

September 25. (Tue) Room 2 (Hana C 4F)

8:50~10:10 Symposium 8 Pituitary Adenoma, Revised WHO Classification
Chairs : Division of Neuropathology, Department of Pathology, University of Virginia
M. Beatriz S. Lopes
Department of Pathology Toranomon Hospital, Okinaka Memorial Institute
for Medical Research **Naoko Inoshita**

S8-1 Updates on the WHO Classification of Pituitary Neuroendocrine Tumors
Division of Neuropathology, Department of Pathology, University of Virginia
M. Beatriz S. Lopes

S8-2 Non-functioning adenomas - a new approach for their classification
Tokyo Medical University Hospital/Department of Hypothalamic and Pituitary
Surgery, Toranomon Hospital **Hiroshi Nishioka**

S8-3 Updates on TTF-1 Expressing Posterior Pituitary Tumors
Department of Neuropathology, Charité-Universitätsmedizin Berlin
David Capper

S8-4 Updates on Craniopharyngiomas
Department of Pathology Brigham and Women's Hospital,
Harvard Medical School **Sandro Santagata**

10:10~11:50 Symposium 10 Low-grade epilepsy-associated neuroepithelial tumor (LEAT) in Light of the 2016 WHO Classification: Clinicopathological and Molecular-genetic Considerations
Chairs : Department of Anatomic Pathology, Hospital Pedro Hispano
Mrinalini Honavar
Department of (Neuro) Pathology, Academic Medisch Centrum (AMC)
Eleonora Aronica

S10-1 Neuropathological experience with 2244 LEAT from the European
Epilepsy Brain Bank
Department of Neuropathology, University Hospital Erlangen
Ingmar Blümcke

S10-2 The differential diagnosis of ganglioglioma and DNT variants: avenues
towards an integrated phenotype-genotype classification
Department of Neuropathology, Institute of Neurology,
University College London **Maria Thom**

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- S10-3 Pleomorphic Xanthoastrocytoma: Pathology and Genetics
 Anatomic Pathology, Department of Laboratory Medicine and Pathology,
 Mayo Clinic **Caterina Giannini**
- S10-4 Brain somatic mutations in MTOR and BRAF leading to intractable
 focal epilepsy
 Graduate School of Medical Science and Engineering, Korea Advanced Institute
 of Science & Technology (KAIST) **Jeong Ho Lee**
- S10-5 New prospects for the classification of pediatric low-grade gliomas and
 glioneuronal tumors
 Department of Pathology, St. Jude Children's Research Hospital
David W. Ellison
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16:00~17:20 Symposium 19 Meningioma, update

- Chairs : Department of Neuropathology Otto-von-Guericke-University
Christian Mawrin
 Department of Cancer Pathology, Hokkaido University Faculty of Medicine
Shinya Tanaka
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- S19-1 Biological function and therapeutic potential of somatic mutations in
 meningiomas
 Department of Neuropathology Otto-von-Guericke-University
Christian Mawrin
- S19-2 Role of CD163 in meningioma progression
 Department of Cancer Pathology, Hokkaido University Faculty of Medicine
Shinya Tanaka
- S19-3 Update of Meningioma Classification and Genetics
 Department of Pathology, Division of Neuropathology, University of California,
 San Francisco (UCSF) **Arie Perry**
- S19-4 Radiation-induced meningiomas: experience at the Hiroshima University
 Hospital and review of the literature
 Department of Neurosurgery, Hiroshima University Hospital
Fumiyuki Yamasaki

September 25. (Tue) Room 3 (Hana D 4F)

12:00~13:00 Luncheon Seminar 4

Chair : Department of Neurosurgery, Nagoya University
Graduate School of Medicine **Toshihiko Wakabayashi**

LS4-1 What should be expected in one BCNU wafer?

Department of Neurosurgery, Osaka Medical College **Shinji Kawabata**

LS4-2 Importance of intraoperative frozen section diagnosis of the resection margin for effective BCNU wafer implantation

The Department of Neurosurgery, Hirosaki University Graduate School of Medicine **Kenichiro Asano**

Sponsored by Eisai Co., Ltd.

13:10~13:45 BTP Japanese Oral 1 グリオーマの分子病理 1

座長 : 大阪医科大学 脳神経外科 **黒岩 敏彦**
九州大学大学院医学研究院 神経病理学 **鈴木 諭**

J01-1 「再発」グリオーマの系統解析～IDH1変異が「消失」した症例の解析より～

大阪大学大学院医学系研究科 脳神経外科 **梅原 徹** Umehara Toru

J01-2 高齢者低悪性度神経膠腫の臨床・病理像：関西中枢神経腫瘍分子診断ネットワーク登録症例の解析

和歌山県立医科大学医学部 脳神経外科 **深井 順也** Fukai Junya

J01-3 H3.3 K27M抗体陽性gliomaの臨床的・免疫組織学的検討

広島大学病院 脳神経外科 **山崎 文之** Yamasaki Fumiyuki

J01-4 Midline gliomaの遺伝子変異と長期治療成績の検討

岡山大学大学院 脳神経外科 **服部 靖彦** Hattori Yasuhiko

J01-5 WHO2016分類におけるMidline Gliomaの予後及び病理学的検討

福井大学医学系部門医学領域感覚運動医学講座 脳脊髄神経外科
山内 貴寛 Yamauchi Takahiro

13:45~14:20 BTP Japanese Oral 2 グリオーマの分子病理 2

座長 : 東京女子医科大学 脳神経外科 **川俣 貴一**
弘前大学大学院医学研究科 病理診断学講座 **黒瀬 顕**

J02-1 悪性神経膠腫におけるleucine-rich α -2 glycoproteinの臨床病理学的役割

久留米大学医学部 病理学講座／金沢大学 脳神経外科 **古田 拓也** Furuta Takuya

J02-2 グリオーマの浸潤は血管周囲腔が主体であるのか？

福井大学医学部 脳脊髄神経外科 **北井 隆平** Kitai Ryuhei

J02-3 初発膠芽腫の予後に関わる定量的解析におけるMGMTメチル化カットオフ値

埼玉医科大学国際医療センター 脳神経外科/脳脊髄腫瘍科
安達 淳一 Adachi Jun-ichi

J02-4 リアルタイムPCRを用いた神経膠腫の術中遺伝子診断の有用性について

東京女子医科大学 脳神経外科/東京女子医科大学 先端医科学研究所
先端工学外科/牛久愛和総合病院 **郡山 峻一** Koriyama Shunichi

J02-5 Epithelioid glioblastomaおよびGliosarcomaの臨床病理学的検討

東京女子医科大学 脳神経外科 **都築 俊介** Tsuzuki Shunsuke

14:20~15:05 BTP Japanese Oral 3 グリオーマの分子病理 3

座長： 香川大学医学部 脳神経外科 **田宮 隆**
浜松医科大学脳神経外科 **難波 宏樹**

J03-1 膠芽腫における部位特異的な腫瘍幹細胞の発現解析

愛媛大学大学院医学系研究科 脳神経外科学 **西川 真弘** Nishikawa Masahiro

J03-2 腫瘍溶解ウイルスRAMBOはbevacizumab誘発性グリオーマ浸潤を抑制する

岡山大学大学院 脳神経外科 **富田 祐介** Tomita Yusuke

J03-3 膠芽腫内腫瘍関連マクロファージが膠芽腫細胞に与える影響

神戸大学医学部 脳神経外科 **篠山 隆司** Sasayama Takashi

J03-4 膠芽腫の低酸素環境における HIF-1 α /Akt系依存性 がん幹細胞化 機構の証明

北里大学医学部 病理学 **犬飼 円** Inukai Madoka

J03-5 悪性神経膠腫におけるYAP/TAZによるCCN1発現誘導の役割

岡山大学大学院 脳神経外科 **畝田 篤仁** Uneda Atsuhito

J03-6 膠芽腫におけるMGMTプロモーター領域のメチル化の予測マーカー

慶應義塾大学病院 脳神経外科 **金澤 徳典** Kanazawa Tokunori

15:30~16:20 Symposium 17 Molecular diagnosis and treatment of gliomas 1

Chairs : Department of Neuropathology, National Institute of Mental Health
& Neuro Sciences (NIMHANS) **Vani Santosh**
Department of Neurosurgery, Kumagaya General Hospital **Soichiro Shibui**

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- S17-1 Response assessment of bevacizumab for glioblastoma:
Comparison between PET and pathological studies
Department of Neurological Surgery, Kagawa University Faculty of Medicine,
Kagawa, Japan **Keisuke Miyake**
- S17-2 Definition of pathological total removal of glioblastoma multiforme
Department of Neurosurgery, Teikyo University Hospital Mizonokuchi,
Kawasaki, Japan **Shoko Yamada**
- S17-3 Immune checkpoint molecules in high-grade gliomas in adults
Departments of Neurosurgery, Faculty of Medicine, University of Tsukuba
Eiichi Ishikawa
- S17-4 Persistent restoration of the immunosuppressive tumor
microenvironment in glioblastoma by bevacizumab
Department of Neurosurgery, Keio University School of Medicine, Tokyo, Japan
Ryota Tamura
- S17-5 Clinical experience of symptomatic epilepsy in patients with high grade
gliomas
Department of Neurosurgery, Teikyo University School of Medicine,
Tokyo, Japan **Toshio Hirohata**
- S17-6 Vessel mimicry as a target of antiangiogenic therapy for glioblastoma
Department of Neurosurgery, Faculty of Medicine, University of Tsukuba
Shingo Takano

16:20~17:10 Symposium 20 Molecular diagnosis and treatment of gliomas 2

Chairs : Department of Pathology, Seoul National University **Sung-Hye Park**
Department of Neurosurgery, Saitama Medical University Hospital
Takamitsu Fujimaki

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- S20-1 Irradiated brain parenchyma provides favorable microenvironments for
glioma stem cells to maintain their tumor-propagating ability
Department of Neurosurgery, School of Medicine, Osaka Medical College,
Takatsuki, Japan **Naosuke Nonoguchi**

- S20-2 Mining-guided future prediction-The 20 hottest neuro-oncological fields in 2019
Department of Neurosurgery, The University of Tokyo, Tokyo, Japan / Genome Science Division, Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan **Taijun Hana**
- S20-3 Tpr is an autophagy induced cell death suppressor in ependymoma
Department of Neurosurgery, Graduate School of Medical Science, Kanazawa University, Kanazawa, Japan **Sabit Hemragul**
- S20-4 The correlation between 1p19q and TERT promoter mutation status in IDH-mutant gliomas
Department of Neurosurgery, Kyushu University **Nobuhiro Hata**
- S20-5 Clinico-pathological findings of 1p19q LOH by using FISH method in high grade glioma: With findings of MLPA
Department of Neurosurgery, Hirosaki University Graduate School of Medicine, Aomori, Japan **Kenichiro Asano**
- S20-6 Detection of 1p19q codeletion by targeted sequencing for glioma genotyping
Genomics Unit, Keio Cancer Center, Keio University School of Medicine / Cancer Research Institute, Hokuto Hospital **Yasutaka Kato**

17:10~17:45 BTP Japanese Oral 4 グリオーマの分子病理 4

座長： 鹿児島大学大学院歯学総合研究科 神経病学講座 脳神経外科 **吉本 幸司**
藤田保健衛生大学医療科学部 臨床検査学科 病理学 **安倍 雅人**

- J04-1 IDH変異型腫瘍におけるTERT変異と1p/19q共欠失の予後因子としての意義の比較
国立がん研究センター研究所 脳腫瘍連携研究分野 / 大阪大学大学院医学系研究科 脳神経外科 **有田 英之** Arita Hideyuki
- J04-2 WHO2016における悪性神経膠腫に生じた問題点
東京女子医科大学 脳神経外科 **丸山 隆志** Maruyama Takashi
- J04-3 噴霧式新規蛍光プローブの脳腫瘍標識と病理学的検証
東京大学医学部 脳神経外科 **田中 将太** Tanaka Shota
- J04-4 拡散画像のRadiomics解析と機械学習モデルによるIDH1遺伝子変異の同定
東京大学医学部附属病院 脳神経外科 **高橋 慧** Takahashi Satoshi
- J04-5 膠芽腫を標識する噴霧式新規蛍光プローブの病理学的検討
東京大学大学院医学系研究科 脳神経外科 **北川 陽介** Kitagawa Yosuke

17:45~18:30 **BTP Japanese Oral 5 グリオーマの分子病理 5**
 座長： 慶應義塾大学医学部 脳神経外科 **吉田 一成**
 久留米大学医学部 病理学講座 **杉田 保雄**

J05-1 長期ベバシズマブ治療を行った悪性神経膠腫症例の治療経過と画像所見
 鳥取大学医学部 脳神経外科 **神部 敦司** Kambe Atsushi

J05-2 Bevacizumab non-responderに関する検討
 宮崎大学医学部 脳神経外科 **山下 真治** Yamashita Shinji

J05-3 松果体実質腫瘍の臨床病理学的検討
 埼玉医科大学病院 脳神経外科 **藤巻 高光** Fujimaki Takamitsu

J05-4 中間型松果体実質腫瘍 (PPTID) の組織学的診断に基づいた集学的治療戦略
 東京女子医科大学 脳神経外科 **藍原 康雄** Aihara Yasuo

J05-5 当院におけるヒストテックR-IHCを用いた術中Ki-67染色の経験
 東邦大学医学部医学科 脳神経外科講座 (大森) **榎田 博之** Masuda Hiroyuki

J05-6 グレードII, III神経膠腫における、乏突起膠腫形態診断の分子生物学的特徴
 と臨床的意義についての検討
 慶應義塾大学医学部 脳神経外科 **パレーラ エリル サンディカ** Pareira Eriel Sandika

September 25. (Tue) Room 4 (Ohgi 4F)

13:00~13:10 BTP2018 Opening Remark

BTP2018 President **Takashi Komori**

13:10~13:35 Educational Lecture **Summary of WHO2016**

Chair : Department of Neurosurgery, Nagoya University
Graduate School of Medicine **Toshihiko Wakabayashi**

EL The WHO 2016 CNS Tumor Scheme: A summary and perspective
Department of Pathology, Division of Neuropathology, University of California,
San Francisco (UCSF) **Arie Perry**

13:35~14:15 Special Lecture 3 **Methylation Profiling for Precision Diagnosis of Human Brain Tumors**

Chair : Department of Neurosurgery, Division of Clinical Neuroscience,
Faculty of Medicine, University of Miyazaki **Hideo Takeshima**

SL3 Methylation Profiling for Precision Diagnosis of Human Brain Tumors
Department of Neuropathology and Clinical Cooperation Unit Neuropathology,
University Heidelberg and German Cancer Research Center (DKFZ)
Andreas von Deimling

Sponsored by CHUGAI PHARMACEUTICAL CO., LTD.

14:15~15:05 Symposium 15 **Lower Grade Gliomas in Adults**

Chairs : Anatomic Pathology, Department of Laboratory Medicine
and Pathology, Mayo Clinic **Caterina Giannini**
Department of Clinical Oncology and Neuro-oncology Program,
Hiroshima University Hospital **Kazuhiko Sugiyama**
Department of Neurosurgery, Nagoya University Graduate School of Medicine
Atsushi Natsume

S15-1 Novel, improved grading system for IDH-mutant astrocytomas
Department of Neurosurgery/Neurooncology,
Saitama Medical University International Medical Center
Mitsuaki Shirahata

- S15-2 A mathematical model for predicting the optimal timing of treatment to minimize the malignant transformation rate in WHO grade II diffuse glioma
Department of Neurosurgery, Nagoya University School of Medicine
Kosuke Aoki
- S15-3 Preoperative design of the treatment strategy for lower grade gliomas based on molecular diagnosis by imaging features
Department of Neurosurgery, Keio University School of Medicine
Hikaru Sasaki
- S15-4 PI3 kinase pathway activation to promote malignant progression in oligodendroglial tumor
Department of Neurosurgery, Yokohama City University, Yokohama, Japan
Kensuke Tateishi
- S15-5 7-tesla MR susceptibility-weighted imaging can depict astrocytic and oligodendroglial pathology
Department of Neurosurgery, Brain Research Institute, Niigata University, Niigata, Japan
Manabu Natsumeda

15:30~15:55 Special Lecture 4 Molecular Mechanisms of Glioma Progression and Therapy Resistance
Chair : Division of Brain Tumor Translational Research,
National Cancer Center Research Institute **Koichi Ichimura**

SL4 Molecular Mechanisms of Glioma Progression and Therapy Resistance
Institute of Neuropathology, Heinrich-Heine-University Duesseldorf
Guido Reifenberger

15:55~16:35 Symposium 18 High Grade Gliomas in Adults 1
Chairs : Department of Neuropathology and Clinical Cooperation Unit Neuropathology,
University Heidelberg and German Cancer Research Center (DKFZ)
Andreas von Deimling
Department of Neurosurgery, Fujita Health University School of Medicine
Yuichi Hirose
Department of Neurosurgery, Graduate School of Medical Sciences, Kumamoto University
Akitake Mukasa

S18-1 The ligand dependent EphB4 signaling is anchoring signaling in glioma
Department of Neurosurgery, Kanazawa University **Yosuke Kawahara**

S18-2 ICOSLG-mediated IL-10 producing regulatory T cell expansion promotes progression of glioblastoma multiforme

Department of Neurosurgery, Kansai Medical University, Osaka, Japan
Ryoichi Iwata

S18-3 Olig2 positive Oligodendrocytes lineage cells induce chemo-radioresistant characteristics at the tumor border in glioblastomas

Department of Neurosurgery, Kitasato University School of Medicine
Takuichiro Hide

S18-4 Detailed analysis of mutation change after treatment in glioblastoma

Department of Neurosurgery, Kyorin University Faculty of Medicine
Kuniaki Saito

16:35~17:45 Symposium 21 High Grade Gliomas in Adults 2

Chairs : Institute of Neuropathology, Heinrich-Heine-University Duesseldorf
Guido Reifenberger

Department of Neurosurgery, Kitasato University School of Medicine
Toshihiro Kumabe

Department of Neurosurgery, Graduate School of Medical Science,
Kanazawa University **Mitsutoshi Nakada**

S21-1 Intracranial remote recurrence in IDH mutant gliomas is associated with TP53 mutations and 8q gain

Department of Neurosurgery, Fujita Health University **Shunsuke Nakae**

S21-2 A phase I/IIa clinical trial of Ad-SGE-REIC for malignant glioma

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

S21-3 IDH gene status is associated with pattern of relapse in malignant gliomas

Department of Neurosurgery, Faculty of Medicine, Yamagata University, Yamagata, Japan **Yukihiko Sonoda**

S21-4 An important role of histopathology and immunohistochemistry in immunotherapy against high grade gliomas

Department of Neurosurgery, Kyoto Prefectural University of Medicine Graduate School of Medical Science **Naoya Hashimoto**

- S21-5 MGMT promoter methylation in patients with glioblastoma multiforme: Is methylation-sensitive high-resolution melting superior to methylation-sensitive polymerase chain reaction assay?
Division of Neurosurgery, Department of Clinical Neuroscience,
Faculty of Medicine, University of Miyazaki **Shinji Yamashita**
- S21-6 A subgroup of IDH-mutated astrocytomas with 19q-loss presents oligodendroglioma-like morphology and better prognosis
Department of Neurosurgery, Tokyo Metropolitan Komagome Hospital,
Tokyo, Japan / Department of Neurosurgery, Dokkyo Medical University,
Tochigi, Japan **Ryohei Otani**
- S21-7 Usefulness and pitfalls of 1p/ 19q-codeletion analysis by FISH method in glioblastoma
Department of Neurosurgery, University of Kagoshima, Kagoshima, Japan
Hiroyuki Uchida

17:50~18:30 Evening Seminar 2

Chair : Department of Neurosurgery, Dokkyo University School of Medicine
Keisuke Ueki

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- ES2 Practical application of 1p/19q testing for diagnosis of oligodendroglial tumors
Division of Brain Tumor Translational Research,
National Cancer Center Research Institute **Koichi Ichimura**
Sponsored by Leica Microsystems K.K.