# Brent A Orr

List of Publications by Year
in descending order



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|---|---|---|---|
| 89 papers | 4,865 citations | 117625 34 h-index | 106344 65 g-index |
| 94 all docs | 94 docs citations | 94 times ranked | 7349 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | New Brain Tumor Entities Emerge from Molecular Classification of CNS-PNETs. Cell, 2016, 164, 1060-1072. | 28.9 | 702 |
| 2 | Vismodegib Exerts Targeted Efficacy Against Recurrent Sonic Hedgehogâ€“Subgroup Medulloblastoma: Results From Phase II Pediatric Brain Tumor Consortium Studies PBTC-025B and PBTC-032. Journal of Clinical Oncology, 2015, 33, 2646-2654. | 1.6 | 368 |
| 3 | cIMPACTâ€NOW update 6: new entity and diagnostic principle recommendations of the cIMPACTâ€Utrecht meeting on future CNS tumor classification and grading. Brain Pathology, 2020, 30, 844-856. | 4.1 | 363 |
| 4 | Active medulloblastoma enhancers reveal subgroup-specific cellular origins. Nature, 2016, 530, 57-62. | 27.8 | 318 |
| 5 | Resolving medulloblastoma cellular architecture by single-cell genomics. Nature, 2019, 572, 74-79. | 27.8 | 273 |
| 6 | Long Interspersed Element-1 Protein Expression Is a Hallmark of Many Human Cancers. American Journal of Pathology, 2014, 184, 1280-1286. | 3.8 | 250 |
| 7 | Risk-adapted therapy for young children with medulloblastoma (SJYC07): therapeutic and molecular outcomes from a multicentre, phase 2 trial. Lancet Oncology, The, 2018, 19, 768-784. | 10.7 | 151 |
| 8 | St. Jude Cloud: A Pediatric Cancer Genomic Data-Sharing Ecosystem. Cancer Discovery, 2021, 11, 1082-1099. | 9.4 | 109 |
| 9 | Outcomes by Clinical and Molecular Features in Children With Medulloblastoma Treated With Risk-Adapted Therapy: Results of an International Phase III Trial (SJMB03). Journal of Clinical Oncology, 2021, 39, 822-835. | 1.6 | 106 |
| 10 | Irreversible growth plate fusions in children with medulloblastoma treated with a targeted hedgehog pathway inhibitor. Oncotarget, 2017, 8, 69295-69302. | 1.8 | 99 |
| 11 | The molecular landscape of ETMR at diagnosis and relapse. Nature, 2019, 576, 274-280. | 27.8 | 94 |
| 12 | Germline Elongator mutations in Sonic Hedgehog medulloblastoma. Nature, 2020, 580, 396-401. | 27.8 | 94 |
| 13 | Genomes for Kids: The Scope of Pathogenic Mutations in Pediatric Cancer Revealed by Comprehensive DNA and RNA Sequencing. Cancer Discovery, 2021, 11, 3008-3027. | 9.4 | 88 |
| 14 | Pathology, diagnostics, and classification of medulloblastoma. Brain Pathology, 2020, 30, 664-678. | 4.1 | 68 |
| 15 | Disrupting LIN28 in atypical teratoid rhabdoid tumors reveals the importance of the mitogen activated protein kinase pathway as a therapeutic target. Oncotarget, 2015, 6, 3165-3177. | 1.8 | 66 |
| 16 | Alisertib is active as single agent in recurrent atypical teratoid rhabdoid tumors in 4 children. Neuro-Oncology, 2015, 17, 882-888. | 1.2 | 64 |
| 17 | Advances in the classification of pediatric brain tumors through DNA methylation profiling: From research tool to frontline diagnostic. Cancer, 2018, 124, 4168-4180. | 4.1 | 64 |
| 18 | Serial assessment of measurable residual disease in medulloblastoma liquid biopsies. Cancer Cell, 2021, 39, 1519-1530.e4. | 16.8 | 64 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Molecular grouping and outcomes of young children with newly diagnosed ependymoma treated on the multi-institutional SJYC07 trial. Neuro-Oncology, 2019, 21, 1319-1330. | 1.2 | 63 |
| 20 | Inactivation of Ezh2 Upregulates Gfi1 and Drives Aggressive Myc-Driven Group 3 Medulloblastoma. Cell Reports, 2017, 18, 2907-2917. | 6.4 | 61 |
| 21 | Genomic analysis demonstrates that histologically-defined astroblastomas are molecularly heterogeneous and that tumors with MN1 rearrangement exhibit the most favorable prognosis. Acta Neuropathologica Communications, 2019, 7, 42. | 5.2 | 57 |
| 22 | Alternative lengthening of telomeres, ATRX loss and H3â€K27M mutations in histologically defined pilocytic astrocytoma with anaplasia. Brain Pathology, 2019, 29, 126-140. | 4.1 | 54 |
| 23 | A clinicopathologic study of diencephalic pediatric low-grade gliomas with BRAF V600 mutation. Acta Neuropathologica, 2015, 130, 575-585. | 7.7 | 50 |
| 24 | Molecular subgrouping of primary pineal parenchymal tumors reveals distinct subtypes correlated with clinical parameters and genetic alterations. Acta Neuropathologica, 2020, 139, 243-257. | 7.7 | 50 |
| 25 | Pediatric bithalamic gliomas have a distinct epigenetic signature and frequent EGFR exon 20 insertions resulting in potential sensitivity to targeted kinase inhibition. Acta Neuropathologica, 2020, 139, 1071-1088. | 7.7 | 50 |
| 26 | Oncogenic KRAS promotes malignant brain tumors in zebrafish. Molecular Cancer, 2015, 14, 18. | 19.2 | 48 |
| 27 | mTORC1-Mediated Inhibition of 4EBP1 Is Essential for Hedgehog Signaling-Driven Translation and Medulloblastoma. Developmental Cell, 2017, 43, 673-688.e5. | 7.0 | 48 |
| 28 | Retinoblastoma from human stem cell-derived retinal organoids. Nature Communications, 2021, 12, 4535. | 12.8 | 48 |
| 29 | Patient-derived orthotopic xenografts of pediatric brain tumors: a St. Jude resource. Acta Neuropathologica, 2020, 140, 209-225. | 7.7 | 45 |
| 30 | Subsequent neoplasms in survivors of childhood central nervous system tumors: risk after modern multimodal therapy. Neuro-Oncology, 2015, 17, 448-456. | 1.2 | 44 |
| 31 | An update on the central nervous system manifestations of Liâ€“Fraumeni syndrome. Acta Neuropathologica, 2020, 139, 669-687. | 7.7 | 44 |
| 32 | Clinical and molecular heterogeneity of pineal parenchymal tumors: a consensus study. Acta Neuropathologica, 2021, 141, 771-785. | 7.7 | 44 |
| 33 | Pineoblastomaâ€”The Experience at St. Jude Children's Research Hospital. Neurosurgery, 2017, 81, 120-128. | 1.1 | 43 |
| 34 | Clinical Outcomes and Patient-Matched Molecular Composition of Relapsed Medulloblastoma. Journal of Clinical Oncology, 2021, 39, 807-821. | 1.6 | 40 |
| 35 | Gliomatosis cerebri in children shares molecular characteristics with other pediatric gliomas. Acta Neuropathologica, 2016, 131, 299-307. | 7.7 | 38 |
| 36 | Risk-adapted therapy and biological heterogeneity in pineoblastoma: integrated clinico-pathological analysis from the prospective, multi-center SJMB03 and SJYC07 trials. Acta Neuropathologica, 2020, 139, 259-271. | 7.7 | 36 |

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|---|---|---|---|
| 37 | Relevance of Molecular Groups in Children with Newly Diagnosed Atypical Teratoid Rhabdoid Tumor: Results from Prospective St. Jude Multi-institutional Trials. Clinical Cancer Research, 2021, 27, 2879-2889. | 7.0 | 35 |
| 38 | Low-grade spinal glioneuronal tumors with BRAF gene fusion and 1p deletion but without leptomeningeal dissemination. Acta Neuropathologica, 2017, 134, 159-162. | 7.7 | 33 |
| 39 | Biology and grading of pleomorphic xanthoastrocytomaâ€"what have we learned about it?. Brain Pathology, 2021, 31, 20-32. | 4.1 | 32 |
| 40 | Comprehensive molecular characterization of pediatric radiation-induced high-grade glioma. Nature Communications, 2021, 12, 5531. | 12.8 | 31 |
| 41 | Cervicomedullary tumors in children. Journal of Neurosurgery: Pediatrics, 2015, 16, 357-366. | 1.3 | 29 |
| 42 | Patient-derived models recapitulate heterogeneity of molecular signatures and drug response in pediatric high-grade glioma. Nature Communications, 2021, 12, 4089. | 12.8 | 27 |
| 43 | Lorlatinib in a Child with ALK-Fusionâ€"Positive High-Grade Glioma. New England Journal of Medicine, 2021, 385, 761-763. | 27.0 | 27 |
| 44 | Malignant rhabdoid tumors originating within and outside the central nervous system are clinically and molecularly heterogeneous. Acta Neuropathologica, 2018, 136, 315-326. | 7.7 | 26 |
| 45 | Bithalamic gliomas may be molecularly distinct from their unilateral highâ€grade counterparts. Brain Pathology, 2018, 28, 112-120. | 4.1 | 26 |
| 46 | Phase I study of 5-fluorouracil in children and young adults with recurrent ependymoma. Neuro-Oncology, 2015, 17, 1620-1627. | 1.2 | 24 |
| 47 | The myogenesis program drives clonal selection and drug resistance in rhabdomyosarcoma. Developmental Cell, 2022, 57, 1226-1240.e8. | 7.0 | 24 |
| 48 | Unbiased Metabolic Profiling Predicts Sensitivity of High MYC-Expressing Atypical Teratoid/Rhabdoid Tumors to Glutamine Inhibition with 6-Diazo-5-Oxo-L-Norleucine. Clinical Cancer Research, 2019, 25, 5925-5936. | 7.0 | 22 |
| 49 | Malignant brainstem tumors in children, excluding diffuse intrinsic pontine gliomas. Journal of Neurosurgery: Pediatrics, 2016, 17, 57-65. | 1.3 | 20 |
| 50 | Central Nervous System-type Neuroepithelial Tumors and Tumor-like Proliferations Developing in the Gynecologic Tract and Pelvis. American Journal of Surgical Pathology, 2018, 42, 1429-1444. | 3.7 | 18 |
| 51 | The TORC1/2 inhibitor TAK228 sensitizes atypical teratoid rhabdoid tumors to cisplatin-induced cytotoxicity. Neuro-Oncology, 2017, 19, 1361-1371. | 1.2 | 17 |
| 52 | Mouse medulloblastoma driven by CRISPR activation of cellular Myc. Scientific Reports, 2018, 8, 8733. | 3.3 | 17 |
| 53 | Surgical and molecular considerations in the treatment of pediatric thalamopeduncular tumors. Journal of Neurosurgery: Pediatrics, 2017, 20, 247-255. | 1.3 | 16 |
| 54 | Functional loss of a noncanonical BCORâ€"PRC1.1 complex accelerates SHH-driven medulloblastoma formation. Genes and Development, 2020, 34, 1161-1176. | 5.9 | 16 |

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|---|---|---|---|
| 55 | Enophthalmos and Choroidal Atrophy after Intraophthalmic Artery Chemotherapy for Retinoblastoma. Ophthalmology, 2015, 122, 435-437. | 5.2 | 14 |
| 56 | YAP1-FAM118B Fusion Defines a Rare Subset of Childhood and Young Adulthood Meningiomas. American Journal of Surgical Pathology, 2021, 45, 329-340. | 3.7 | 14 |
| 57 | Primary cilia control translation and the cell cycle in medulloblastoma. Genes and Development, 2022, 36, 737-751. | 5.9 | 14 |
| 58 | Atypical teratoid/rhabdoid tumor (ATRT) arising from the 3rd cranial nerve in infants: a clinical-radiological entity?. Journal of Neuro-Oncology, 2015, 124, 175-183. | 2.9 | 12 |
| 59 | Marked functional recovery and imaging response of refractory optic pathway glioma to BRAFV600E inhibitor therapy: a report of two cases. Child's Nervous System, 2018, 34, 605-610. | 1.1 | 12 |
| 60 | Rapid and fulminant leptomeningeal spread following radiotherapy in diffuse intrinsic pontine glioma. Pediatric Blood and Cancer, 2017, 64, e26416. | 1.5 | 11 |
| 61 | Multiplatform Molecular Profiling Reveals Epigenomic Intratumor Heterogeneity in Ependymoma. Cell Reports, 2020, 30, 1300-1309.e5. | 6.4 | 11 |
| 62 | Molecular Pathways: Not a Simple Tubeâ€"The Many Functions of Blood Vessels. Clinical Cancer Research, 2015, 21, 18-23. | 7.0 | 10 |
| 63 | Preclinical Modeling of Image-Guided Craniospinal Irradiation for Very-High-Risk Medulloblastoma. International Journal of Radiation Oncology Biology Physics, 2019, 103, 728-737. | 0.8 | 10 |
| 64 | An ABC Transporter Drives Medulloblastoma Pathogenesis by Regulating Sonic Hedgehog Signaling. Cancer Research, 2020, 80, 1524-1537. | 0.9 | 10 |
| 65 | NHERF1/EBP50 and NF2 as diagnostic markers for choroid plexus tumors. Acta Neuropathologica Communications, 2016, 4, 55. | 5.2 | 9 |
| 66 | De novo primary central nervous system pure erythroid leukemia/sarcoma with t(1;16)(p31;q24) NFIA/CBFA2T3 translocation. Haematologica, 2020, 105, e194-e197. | 3.5 | 9 |
| 67 | Prognostic Relevance of Treatment Failure Patterns in Pediatric High-Grade Glioma: Is There a Role for a Revised Failure Classification System?. International Journal of Radiation Oncology Biology Physics, 2017, 99, 450-458. | 0.8 | 8 |
| 68 | Methylation profiling reveals novel molecular classes of rhabdomyosarcoma. Scientific Reports, 2021, 11, 22213. | 3.3 | 8 |
| 69 | WNT-activated embryonal tumors of the pineal region: ectopic medulloblastomas or a novel pineoblastoma subgroup?. Acta Neuropathologica, 2020, 140, 595-597. | 7.7 | 7 |
| 70 | Phase II study of alisertib as a single agent for treating recurrent or progressive atypical teratoid/rhabdoid tumor. Neuro-Oncology, 0, , . | 1.2 | 7 |
| 71 | H3 K27M Mutations in Thalamic Pilocytic Astrocytomas with Anaplasia. World Neurosurgery, 2019, 124, 87-92. | 1.3 | 6 |
| 72 | DNA Methylation Profiling Reveals Prognostically Significant Groups in Pediatric Adrenocortical Tumors: A Report From the International Pediatric Adrenocortical Tumor Registry. JCO Precision Oncology, 2019, 3, 1-21. | 3.0 | 6 |

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|---|---|---|---|
| 73 | Outcome and molecular analysis of young children with choroid plexus carcinoma treated with non-myeloablative therapy: results from the SJYC07 trial. Neuro-Oncology Advances, 2021, 3, vdaa168. | 0.7 | 6 |
| 74 | Oncogenic GOPC-ROS1 Fusion Identified in a Congenital Glioblastoma Case. Journal of Pediatric Hematology/Oncology, 2020, 42, e813-e818. | 0.6 | 6 |
| 75 | Treatment of pediatric highâ€grade central nervous system tumors with highâ€dose methotrexate in combination with multiagent chemotherapy: A singleâ€institution experience. Pediatric Blood and Cancer, 2020, 67, e28119. | 1.5 | 5 |
| 76 | Molecular classification of a complex structural rearrangement of the RB1 locus in an infant with sporadic, isolated, intracranial, sellar region retinoblastoma. Acta Neuropathologica Communications, 2021, 9, 61. | 5.2 | 5 |
| 77 | Phase I study using crenolanib to target PDGFR kinase in children and young adults with newly diagnosed DIPG or recurrent high-grade glioma, including DIPG. Neuro-Oncology Advances, 2021, 3, vdab179. | 0.7 | 5 |
| 78 | Pre-operative embolization for staged treatment of infantile choroid plexus papilloma. Child's Nervous System, 2022, 38, 429-433. | 1.1 | 4 |
| 79 | Phase II study of alisertib as a single agent in recurrent or progressive atypical teratoid rhabdoid tumors.. Journal of Clinical Oncology, 2020, 38, 10542-10542. | 1.6 | 4 |
| 80 | Revised clinical and molecular risk strata define the incidence and pattern of failure in medulloblastoma following risk-adapted radiotherapy and dose-intensive chemotherapy: results from a phase III multi-institutional study. Neuro-Oncology, 2022, 24, 1166-1175. | 1.2 | 2 |
| 81 | MEDB-78. Unified rhombic lip origins of Group 3 and Group 4 medulloblastoma. Neuro-Oncology, 2022, 24, i124-i125. | 1.2 | 1 |
| 82 | ATRT-22. Outcomes for children with recurrent atypical teratoid rhabdoid tumor: A single institution study with updated molecular and germline analysis. Neuro-Oncology, 2022, 24, i8-i8. | 1.2 | 1 |
| 83 | PM-05 * TUMOR LOCATION REMODELS TRANSCRIPTOMIC PROFILES IN A PEDIATRIC MEDULLOBLASTOMA XENOGRAFT. Neuro-Oncology, 2015, 17, iii32-iii32. | 1.2 | 0 |
| 84 | Abstract 642: Genomes for Kids: Comprehensive DNA and RNA sequencing defining the scope of actionable mutations in pediatric cancer. , 2021, , . | | 0 |
| 85 | OR02-1 DNA Methylation Profiling in Pediatric Adrenocortical Tumors Reveals Distinct Methylation Signatures with Prognostic Significance: A Report from the International Pediatric Adrenocortical Tumor Registry. Journal of the Endocrine Society, 2019, 3, . | 0.2 | 0 |
| 86 | ATPâ€dependent efflux transporter ABCC4 is a positive regulator of the Sonic Hedgehog signaling pathway. FASEB Journal, 2019, 33, 675.19. | 0.5 | 0 |
| 87 | BIOM-36. SERIAL ASSESSMENT OF MEASURABLE RESIDUAL DISEASE IN MEDULLOBLASTOMA LIQUID BIOPSIES. Neuro-Oncology, 2021, 23, vi18-vi19. | 1.2 | 0 |
| 88 | EPCO-26. INTEGRATIVE MULTI-OMICS IDENTIFIES CONVERGING DEVELOPMENTAL ORIGINS OF DISTINCT MEDULLOBLASTOMA SUBGROUPS. Neuro-Oncology, 2021, 23, vi7-vi7. | 1.2 | 0 |
| 89 | MEDB-42. GermlineElp1 deficiency promotes genomic instability and survival of granule neuron progenitors primed for SHH medulloblastoma pathogenesis. Neuro-Oncology, 2022, 24, i115-i115. | 1.2 | 0 |