

## 2023年（令和5年） 研究業績

### 共同研究講座・寄付講座等名：脳疾患連携分野研究講座

研究代表者名：市村 幸一

開設の目的・概要 等			脳には、脳腫瘍・脳血管障害・神經障害など様々な疾患が発生する。脳は人間の臓器の中で唯一全摘出も移植もできない、特殊な器官であり、疾患に対する外科的治療には限界がある。また血液脳閂門のため、脳組織に薬剤を到達させることは困難である。本講座は、脳疾患に特化して、様々な病態を研究し、新たな診断方法、治療法を開発することを目的として開設された。	
区分	番号	学位論文	全著者名,論文名,掲載誌名,掲載年;巻(号) : ページ番号	国際共同
英文原著	1		Fujii T, Nakano Y, Hagita D, Onishi N, Endo A, Nakagawa M, Yoshiura T, Otsuka Y, Takeuchi S, Suzuki M, Shimizu Y, Toyooka T, Matsushita Y, Hibiya Y, Tomura S, Kondo A, Wada K, Ichimura K, Tomiyama A. "KLC1-ROS1 Fusion Exerts Oncogenic Properties of Glioma Cells via Specific Activation of JAK-STAT Pathway." <i>Cancers (Basel)</i> . 2023 Dec 19;16(1):9. doi: 10.3390/cancers1610009. PMID: 38201436	
英文原著	2		Sheriff A, Takami H, Takayanagi S, Kitagawa Y, Tanaka S, Ikemura M, Matsuura R, Matsushita Y, Ichimura K, Saito N. "Embryonal tumor with multilayered rosettes arising from the internal auditory canal of an adult: Illustrative case with molecular investigations." <i>Neuropathology</i> . 2023 Nov 2. doi: 10.1111/neup.12951. Online ahead of print. PMID: 37920133	○
英文原著	3		Yamada S, Tanikawa M, Matsushita Y, Fujinami R, Yamada H, Sakomi K, Sakata T, Inagaki H, Yokoo H, Ichimura K, Mase M. "SEGA-like circumscribed astrocytoma in a non-NF1 patient, harboring molecular profile of GBM. A case report." <i>Neuropathology</i> . 2023 Nov 2. doi: 10.1111/neup.12948. Online ahead of print. PMID: 37919875	
英文原著	4		Odate T, Satomi K, Kubo T, Matsushita Y, Ueno T, Kurose A, Shomori K, Nakai T, Watanabe R, Segawa K, Ohshika S, Miyake N, Kudo S, Shimoi T, Kobayashi E, Komiyama M, Yoshimoto S, Nakatani F, Kawai A, Yatabe Y, Kohsaka S, Ichimura K, Ichikawa H, Yoshida A. "Inflammatory Rhabdomyoblastic Tumor: Clinicopathological and Molecular Analysis of 13 Cases." <i>Mod Pathol</i> . 2023 Oct 21:100359. doi: 10.1016/j.modpat.2023.100359. Online ahead of print. PMID: 37871654	
英文原著	5		Hayashi T, Tateishi K, Matsuyama S, Iwashita H, Miyake Y, Oshima A, Homma H, Sasame J, Takabayashi K, Sugino K, Hirata E, Ueda N, Matsushita Y, Kato I, Hayashi H, Nakamura T, Ikegaya N, Takayama Y, Sonoda M, Oka C, Sato M, Isoda M, Kato M, Uchiyama K, Tanaka T, Muramatsu T, Miyake S, Suzuki R, Takadera M, Tatezuki J, Ayabe J, Suenaga J, Matsunaga S, Miyahara K, Manaka H, Murata H, Yokoyama T, Tanaka Y, Shuto T, Ichimura K, Kato S, Yamanaka S, Cahill DP, Fujii S, Shankar GM, Yamamoto T. "Intraoperative integrated diagnostic system for malignant central nervous system tumors." <i>Clin Cancer Res</i> . 2023 Oct 18. doi: 10.1158/1078-0432.CCR-23-1660. Online ahead of print. PMID: 37851071	
英文原著	6		Fukuoka K, Kurihara J, Shofuda T, Kagawa N, Yamasaki K, Ando R, Ishida J, Kanamori M, Kawamura A, Park YS, Kiyotani C, Akai T, Keino D, Miyairi Y, Sasaki A, Hirato J, Inoue T, Nakazawa A, Koh K, Nishikawa R, Date I, Nagane M, Ichimura K, Kanemura Y. "Subtyping of Group 3/4 medulloblastoma as a potential prognostic biomarker among patients treated with reduced dose of craniospinal irradiation: a Japanese Pediatric Molecular Neuro-Oncology Group study." <i>Acta Neuropathol Commun</i> . 2023 Sep 25;11(1):153. doi: 10.1186/s40478-023-01652-4. PMID: 37749662	
英文原著	7		Takami H, Satomi K, Fukuoka K, Nakamura T, Tanaka S, Mukasa A, Saito N, Suzuki T, Yanagisawa T, Sugiyama K, Kanamori M, Kumabe T, Tominaga T, Tamura K, Maehara T, Nonaka M, Asai A, Yokogami K, Takeshima H, Iuchi T, Kobayashi K, Yoshimoto K, Sakai K, Nakazato Y, Matsutani M, Nagane M, Nishikawa R, Ichimura K. "Distinct patterns of copy number alterations may predict poor outcome in central nervous system germ cell tumors." <i>Sci Rep</i> . 2023 Sep 21;13(1):15760. doi: 10.1038/s41598-023-42842-3. PMID: 37735187	
英文原著	8		Kojima N, Kubo T, Mori T, Satomi K, Matsushita Y, Iwata S, Yatabe Y, Ichimura K, Kawai A, Ichikawa H, Yoshida A. "Myxoid liposarcoma with nuclear pleomorphism: a clinicopathological and molecular study." <i>Virchows Arch</i> . 2023 Sep 13. doi: 10.1007/s00428-023-03631-5. Online ahead of print. PMID: 37704823	

英文原著	9	Motoi T, Hirata M, Kukita Y, Satomi K, Tamura H, Adachi S, Matsushita Y, Horiguchi SI, Hishima T, Ikegami M, Okuma T, Tao K, Arakawa A, Ogawa C, Matsuda K, Ichimura K, Nakamura H, Mori T, Yoshida A. "KDM2B-Rearranged Soft-Tissue Sarcomas Expand the Concept of BCOR-Associated Sarcoma." <i>Mod Pathol.</i> 2023 Aug 25;100317. doi: 10.1016/j.modpat.2023.100317. Online ahead of print. PMID: 37634866	
英文原著	10	Kawauchi D, Ohno M, Miyakita Y, Takahashi M, Yanagisawa S, Omura T, Yoshida A, Kubo Y, Igaki H, Ichimura K, Narita Y. "Consulting a neurosurgeon upon initial medical assessment reduces the time to the first surgery and potentially contributes to improved prognosis for glioblastoma patients." <i>Jpn J Clin Oncol.</i> 2023 Nov 5;53(11):1027-1033. doi: 10.1093/jjco/hyad093. Online ahead of print. PMID: 37534529	
英文原著	11	Tao K, Yamazaki F, Kubo T, Sunami K, Kumamoto T, Arakawa A, Sugiyama M, Watanabe Y, Nakajima M, Shirakawa N, Tanimura K, Koyama T, Hirata M, Sudo K, Tanabe N, Watanabe T, Yoshida T, Kitami M, Yoshida A, Yatabe Y, Nakano Y, Ohira M, Kamijo T, Nakazawa A, Kato M, Ichimura K, Kohno T, Yamamoto N, Hishiki T, Ichikawa H, Ogawa C. "Pediatric Precision Medicine at the National Cancer Center Japan: Prospective Genomic Study of Pediatric Patients with Cancer as Part of the TOP-GEAR Project." <i>JCO Precis Oncol.</i> 2023 Jul;7:e2200266. doi: 10.1200/PO.22.00266. PMID: 37410973	
英文原著	12	Miyake Y, Tateishi K, Oshima A, Hongo T, Satomi K, Ichimura K, Kato A, Iwashita H, Utsunomiya D, Yamamoto T. "A case of midbrain germinoma: A literature review for radiographic and clinical features." <i>Neurooncol Adv.</i> 2023 Apr 19;5(1):vdad043. doi: 10.1093/noajnl/vdad043. eCollection 2023 Jan-Dec. PMID: 37215953	
英文原著	13	Irikura T, Fukuoka K, Nakazawa A, Ichimura K, Kurihara J, Koh K. "Molecular characterization of long-term survivors of metastatic medulloblastoma treated with reduced-dose craniospinal irradiation." <i>Childs Nerv Syst.</i> 2023 Apr 25. doi: 10.1007/s00381-023-05971-8. Online ahead of print. PMID: 37185696	
英文原著	14	Fukuoka K, Nakazawa A, Hirato J, Nobusawa S, Itabashi T, Arakawa Y, Mori M, Matsushita Y, Honda S, Tanami Y, Ichimura K, Kurihara J, Koh K. "An infantile pineal embryonal tumor showing pathological features of a CNS ganglioneuroblastoma and the methylation profiling of an atypical teratoid/rhabdoid tumor and SMARCA4 mutation" <i>J Neuropathol Exp Neurol.</i> 2023 Apr 22;nlad033. doi: 10.1093/jnen/nlad033. Online ahead of print. PMID: 37086056	
英文原著	15	Takami H, Grafeo CS, Perry A, Giannini C, Nakazato Y, Saito N, Matsutani M, Nishikawa R, Daniels DJ, Ichimura K. "Impact of tumor markers on diagnosis, treatment and prognosis in CNS germ cell tumors: correlations with clinical practice and histopathology." <i>Brain Tumor Pathol.</i> 2023 Mar 30. doi: 10.1007/s10014-023-00460-x. Online ahead of print. PMID: 36995447	○
英文原著	16	Masui K, Nitta M, Muragaki Y, Kawamata T, Satomi K, Matsushita Y, Yoshida A, Ichimura K, Tsuda M, Tanaka S, Komori T. "A case of "genetically defined" radiation-induced glioma: 29 years after surgery and radiation for pilocytic astrocytoma." <i>Neuropathology.</i> 2023 Mar 22. doi: 10.1111/neup.12903. Online ahead of print. PMID: 36949717	
英文原著	17	Sugino H, Satomi K, Mori T, Mukai Y, Honda-Kitahara M, Matsushita Y, Ichimura K, Narita Y, Yoshida A. "High-grade neuroepithelial tumor with EP300::BCOR fusion and negative BCOR immunohistochemical expression: a case report." <i>Brain Tumor Pathol.</i> 2023 Feb 22. doi: 10.1007/s10014-023-00451-y. Online ahead of print. PMID: 36811792	
英文原著	18	Sugino H, Iwata S, Satomi K, Mori T, Nobusawa S, Nagashima T, Matsushita Y, Yatabe Y, Ichimura K, Kawai A, Yoshida A. "Keratin-positive fibrotic extraskeletal myxoid chondrosarcoma: a close mimic of myoepithelial tumour." <i>Histopathology.</i> 2023 May;82(6):937-945. doi: 10.1111/his.14882. Epub 2023 Feb 27. PMID: 36754860	
英文原著	19	Shimizu Y, Suzuki M, Akiyama O, Ogino I, Matsushita Y, Satomi K, Yanagisawa S, Ohno M, Takahashi M, Miyakita Y, Narita Y, Ichimura K, Kondo A. "Utility of real-time polymerase chain reaction for the assessment of CDKN2A homozygous deletion in adult-type IDH-mutant astrocytoma." <i>Brain Tumor Pathol.</i> 2023 Feb 14. doi: 10.1007/s10014-023-00450-z. Online ahead of print. PMID: 36788155	
英文原著	20	Natsume A, Arakawa Y, Narita Y, Sugiyama K, Hata N, Muragaki Y, Shinozaki N, Kumabe T, Saito R, Motomura K, Mineharu Y, Miyakita Y, Yamasaki F, Matsushita Y, Ichimura K, Ito K, Tachibana M, Kakurai Y, Okamoto N, Asahi T, Nishijima S, Yamaguchi T, Tsubouchi H, Nakamura H, Nishikawa R. "The first-in-human phase I study of a brain-penetrant mutant IDH1 inhibitor DS-1001 in patients with recurrent or progressive IDH1-mutant gliomas." <i>Neuro Oncol.</i> 2023 Feb 14;25(2):326-336. doi: 10.1093/neuonc/noac155. PMID: 35722822	
英文原著	21	Träger M, Schweizer L, Eil? P, Schmid S, Hain EG, Dittmayer C, Onken J, Fukuoka K, Ichimura K, Sch?ller U, D?rsen L, M?ther M, Paulus W, Thomas C, Gutt-Will M, Schucht P, Maragkou T, Schittenhelm J, Eckert F, Niyazi M, Fleischmann D, Dorostkar M, Feyer P, May SA, Moskopp D, Badakhshi H, Radke C, Walter J, Ehret F, Capper D, Kaul D. "Adult intracranial ependymoma - relevance of DNA methylation profiling for diagnosis, prognosis and treatment." <i>Neuro Oncol.</i> 2023 Jul 6;25(7):1286-1298. doi: 10.1093/neuonc/noad030. PMID: 36734226	○

英文原著	22	Okazawa Y, Sugimoto K, Ii Y, Irie T, Kawaguchi M, Kobari A, Momose H, Tsuchiya Y, Amemiya K, Motegi S, Tsukamoto R, Kure K, Honjo K, Ro H, Takahashi R, Kawano S, Kawai M, Ishiyama S, Takahashi M, Kojima Y, Tomiki Y, Arakawa A, Yao T, Satomi K, Matsushita Y, Ichimura K, Sakamoto K. "Local recurrence of submucosal invasive colorectal cancer after endoscopic submucosal dissection revealed by copy number variation." <i>DEN Open.</i> 2023 Jan 31;3(1):e208. doi: 10.1002/deo2.208. eCollection 2023 Apr. PMID: 36734440	
英文原著	23	Kawauchi D, Ohno M, Honda-Kitahara M, Miyakita Y, Takahashi M, Yanagisawa S, Tamura Y, Kikuchi M, Ichimura K, Narita Y. "Clinical characteristics and prognosis of Glioblastoma patients with infratentorial recurrence." <i>BMC Neurol.</i> 2023 Jan 7;23(1):9. doi: 10.1186/s12883-022-03047-9. PMID: 36609238	
英文原著	24	Watakabe M, Fukuoka K, Ihara Y, Hara T, Kudo K, Tamura M, Ichimura K, Tanami Y, Kawashima H, Iwama I, Nakazawa A, Mizuta K, Koh K. "Optimal timing of liver transplantation for liver cirrhosis caused by sclerosing cholangitis in a patient with Langerhans cell histiocytosis: a case report." <i>Int J Hematol</i> 2023 May;117(5):759-764. doi: 10.1007/s12185-022-03500-y. Epub 2022 Dec 5. PMID: 36469185	
区分	番号	全著者名,論文名,掲載誌名,掲載年;巻(号):ページ番号	国際共同
英文総説	1	Otani Y, Satomi K, Suruga Y, Ishida J, Fujii K, Ichimura K, Date I. "Utility of genome-wide DNA methylation profiling for pediatric-type diffuse gliomas." <i>Brain Tumor Pathol.</i> 2023 Apr 1. doi: 10.1007/s10014-023-00457-6. Online ahead of print. PMID: 37004583	
区分	番号	全著者名,論文名,掲載誌名,掲載年;巻(号):ページ番号	国際共同
和文総説	1	市村幸一 : ピックアップ海外文献「Takami H, et al. "Transcriptome and methylome analysis of CNS germ cell tumor finds its cell-of-origin in embryogenesis and reveals shared similarities with testicular counterparts."」 <i>脳神経外科速報</i> vol.33 (3) 2023	
和文総説	2	市村幸一 : 「脳腫瘍診断技術と保険収載」 <i>中外医学社 Clinical Neuroscience</i> 2023 41(4):33-34.	
和文総説	3	市村幸一 : 「WHO 脳腫瘍分類第5版 (WHO CNS5) 改訂のポイントと現状」 <i>医学書院 脳神経外科 No Shinkei Geka.</i> 2023 Mar;51(2):349-363. doi: 10.11477/mf.1436204751. Japanese. PMID: 37055056	
区分	番号	全著者名,書籍名,出版社名,出版年,ページ番号等	国際共同
和文著書	1	市村幸一 : 「総論3 脳腫瘍発生の分子生物学」in 「脳腫瘍臨床病理カラーアトラス」 第5版 医学書院、東京、2023	
和文著書	2	市村幸一 : 分担執筆「II. 脳腫瘍の分子診断」in 「臨床・病理 脳腫瘍取扱い規約」第5版 日本脳神経外科学会・日本病理学会編	
区分	番号	発表者名,発表タイトル(題目・演題・課題等),学会名,場所,発表年月日等	国際共同
国内学会発表	1	「初発膠芽腫に対する予後予測能に基づくMGMT メチル化判定基準の確立～最終報告」、市村幸一、第41回日本脳腫瘍学会学術集会、月岡温泉、新潟、2023年12月5日	
区分	番号	講演者名,講演タイトル,学会名,場所,発表年月日等	国際共同
特別講演・招待講演	1	A Practical Implementation of Methylation Classification in the Central Diagnostic Review of Pediatric Brain Tumors. Population Genomics Summit 2023, Pan Pacific Hotel Singapore, Singapore, 2023年9月26日	
特別講演・招待講演	2	A Practical Implementation of Methylation Classification in the Central Diagnostic Review of Pediatric Brain Tumors. The 23rd International Conference on Brain Tumor Research and Therapy, Kiawah Island, South Carolina, 2023年3月28日	