian Society of Neuro-Oncology (ISNO), Mumbai, INDIA

ASS1-5 Current Status and Initiatives in Brain Tumor Treatment and Education in Korea

Shin-Hyuk Kang
Department of Neurosurgery, Korea University

ASS1-6 Current Status and Initiatives in Brain Tumor Treatment and Education in the Philippines

Julette Marie Feliciano Batara
Department of Neurosciences, University of the Philippines Philippine General Hospital / Institute of Neurosciences, St. Luke's Medical Center

ASS1-7 Advancing Brain Tumor Care in Singapore: Precision Therapy, Trials and Education

Balamurugan Vellayappan
Department of Radiation Oncology, National University Cancer Institute Singapore

ASS1-8 Taiwan's current clinical landscape, challenges, and future breakthroughs for brain tumor treatment

Pin-Yuan Chen
Department of Neurosurgery, Chang Gung Memorial Hospital keelung and Chang Gung University

ASS1-9 The Current Landscape of Neuro-Oncology in Thailand

Sith Sathornsumetee

Department of Medicine (Neurology), Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand

ASS1-10 Neuro-oncology in New Zealand: Current practice, geographic challenges and National Registry

Catherine Hye-Won Han

Department of Medical Oncology, Auckland City Hospital

Room 2

9:25-11:10 Symposium 4

Pediatric Tumors

Chairpersons: **Keita Terashima** (Division of Neuro-Oncology, Children's Cancer Center, National Center for Child Health and Development)

Wan-Yee Teo (Cancer and Stem Cell Biology Program, Duke-NUS Medical School; Pediatric Brain Tumor Research Office at SingHealth Duke-NUS Academic Medical Center, Singapore)

Tai Tong Wong (Pediatric Neurosurgery, Department of Neurosurgery, Taipei Medical University Hospital, Taipei Medical University)

ASY4-1 Elucidating Genetic Alterations and Cells of Origin in Brain Tumors [Keynote Lecture]

Hironichi Suzuki

Division of Brain Tumor Translational Research, National Cancer Center Research Institute

ASY4-2 Targeting residual SWI/SNF dependency induces synthetic lethality in SMARCB1-deficient AT/RT [Keynote Lecture]

Jun Watanabe

Department of Neurosurgery, Niigata University

ASY4-3 Genomic Analysis and Exploration of Therapeutic Targets in Pediatric and AYA Gliomas Using C-CAT

Mako Kamiura

Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan

ASY4-4 A Regional Survey of CNS Germ Cell Tumors in Kumamoto Prefecture, Japan: Long-Term Follow-Up Study

Takahiro Yamamoto

Department of Neurosurgery, Kumamoto University Medical School, Kumamoto, Japan

ASY4-5 Anlotinib Plus Radiotherapy for Newly Diagnosed Pediatric Malignant BSG: Safety and Efficacy Study

Yuanyuan - Chen

Department of Radiation Oncology, Sun Yat-sen University Cancer Center

ASY4-6 A single center retrospective analysis of pediatric medulloblastoma in Beijing Tiantan Hospital

Tao Jiang

Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University

ASY4-7 Targeting residual SWI/SNF dependency induces synthetic lethality in SMARCB1-deficient AT/RT

Jun Watanabe

Department of Neurosurgery, Niigata University

11:15-12:15 Coffee Break Seminar 2

Advances in Brain Tumor Surgery, Including Tumor-Related Epilepsy

Chairperson: **Yukihiko Sonoda** (Department of Neurosurgery, Faculty of Medicine, Yamagata University)

ACB2-1 Daisuke Kuga

Department of Neurosurgery, Graduate School of Medical Sciences, Kyushu University

ACB2-2 Shota Tanaka

Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences

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12:30-13:30 Luncheon Seminar 3

Recent Topics on Cerebellar Hemangioblastoma

Chairperson: **Nobuhito Saito** (Department of Neurosurgery, the University of Tokyo)

ALS3-1 Hypoxic Response: From Nobel Prize to Drug Development

Yoji Andrew Minamishima

Department of Biochemistry, Gunma University Graduate School of Medicine

ALS3-2 A Novel HIF-2 α Inhibitor Treatment for CNS Manifestations of Von Hippel-Lindau Disease

Kensuke Tateishi

Department of Neurosurgery, Graduate School of Medicine, Yokohama City University

Co-Sponsored by: **MSD K.K. Medical Affairs Oncology**

14:00-15:15 Symposium 6

Novel therapy 1

Chairpersons: **Yonehiro Kanemura** (Institute for Clinical Research, NHO Osaka National Hospital)

Chae-Yong Kim (Department of Neurosurgery, Seoul National University)

James Richard Whittle (Department of Medical Oncology, Peter MacCallum Cancer Centre)

ASY6-1 Development of oncolytic virus therapies for malignant glioma [Keynote Lecture]

Tomoki Todo

Department of Surgical Neuro-Oncology, The Institute of Medical Science, The University of Tokyo

ASY6-2 Verteporfin-PDT Targets Glioblastoma via YAP Degradation and ROS-Dependent Mitochondrial Apoptosis

Tae Hoon Roh

Department of Neurosurgery, Yonsei University Severance Hospital

ASY6-3 A phase 1 trial of mycophenolate mofetil with chemoradiation in newly diagnosed glioblastoma

Yoshie Umemura

Ivy Brain Tumor Center, Barrow Neurological Institute / Department of Neurology, University of Michigan

ASY6-4 Phase 1/2a of RZ-001 + valganciclovir evaluating the safety and efficacy in hTERT positive GBM

Chae Yong Kim

Neurosurgery, Seoul National University Bundang Hospital

ASY6-5 A Phase 0/1 Study of PRMT5 inhibitor BMS-986504 in Recurrent Glioblastoma with MTAP deletion

Nader Sanai

Ivy Brain Tumor Center, Barrow Neurological Institute

15:20-16:20 Symposium 8

Drug Resistance

Chairpersons: **Hiroshi Nishihara** (Center for Cancer Genomics, Keio University School of Medicine)
Euihyun Kim (Department of Neurosurgery, Yonsei University)

ASY8-1 Temozolomide Resistance in Glioblastoma: Exploiting Molecular Mechanisms to Develop Novel Therapeutic Strategies [Keynote Lecture]

Gasper J. Kitange

Associate Professor, University of Minnesota, The Hormel Institute, Austin, MN, USA

ASY8-2 Multi-Omics Analysis Identify GSTA4 as a Biomarker for Temozolomide Resistance in Glioblastoma

Chenchun Ding

Department of Neurosurgery, Beijing Tsinghua Changgung Hospital, School of Clinical Medicine, Tsinghua University

ASY8-3 Targeting GDF15 as a novel therapeutic target against SHH-type medulloblastomas

Arata Tomiyama

Department of Neurosurgery, National Defense Medical College / Department of Neurosurgery, Graduate School of Medicine, Juntendo University

ASY8-4 SJB2-043 suppresses glioblastoma tumorigenesis by targeting USP32 and promoting EGFR degradation

Ye Yuan

Department of Medical Oncology, Chongqing University Cancer Hospital

16:25-17:40 Symposium 9

Cell Biology

Chairpersons: **Eiichi Ishikawa** (Department Neurosurgery, University of Tsukuba)
Vinay K. Puduvalli (Neuro Oncology, UT MD Anderson)

ASY9-1 How glioblastoma disables p53 through nuclear pore transport and creates a therapeutic vulnerability [Keynote Lecture]

Richard W. Wong

WPI Nano Life Science Institute, Kanazawa University

ASY9-2 Effective Targeting of Glioma Stem Cells by BSJ-04-122, a Novel Covalent MKK4/7 Dual Inhibitor

Kazuki Nakamura

Department of Molecular Cancer Science, Yamagata University / Department of Neurosurgery, Yamagata University

ASY9-3 Effects of Hypoxia-driven Intra-subtype Heterogeneity of Glioblastoma on the Tumor Microenvironment

Geraldine Lee

MD Program, Duke-NUS Medical School / Pediatric Brain Tumor Research Office, and The Laboratory of Pediatric Brain Tumor Research Office, SingHealth-Duke-NUS Academic Medical Center

ASY9-4 Small GTPase Rheb as a Metabolic subtype Factor and Mitochondrial Regulator in Glioma

Yuze He

Department of Neurosurgery, Sichuan University

ASY9-5 The role of epitranscriptomic tRNA modifications by TRIT1 on adenosine at position 37 in GBM

Takahiro Yamamoto

Department of Neurosurgery, Kumamoto University Medical School, Kumamoto, Japan / Dept. Mol. Physiol., Kumamoto Univ., Kumamoto, Japan

Room 3

9:00-10:00 Coffee Break Seminar 1

18F-fluciclovine(18F-FACBC) for the Diagnosis and Treatment of Glioma

Chairperson: **Takashi Sasayama** (Department of Neurosurgery, Kobe University Graduate School of Medicine)

ACB1-1 Clinical utility of 18F-fluciclovine PET in glioma surgery

Shigeo Ohba

Department of Neurosurgery, Fujita Health University

ACB1-2 Clinical Significance of 18F-Fluciclovine PET in Brain Tumors: A Single-Center Case Series

Shigeru Yamaguchi

Department of Neurosurgery, Faculty of Medicine, Hokkaido University

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10:05-11:15 Oral presentation 1

Advanced Surgery in Glioma

Chairpersons: **Yoshihiro Muragaki** (Department of Medical Device Engineering, Kobe University)

Danny TM Chan (Neurosurgery, The Chinese University of Hong Kong)

Shin-Hyuk Kang (Department of Neurosurgery, Korea University College of Medicine)

AO1-1 Survival Benefit of Supramaximal Resection in Elderly Patients with IDH-wildtype Glioblastomas

Yae Won Park

Department of Radiology, Yonsei University College of Medicine

AO1-2 Beyond 5-ALA: Calpain-1-targeted topical fluorescence for glioblastoma surgery

Shota Tanaka

Department of Neurological Surgery, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences

AO1-3 The value of resection of high-grade brain glial tumors using 5-aminolevulinic acid

Dinara Berdibayeva

National Centre for Neurosurgery

AO1-4 Ischemic safety of a chopstick-like micro forceps in subpial glioma surgery: a retrospective study

Masashi Kinoshita

Department of Neurosurgery, Kanazawa University

AO1-5 Clinical outcome of trans opercular approach in 78 Insular Glioma following awake surgery

Sushanta Kumar Sahoo

Additional Professor, Neurosurgery, PGIMER, Chandigarh, India

AO1-6 Outcomes of Early Salvage Surgery for Post-Radiotherapy Lesions in Patients with Glioblastoma

Shigeru Yamaguchi

Department of Neurosurgery, Faculty of Medicine, Hokkaido University

AO1-7 Next-Generation Multimodality Brain Tumor Surgery Utilizing Exoscopic and Endoscopic Technologies

Kazuhiko Kurozumi

Department of Neurosurgery Hamamatsu University School of Medicine

11:20-12:10 Oral presentation 2

Advanced Imaging in Glioma

Chairpersons: **Keisuke Miyake** (Department of Neurological Surgery, Kagawa University)

Julette Marie Feliciano Batara (Neurooncology, University of the Philippines Philippine General Hospital)

AO2-1 Peritumoral oxygen extraction fraction reflects tumor proliferation in untreated glioblastoma

Jonas Reis

Institute of Neuroradiology, LMU Munich

AO2-2 Radiological Evolution of IDH-Wildtype Glioblastoma using Retrograde Longitudinal Imaging data

Ichiyo Shibahara

Department of Neurosurgery, Kitasato University

AO2-3 From Qualitative to Quantitative Volumetric Analysis of the Subventricular Zone in Glioblastoma

Chia Hsien Yang

Department of Neurosurgery, Center Chang Gung Memorial Hospital Keelung branch

AO2-4 PET-Guided Assessment of Glioblastoma Infiltration beyond Conventional Imaging

Keisuke Miyake

Department of Neurological Surgery, Kagawa University Faculty of Medicine

AO2-5 Cerebral blood volume synthesis from non contrast MRI by deep learning

Yingchao Liu

Department of Neurosurgery, Shandong First Medical University

14:00-15:30 Symposium 7

Glioma: Basic Research

Chairpersons: **Kazuhiko Mishima** (Department of Neuro-Oncology/Neurosurgery, Saitama Medical University)

Zhongping Chen (Department of Neurosurgery/Neuro-oncology, Sun Yat-sen University Cancer Center)

Takashi Sasayama (Department of Neurosurgery, Kobe University)

ASY7-1 Spatial Multi-omics Defines Invasive Glioblastoma Niches and Microenvironment Evolution [Keynote Lecture]

Nhan Le Tran

Department of Cancer Biology, Mayo Clinic Arizona / Division of Immunology and Microbiome, Translational Genomics Research Institute (part of City of Hope) / Department of Neurological Surgery, Mayo Clinic Arizona

ASY7-2 Repurposing use of anti-epilepsy drug in glioma patients through insight mechanism

Zhong-Ping Chen

Department of Neurosurgery/Neuro-oncology, SUn Yat-sen University Cancer Center, Guangzhou

ASY7-3 IL-15 Enhanced hiPSC Derived Natural Killer Cells Target Temozolomide Surviving High Grade Gliomas

Thuy Thi-Anh Tran

Brain Tumor Research Laboratory, Chonnam National University Medical School and Hwasun Hospital

ASY7-4 Recapitulating GBM-Induced Angiogenesis Using Vascular Organoids for Tumor-Vascular Interaction

Taehyeong Ha

Department of Neurosurgery, Seoul National University Bundang Hospital

ASY7-5 Next-Generation Humanized Mouse Models for malignant brain tumors [Keynote Lecture]

Satoru Osuka

Department of Neurosurgery, The University of Alabama at Birmingham

ASY7-6 Establishment of an *in vivo* glioblastoma model using ferrets with minimal genetic manipulation

Kazuya Morita

Department of Medical Neuroscience, Graduate School of Medical Sciences, Kanazawa University / Department of Neurosurgery, Graduate School of Medical Sciences, Kanazawa University

15:35-16:35 Coffee Break Seminar 3

The forefront of Surgical Microscopes

Chairperson: **Ryuta Saito** (Nagoya University)

ACB3-1 Advances in Brain Tumor Surgery with the KINEVO 900 S

Yoshiki Arakawa

Kyoto University

ACB3-2 What Only the Microscope Can Reveal Today

Akihide Kondo

Juntendo University

Co-Sponsored by: **Carl Zeiss Meditec Co., Ltd.**

16:40-17:40 Oral presentation 3

Molecular Pathology/Biomarkers

Chairpersons: **Hideaki Yokoo** (Department of Human Pathology, Gunma University)

Hideo Nakamura (Department of Neurosurgery, Kurume University School of Medicine)

Jun Dong (Department of Neurosurgery, the Second Affiliated Hospital of Soochow University)

AO3-1 Serum Lactate as a Tumor Malignancy and Size Marker in Primary Intracranial Tumor Patients

Fadilah Oliv Khairina

Department of Neurology, North Sumatera University

AO3-2 A qPCR-Detectable Methylation Panel to Augment WHO CNS5 Workflows in Adult-type Diffuse Gliomas

Xiaojia Liu

Department of Pathology, Huashan Hospital, Shanghai Medical College, Fudan University

AO3-3 Intraoperative rapid molecular diagnostics contribute to expediting pathological diagnosis.

Ryuta Saito

Department of Neurosurgery

AO3-4 EP4 Expression Predicts Bevacizumab Response and Shows Post-Treatment Upregulation in Glioblastoma

Irfan Kesumayadi

Division of Neurosurgery, Department of Neurosciences, Tottori University

AO3-5 Serum miRNA for Glioma Screening: Importance of Strict Quality Control and Integrated Data Analysis

Sho Osawa

Department of Neurosurgery and Neuro-Oncology, National Cancer Center Hospital / Department of Neurosurgery, Gunma University Graduate School of Medicine

AO3-6 Tissue-Sparing Brain Tumour Classification Using Aggregated Spatial Transcriptomics

Sze Jet Aw

Department of Pathology and Laboratory Medicine, KK Women's and Children's Hospital

Exhibition & Poster Venue

15:30-16:10 Poster presentation 16

Tumor Immunology 3

Chairperson: **Ryusuke Hatae** (Department of Neurosurgery, Kyushu University)

- AP16-1 Targeting Macrophage MARCO Attenuates Glioma Aggressiveness and Enhances RT-Centered Regimens**
Yu Wang
 Department of Radiotherapy, The Second Hospital of Hebei Medical University
- AP16-2 Clinical Implementation of CGP-Based Treatment for BRAF-Altered CNS Tumors Using C-CAT Data**
Makoto Ohno
 Department of Neurosurgery and Neuro-Oncology, National Cancer Center Hospital
- AP16-3 Comparative efficacy and safety of immunotherapy in recurrent glioblastoma: a network meta-analysis**
Aizar Vesa Prasetyo
 General Practitioner, Ibnu Sina Hospital, Riau
- AP16-4 Nationwide Genomic Data Analysis of Central Nervous System Tumors in Japan based on C-CAT Database**
Daisuke Kawauchi
 Department of Neurosurgery and Neuro-Oncology, National Cancer Center Hospital
- AP16-5 Real-World Survival and Safety of Postoperative Dendritic Cell Vaccination in Brain Metastasis**
Chih-Hsiu Tu
 Department of Neurosurgery, China Medical University Hospital

15:30-16:10 Poster presentation 17

Basic Research: Glioma 6

Chairperson: **Yosuke Kitagawa** (Department of Neurosurgery, The University of Tokyo)

- AP17-1 Comparison of different methods for isolating exosomal microRNAs in CSF of glioma patients.**
Pavel Fadrus
 Department of Neurosurgery, University Hospital Brno and Faculty of Medicine, Masaryk University, Brno
- AP17-2 Potential of pentamidine as enhancer of temozolomide; translational research by drug repositioning**
Kosuke Nambu
 Department of Neurosurgery, Kanazawa University
- AP17-3 Oncolytic virus coated with anti-PD-1 and alendronate for improving tumor T cell function**
Yuwei Lin
 Department of Neurosurgery, The Affiliated Hospital of Xuzhou Medical University / Institute of Nervous System Diseases, Xuzhou Medical University
- AP17-4 Antitumor Effects of Lemongrass Essential Oil via Volatile Exposure in Glioblastoma**
Nozomi Hirai
 Department of Neurosurgery, Toho University Ohashi Medical Center
- AP17-5 Immune Activation of GBM Tumors: A Dual Clinical Approach to Treatment**
David E Anderson
 HDT Bio Corp.

15:30-16:10 Poster presentation 18

Basic Research: Glioma 7

Chairperson: **Fumiharu Ohka** (Department of Neurosurgery, Nagoya University Graduate School of Medicine)

AP18-1 Bioprinting of 3D human glioblastoma models for temozolomide and exosome-loaded temozolomide testing

Si Yuen Lee

School of Medical Sciences, Universiti Sains Malaysia

AP18-2 Patient matched glioblastoma organoids for precision drug response profiling

Youxin Zhou

Neurosurgery & Brain and Nerve Research Laboratory, The First Affiliated Hospital of Soochow University

AP18-3 Subventricular Zone Invasion in Low-Grade Glioma is associated with Invasive Phenotype

Ko-Ting Chen

Department of Neurosurgery, Chang Gung Memorial Hospital at Linkou / School of Medicine, Chang Gung University

AP18-4 Tumor Edge Heterogeneity Defines Distinct Invasive States in Glioblastoma

Hirota Inoue

Department of Neurosurgery, Graduate School of Medical Sciences, Kumamoto University / Department of Preventive Medicine, Graduate School of Medicine, The University of Tokyo

AP18-5 CED stress activates Piezo1 mt dsRNA TLR3 signaling and boosts T cell infiltration in glioblastoma

Yu Yao

Department of Neurosurgery, Huashan Hospital, Shanghai Medical College, Fudan University, Shanghai, China

15:30-16:10 Poster presentation 19

Neuroimaging / AI 3

Chairperson: **Fumiyuki Yamasaki** (Department of Neurosurgery, Hiroshima University)

AP19-1 MRI-to-CT Synthesis Using a Mask-Guided Dual GAN for Skull Base Surgical Planning

Shun Yao

Department of Neurosurgery, The First Affiliated Hospital, Sun Yat-sen University

AP19-2 Multiparametric Imaging Biomarkers for Prognostic Stratification in Bevacizumab Treated Glioma

Atsushi Kambe

Division of Neurosurgery, Department of Brain and Neurosciences, Faculty of Medicine, Tottori University

AP19-3 Transcranial Ultrasound Visualization Assessment and Clinical Application in Neuro-oncology

Jiahe Guo

Department of Neurosurgery, Beijing Tsinghua Changgung Hospital, Tsinghua University

AP19-4 Interpretable Radiomics Model Identifies Granulation Patterns in Somatotroph Tumors

Shun Yao

Center for Pituitary Tumor Surgery, Department of Neurosurgery, The First Affiliated Hospital, Sun Yat-sen University

AP19-5 Fluid suppression in APTw imaging may improve the readability in clinical course of glioma

Takahiro Yamauchi

Department of Neurosurgery, Division of Medicine, Faculty of Medical Sciences, University of Fukui

15:30-16:10 Poster presentation 20

Clinical Research: Glioma 3

Chairperson: **Toshihide Tanaka** (Department of Neurosurgery, The Jikei University School of Medicine)

AP20-1 Imaging-based classification of recurrent glioblastoma patterns

Boning Gong
Xi'an Medical University

AP20-2 Glioblastoma mimicking autoimmune meningitis in an adult: A complex diagnostic challenge

Mana Wakabayashi
Department of Neurosurgery, Shinshu University School of Medicine / Department of Neurosurgery, Ina Central Hospital

AP20-3 Response to BRAF/MEK inhibitors in BRAF V600E-mutant epithelioid GBM with leptomeningeal metastasis

Rofat Askoro Bimandoko
Department of Neurosurgery, Hiroshima University

AP20-4 Thalamic Involvement in Glioblastoma Is Associated with a Lower Risk of Seizures

Kazuhide Shimizu
Department of Neurosurgery, Institute of Science Tokyo

AP20-5 Ketogenic diet for high-grade gliomas combined with standard treatment using angiogenesis inhibitor

Takashi Sasayama
Department of Neurosurgery, Kobe University

15:30-16:10 Poster presentation 21

Clinical Research: Glioma 4

Chairperson: **Ichiyo Shibahara** (Department of Neurosurgery, Kitasato University)

AP21-1 A 3 year follow up result of A-BNCT in patients with recurrent high grade gliomas in Korea

Gi-Taek Yee
Department of Neurosurgery, Gil Medical Center, Gachon University, Incheon, Korea

AP21-2 High-resolution spatial transcriptomics reveals a distinct niche in HPAP: A case report

Koki Ise
Department of Cancer Pathology, Faculty of Medicine, Hokkaido University

AP21-3 Identification of molecular boundaries in diffuse gliomas

Shoichi Deguchi
Department of Neurosurgery, Nagoya University School of Medicine, Nagoya, Aichi, Japan

AP21-4 Impact of clinical factors and salvage treatment on survival outcomes in recurrent glioblastoma

Memtombi Ngasepam
Neuro-oncology Disease Management group, Tata Memorial Centre, Homi Bhabha National Institute, Mumbai, India

AP21-5 Postoperative Seizure Predicts Survival in Supratentorial IDH-wildtype Glioblastoma

Kengo Yamada
Department of Neurosurgery, Nara Medical University

15:30-16:10 Poster presentation 22

CNS Metastasis 1

Chairperson: **Kenichiro Asano** (Department of Health Sciences Education, Hirosaki University Graduate School of Medicine)

- AP22-1 Onco-functional Outcome after Microneurosurgical Resection of Brain Metastasis**
Xavier Tj. Hsu
Division of Neurosurgery, Koo Foundation Sun Yat-Sen Cancer Center
- AP22-2 Deep Learning Based Survival Prediction in Lung Cancer Brain Metastases after Radiosurgery**
Yingchao Liu
Department of Neurosurgery, Shandong First Medical University
- AP22-3 Microneurosurgical Resection of Symptomatic Cerebral Radiation Necrosis**
Xavier Tj. Hsu
Division of Neurosurgery, Koo Foundation Sun Yat-Sen Cancer Center
- AP22-4 Local Control Versus Neurological Risk in Cystic Brain Metastases: Ommaya Reservoir vs Resection**
Yiqun Cao
Department of Neurosurgery, Fudan University, Shanghai Cancer Center
- AP22-5 Retrospective analysis of leptomeningeal metastasis from the breast**
Niharika Pandey
Department of Pathology

15:30-16:10 Poster presentation 23

Radiation Therapy

Chairperson: **Kaoru Tamura** (Department of Neurosurgery, Institute of Science Tokyo)

- AP23-1 A Systematic Review of Stereotactic Radiosurgery for Recurrent Meningioma**
Yuka Mizutani
Department of Neurosurgery, Stanford University School of Medicine
- AP23-2 Efficacy of Biweekly 3-staged Radiosurgery for Large Brain Metastases from Gastrointestinal Cancers**
Ho Kang
Department of Neurosurgery, Seoul National University Bundang Hospital
- AP23-3 Radiation-Induced Angiosarcoma Following Gamma Knife Radiosurgery for Cerebral Metastasis**
Seon-Hwan Kim
Department of Neurosurgery, Chungnam National University / Gamma Knife Center, Chungnam National University Hospital
- AP23-4 BMI Z-Score and Radiotherapy Adverse Events in Pediatric CNS Tumors During Peri-Radiotherapy**
Shao Qun Li
Department of Oncology, Guangdong Sanjiu Brain Hospital
- AP23-5 Gamma Knife radiosurgery for kidney cancer brain metastases at the only center in Central Asia**
Zada Gapbas
Department of minimally invasive neurosurgery, JSC National center for neurosurgery

16:30-17:02 Poster presentation 24

Basic Research: Glioma 5

Chairperson: **Hirokazu Takami** (Department of Neurosurgery, The University of Tokyo)

- AP24-1 Impact of Primary Ciliary Disruption on Proliferation and Transcriptomic Profiles in Glioblastoma**
Masahiro Oishi
 Department of Neurosurgery, Kanazawa University
- AP24-2 Polymer-locking fusogenic liposomes for glioblastoma-targeted siRNA delivery and CRISPR-Cas editing**
Jinquan Cai
 Department of Neurosurgery, Harbin Medical University
- AP24-3 INA of TMZ conjugated nanoparticles with TMS improves the survival in glioblastoma xenograft models**
Seung Ho Yang
 Department of Neurosurgery, The Catholic University of Korea
- AP24-4 Real-Time Intraoperative Microscopic Photo-Theranostic System for Glioma: A Proof-of-Concept Study**
Kyuha Chong
 Department of Neurosurgery, Samsung Medical Center, Sungkyunkwan University School of Medicine / Photo-Theragnosis and Bioinformatics for Tumor Laboratory, Research Institute for Future Medicine, Samsung Medical Center

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Basic Research: Glioma 6

Chairperson: **Fumi Higuchi** (Department of Neurosurgery, Teikyou University School of Medicine)

- AP25-1 A Re-visit of Glioblastoma Molecular Subtypes utilizing WHO 2021 Classification Frameworks**
Geraldine Lee
 MD Program, Duke-NUS Medical School / Pediatric Brain Tumor Research Office, and The Laboratory of Pediatric Brain Tumor Research Office, SingHealth-Duke-NUS Academic Medical Center
- AP25-2 Subtype-Specific SASP Dynamics Predict Mesenchymal Transition in Recurrent Glioblastoma**
Varshith Kotagiri
 University of Pennsylvania
- AP25-3 Molecular evolution of glioblastoma recurrence reveals patient specific tumor trajectories**
Hamed Allahverdi
 Department of Cancer research, Luxembourg Institute of Health (LIH)
- AP25-4 Enhanced glutathione metabolism drives cell survival and chemoresistance in diffuse midline glioma**
Hiromi Onizuka
 Department of Pathology, Kyorin University School of Medicine
- AP25-5 MYC Expression and 8q24.21 Copy Number in Intracranial Distant Recurrence of IDH-Mutant Astrocytoma**
Keitaro Kai
 Department of Neurosurgery, Fujita Health University Hospital

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Basic Research: Glioma 7

Chairperson: **Hikomichi Suzuki** (Division of Brain Tumor Translational Research, National Cancer Center Japan)

AP26-1 KDM7A-DT Drives metabolic reprogramming in Glioblastoma via VSTM2L signaling

Yu-Yun Kuo

Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University

AP26-2 Single cell visualization of 5-ALA uptake in glioblastoma using super resolution microscopy

Reina Utsugi

Department of Neurosurgery, The University of Osaka Graduate School of Medicine, Japan

AP26-3 Ventral hippocampal dentate gyrus gating of anxiety-like behaviors

Yao Liu

Psychology, Shanghai Mental Health Center, Shanghai Jiao Tong University School of Medicine

AP26-4 Study on the oncogenic mechanism of Pseudomonas colonization in glioblastoma

Lei Ye

Department of Neurosurgery, Second Affiliated Hospital of Anhui Medical University

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Clinical Research: Glioma 5

Chairperson: **Nobuhiro Hata** (Department of Neurosurgery, Oita University)

AP27-1 Overall Survival Benefit of Tumor Treating Fields Continuation After Glioblastoma Recurrence

Shinya Tokunaga

Department of Neurosurgery, Kyoto University Hospital

AP27-2 Early Real-World Experience With Vorasidenib in Chinese Patients With IDH-Mutant Grade 2 Glioma

Xiaohui Ren

Department of Neurosurgery, Beijing Tiantan Hospital, Capital Medical University, Beijing, 100070, China.

AP27-3 Pathological Features and Treatment Strategies in Gliomas Associated with Epilepsy

Shunsuke Nakae

Department of Neurosurgery, Fujita Health University

AP27-4 Synchronous Multicentric WHO grade 3 Oligodendroglioma and WHO grade 3 Astrocytoma : A Case Report

Wan-Soo Yoon

Department of Neurosurgery, Incheon St. Mary's Hospital, The Catholic University of Korea

AP27-5 Distant recurrence in the cerebellar dentate nucleus in supratentorial glioma cases

Masayuki Kanamori

Department of Neurosurgery, Tohoku University Graduate School of Medicine, Sendai, Japan

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Clinical Research: Glioma 6

Chairperson: **Shigeru Yamaguchi** (Department of Neurosurgery, Hokkaido University)

AP28-1 Clinical experience with fluciclovine PET for high grade glioma suspected patients

Shuichiro Hirano

Department of Neurological Surgery, Okayama University Graduate school of Medicine, Dentistry and Pharmaceutical Science

AP28-2 Vorasidenib in Chinese patients with IDH-mutant Low-Grade Glioma: Experience of the First Year

Siliang Chen

Department of Neurosurgery, West China Hospital, Sichuan University

AP28-3 Transplanum polare (TPP) approach to amygdala/hippocampal glioma - a white matter dissection study

Michael See

Department of Neurosurgery, Queen Elizabeth Hospital, Hong Kong

AP28-4 Refractory diffuse pediatric-type high-grade glioma in *PTEN* hamartoma tumor syndrome

Nao Marusawa

Department of Neurosurgery, Gunma University Hospital / Department of Neurosurgery, Fukaya Red Cross Hospital

AP28-5 Staged resection strategy utilizing neoadjuvant chemotherapy for oligodendrogliomas

Hikaru Sasaki

Department of Neurosurgery, Tokyo Dental College Ichikawa General Hospital

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Clinical Research: Glioma 7

Chairperson: **Tomoo Matsutani** (Department of Neurological Surgery, Chiba University Graduate School of Medicine)

AP29-1 Longitudinal circulating tumor cell monitoring in cerebrospinal fluid and blood in high grade glioma

Yu Chung Juan

Department of Neurosurgery, China Medical University Hospital, Taichung

AP29-2 A case of glioma with discordant radiological, histopathological and genetic findings

Nobuhide Hayashi

Department of Neurosurgery, Wakayama Rosai Hospital / Kansai Molecular Diagnosis Network for CNS Tumors

AP29-3 Real-World Experience with German-Sourced ONC201 on H3K27M-altered Diffuse Midline Glioma in Adult

Ka Wing Clara Lee

The Hong Kong Neuro-Oncology Society

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CNS Metastasis 2

Chairperson: **Hidehiro Oka** (Department of Neurosurgery, Kitasato University Medical Center)

AP30-1 Retrospective analysis of leptomeningeal metastases from the lung

Aekta Shah

Department of Pathology, Tata Memorial Hospital and Advanced Centre for Treatment, Research and Education in Cancer, Tata Memorial Centre, Homi Bhabha National Institute (HBNI), Mumbai.

AP30-2 Comparative analysis of the LP shunt versus VP shunt for LM associated hydrocephalus in NSCL cancer

Minjoon Kim

Department of Neurosurgery, Kyungpook National University School of Medicine

AP30-3 Treatment Patterns and Outcomes of Stereotactic Irradiation for Lung Cancer Brain Metastases

Wenjie Yu

Department of Neurosurgery, Kyoto University

AP30-4 Multimodal Local Therapy Improving Survival in Gastric Cancer Leptomeningeal Metastases

Junjie Zhen

Department of Oncology, Guangdong Sanjiu Brain Hospital

AP30-5 Outcomes of surgical resection with stereotactic radiosurgery in the treatment of brain metastases

Pavel Fadrus

Department of Neurosurgery, University Hospital Brno

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Case Report / Rare Case Series 2

Chairperson: **Masahiro Tanji** (Neurosurgery, Kyoto University)

AP31-1 A rare case of NF1 with germline mutation in SDHA

Sara Ganaha

Department of Neurosurgery, Keio University

AP31-2 Neurocutaneous Melanosis Presenting As Non-Convulsive Status Epilepticus: A Case Report

Githa Ayu Astarika

Neurology Dept., Faculty of Medicine, Universitas Padjadjaran

AP31-3 Multifocal Adult-Type Diffuse Glioma WHO Grade 4 Mimicking Brain Metastases: A Case Series

Bithonah Arie Prasadhani

Department of Neurology, Dharmas National Cancer Center, Indonesia / Department of Neurology, Surabaya Ministry of Health General Hospital

AP31-4 Etiologies and outcomes of septic cavernous sinus thrombosis with carotid artery stenosis

Bo-An Chen

Department of Chang Gung Memorial Hospital neurosurgery

AP31-5 Cerebellar pilocytic astrocytoma mimicking extra axial mass

Eui Kyo Seo

Department of Neurosurgery, Ewha womans university