

# David R Raleigh

## List of Publications by Year in descending order

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91  
papers

4,988  
citations

117625

34  
h-index

98798

67  
g-index

95  
all docs

95  
docs citations

95  
times ranked

7144  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Tight Junction Pore and Leak Pathways: A Dynamic Duo. <i>Annual Review of Physiology</i> , 2011, 73, 283-309.   | 13.1 | 720       |
| 2  | Caveolin-1-dependent occludin endocytosis is required for TNF-induced tight junction regulation in vivo. <i>Journal of Cell Biology</i> , 2010, 189, 111-126.   | 5.2  | 390       |
| 3  | Epithelial Myosin Light Chain Kinase Activation Induces Mucosal Interleukin-13 Expression to Alter Tight Junction Ion Selectivity. <i>Journal of Biological Chemistry</i> , 2010, 285, 12037-12046.                                   | 3.4  | 227       |
| 4  | MLCK-dependent exchange and actin binding region-dependent anchoring of ZO-1 regulate tight junction barrier function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 8237-8241. | 7.1  | 218       |
| 5  | Machine learning algorithms for outcome prediction in (chemo)radiotherapy: An empirical comparison of classifiers. <i>Medical Physics</i> , 2018, 45, 3449-3459.  | 3.0  | 214       |
| 6  | Occludin S408 phosphorylation regulates tight junction protein interactions and barrier function. <i>Journal of Cell Biology</i> , 2011, 193, 565-582.  | 5.2  | 210       |
| 7  | DNA methylation profiling to predict recurrence risk in meningioma: development and validation of a nomogram to optimize clinical management. <i>Neuro-Oncology</i> , 2019, 21, 901-910.  | 1.2  | 184       |
| 8  | Targeted next-generation sequencing of pediatric neuro-oncology patients improves diagnosis, identifies pathogenic germline mutations, and directs targeted therapy. <i>Neuro-Oncology</i> , 2017, 19, now254.                        | 1.2  | 155       |
| 9  | DNA damage-induced cytotoxicity is mediated by the cooperative interaction of phospho-NF- $\kappa$ B p50 and a single nucleotide in the I $\kappa$ B-site. <i>Nucleic Acids Research</i> , 2013, 41, 764-774.                         | 14.5 | 153       |
| 10 | How the Ciliary Membrane Is Organized Inside-Out to Communicate Outside-In. <i>Current Biology</i> , 2018, 28, R421-R434.   | 3.9  | 123       |
| 11 | Pediatric high-grade glioma: current molecular landscape and therapeutic approaches. <i>Journal of Neuro-Oncology</i> , 2017, 134, 541-549.   | 2.9  | 109       |
| 12 | Advances in multidisciplinary therapy for meningiomas. <i>Neuro-Oncology</i> , 2019, 21, i18-i31.   | 1.2  | 102       |
| 13 | Somatostatin receptor 2a is a more sensitive diagnostic marker of meningioma than epithelial membrane antigen. <i>Acta Neuropathologica</i> , 2015, 130, 441-443.   | 7.7  | 100       |
| 14 | Cilia-Associated Oxysterols Activate Smoothed. <i>Molecular Cell</i> , 2018, 72, 316-327.e5.  | 9.7  | 100       |
| 15 | Comprehensive Molecular Profiling Identifies FOXM1 as a Key Transcription Factor for Meningioma Proliferation. <i>Cell Reports</i> , 2018, 22, 3672-3683.   | 6.4  | 95        |
| 16 | Meningioma DNA methylation groups identify biological drivers and therapeutic vulnerabilities. <i>Nature Genetics</i> , 2022, 54, 649-659.  | 21.4 | 93        |
| 17 | A molecularly integrated grade for meningioma. <i>Neuro-Oncology</i> , 2022, 24, 796-808.   | 1.2  | 83        |
| 18 | CRISPRi-based radiation modifier screen identifies long non-coding RNA therapeutic targets in glioma. <i>Genome Biology</i> , 2020, 21, 83.   | 8.8  | 76        |

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|----|--|------|-----------|
| 19 | Misactivation of Hedgehog signaling causes inherited and sporadic cancers. <i>Journal of Clinical Investigation</i> , 2019, 129, 465-475.  | 8.2  | 72        |
| 20 | Temozolomide Treatment Induces lncRNA MALAT1 in an NF- $\kappa$ B and p53 Codependent Manner in Glioblastoma. <i>Cancer Research</i> , 2019, 79, 2536-2548.  | 0.9  | 71        |
| 21 | Integrated models incorporating radiologic and radiomic features predict meningioma grade, local failure, and overall survival. <i>Neuro-Oncology Advances</i> , 2019, 1, vdz011.  | 0.7  | 64        |
| 22 | Meningiomas With Rhabdoid Features Lacking Other Histologic Features of Malignancy: A Study of 44 Cases and Review of the Literature. <i>Journal of Neuropathology and Experimental Neurology</i> , 2016, 75, 44-52.                               | 1.7  | 63        |
| 23 | Molecular targets and mechanisms of radiosensitization using DNA damage response pathways. <i>Future Oncology</i> , 2013, 9, 219-233.  | 2.4  | 62        |
| 24 | Multiplatform genomic profiling and magnetic resonance imaging identify mechanisms underlying intratumor heterogeneity in meningioma. <i>Nature Communications</i> , 2020, 11, 4803.   | 12.8 | 56        |
| 25 | Stereotactic Body Radiation Therapy of Adrenal Metastases: A Pooled Meta-Analysis and Systematic Review of 39 Studies with 1006 Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020, 107, 48-61.                   | 0.8  | 55        |
| 26 | Hedgehog signaling drives medulloblastoma growth via CDK6. <i>Journal of Clinical Investigation</i> , 2017, 128, 120-124.  | 8.2  | 55        |
| 27 | Histopathological features predictive of local control of atypical meningioma after surgery and adjuvant radiotherapy. <i>Journal of Neurosurgery</i> , 2018, 130, 1-8.  | 1.6  | 54        |
| 28 | Histopathologic review of pineal parenchymal tumors identifies novel morphologic subtypes and prognostic factors for outcome. <i>Neuro-Oncology</i> , 2017, 19, 78-88.   | 1.2  | 51        |
| 29 | p50 (NF- $\kappa$ B1) Is an Effector Protein in the Cytotoxic Response to DNA Methylation Damage. <i>Molecular Cell</i> , 2011, 44, 785-796.   | 9.7  | 49        |
| 30 | Mouse models of glioblastoma for the evaluation of novel therapeutic strategies. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab100.  | 0.7  | 47        |
| 31 | Recurrent KBTBD4 small in-frame insertions and absence of DROSHA deletion or DICER1 mutation differentiate pineal parenchymal tumor of intermediate differentiation (PPTID) from pineoblastoma. <i>Acta Neuropathologica</i> , 2019, 137, 851-854. | 7.7  | 45        |
| 32 | The impact of histopathology and NAB2-STAT6 fusion subtype in classification and grading of meningeal solitary fibrous tumor/hemangiopericytoma. <i>Acta Neuropathologica</i> , 2019, 137, 307-319.  | 7.7  | 44        |
| 33 | Meningioma metastases: incidence and proposed screening paradigm. <i>Journal of Neurosurgery</i> , 2020, 132, 1447-1455.   | 1.6  | 41        |
| 34 | Surgical outcomes after reoperation for recurrent skull base meningiomas. <i>Journal of Neurosurgery</i> , 2019, 130, 876-883.   | 1.6  | 38        |
| 35 | Presenting Symptoms and Prognostic Factors for Symptomatic Outcomes Following Resection of Meningioma. <i>World Neurosurgery</i> , 2018, 111, e149-e159.   | 1.3  | 37        |
| 36 | Synthesis and Initial Biological Evaluation of Boron-Containing Prostate-Specific Membrane Antigen Ligands for Treatment of Prostate Cancer Using Boron Neutron Capture Therapy. <i>Molecular Pharmaceutics</i> , 2019, 16, 3831-3841.             | 4.6  | 36        |

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|----|---|-----|-----------|
| 37 | A National Radiation Oncology Medical Student Clerkship Survey: Didactic Curricular Components Increase Confidence in Clinical Competency. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 51-56.        | 0.8 | 34        |
| 38 | WHO Grade I Meningioma Recurrence: Identifying High Risk Patients Using Histopathological Features and the MIB-1 Index. <i>Frontiers in Oncology</i> , 2020, 10, 1522.  | 2.8 | 33        |
| 39 | Preoperative and postoperative prediction of long-term meningioma outcomes. <i>PLoS ONE</i> , 2018, 13, e0204161.   | 2.5 | 31        |
| 40 | Parameters influencing local control of meningiomas treated with radiosurgery. <i>Journal of Neuro-Oncology</i> , 2016, 128, 357-364.   | 2.9 | 30        |
| 41 | The Meningioma Enhancer Landscape Delineates Novel Subgroups and Drives Druggable Dependencies. <i>Cancer Discovery</i> , 2020, 10, 1722-1741.  | 9.4 | 30        |
| 42 | Surgical Resection and Interstitial Iodine-125 Brachytherapy for High-Grade Meningiomas: A 25-Year Series. <i>Neurosurgery</i> , 2017, 80, 409-416.   | 1.1 | 27        |
| 43 | Salvage therapy outcomes for atypical meningioma. <i>Journal of Neuro-Oncology</i> , 2018, 138, 425-433.  | 2.9 | 25        |
| 44 | ATRX regulates glial identity and the tumor microenvironment in IDH-mutant glioma. <i>Genome Biology</i> , 2021, 22, 311.   | 8.8 | 25        |
| 45 | Case-based review: pediatric medulloblastoma. <i>Neuro-Oncology Practice</i> , 2017, 4, 138-150.  | 1.6 | 22        |
| 46 | Recurrent non-canonical histone H3 mutations in spinal cord diffuse gliomas. <i>Acta Neuropathologica</i> , 2019, 138, 877-881.   | 7.7 | 21        |
| 47 | Clinical, radiological, and histopathological predictors for long-term prognosis after surgery for atypical meningiomas. <i>Acta Neurochirurgica</i> , 2019, 161, 1647-1656.  | 1.7 | 21        |
| 48 | Management of Chordoma and Chondrosarcoma with Fractionated Stereotactic Radiotherapy. <i>Frontiers in Surgery</i> , 2017, 4, 35.   | 1.4 | 20        |
| 49 | Sterol and oxysterol synthases near the ciliary base activate the Hedgehog pathway. <i>Journal of Cell Biology</i> , 2021, 220, .   | 5.2 | 20        |
| 50 | Stereotactic Radiosurgery to More Than 10 Brain Metastases: Evidence to Support the Role of Radiosurgery for Ideal Hippocampal Sparing in the Treatment of Multiple Brain Metastases. <i>World Neurosurgery</i> , 2020, 135, e174-e180. | 1.3 | 19        |
| 51 | A Prognostic Gene-Expression Signature and Risk Score for Meningioma Recurrence After Resection. <i>Neurosurgery</i> , 2021, 88, 202-210.   | 1.1 | 19        |
| 52 | Petrous Face Meningiomas: Classification, Clinical Syndromes, and Surgical Outcomes. <i>World Neurosurgery</i> , 2018, 114, e1266-e1274.  | 1.3 | 17        |
| 53 | The Management of Central Neurocytoma. <i>Neurosurgery Clinics of North America</i> , 2015, 26, 45-56.  | 1.7 | 16        |
| 54 | Reirradiation of recurrent high-grade glioma and development of prognostic scores for progression and survival. <i>Neuro-Oncology Practice</i> , 2019, 6, 364-374.  | 1.6 | 16        |

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|----|---|-----|-----------|
| 55 | Efficacy and Safety of Stereotactic Radiosurgery for Brainstem Metastases. <i>JAMA Oncology</i> , 2021, 7, 1033.  | 7.1 | 16        |
| 56 | Educational Impact of a Structured Radiation Oncology Clerkship Curriculum: An Interinstitutional Comparison. <i>Journal of the American College of Radiology</i> , 2017, 14, 96-102.   | 1.8 | 15        |
| 57 | S-phase-dependent p50/NF- $\kappa$ B1 phosphorylation in response to ATR and replication stress acts to maintain genomic stability. <i>Cell Cycle</i> , 2015, 14, 566-576.  | 2.6 | 14        |
| 58 | Preoperative Dural Contact and Recurrence Risk After Surgical Cavity Stereotactic Radiosurgery for Brain Metastases: New Evidence in Support of Consensus Guidelines. <i>Advances in Radiation Oncology</i> , 2019, 4, 458-465.                         | 1.2 | 14        |
| 59 | Radiation Oncology Fourth-Year Medical Student Clerkships: A Targeted Needs Assessment. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 85, 296-297.   | 0.8 | 13        |
| 60 | Survival after chemotherapy and stem cell transplant followed by delayed craniospinal irradiation is comparable to upfront craniospinal irradiation in pediatric embryonal brain tumor patients. <i>Journal of Neuro-Oncology</i> , 2017, 131, 359-368. | 2.9 | 13        |
| 61 | Patient- and treatment-specific predictors of genitourinary function after high-dose-rate monotherapy for favorable prostate cancer. <i>Brachytherapy</i> , 2015, 14, 795-800.  | 0.5 | 12        |
| 62 | Resection Cavity Contraction Effects in the Use of Radioactive Sources (1-25 versus Cs-131) for Intra-Operative Brain Implants. <i>Cureus</i> , 2018, 10, e2079.  | 0.5 | 12        |
| 63 | Multiplatform Molecular Profiling Reveals Epigenomic Intratumor Heterogeneity in Ependymoma. <i>Cell Reports</i> , 2020, 30, 1300-1309.e5.  | 6.4 | 11        |
| 64 | Sterol regulation of developmental and oncogenic Hedgehog signaling. <i>Biochemical Pharmacology</i> , 2022, 196, 114647.   | 4.4 | 11        |
| 65 | Clinical Applications of Quantitative 3-Dimensional MRI Analysis for Pediatric Embryonal Brain Tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 744-756.   | 0.8 | 10        |
| 66 | DNA methylation profiling demonstrates superior diagnostic classification to RNA-sequencing in a case of metastatic meningioma. <i>Acta Neuropathologica Communications</i> , 2020, 8, 82.  | 5.2 | 10        |
| 67 | Intratumor and informatic heterogeneity influence meningioma molecular classification. <i>Acta Neuropathologica</i> , 2022, 144, 579-583.   | 7.7 | 10        |
| 68 | Synthesis and Preliminary Biological Assessment of Carborane-Loaded Theranostic Nanoparticles to Target Prostate-Specific Membrane Antigen. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54739-54752.                                      | 8.0 | 9         |
| 69 | Preoperative MR Imaging to Differentiate Chordoid Meningiomas from Other Meningioma Histologic Subtypes. <i>American Journal of Neuroradiology</i> , 2019, 40, 433-439.   | 2.4 | 8         |
| 70 | Meningioma cells express primary cilia but do not transduce ciliary Hedgehog signals. <i>Acta Neuropathologica Communications</i> , 2020, 8, 114.   | 5.2 | 8         |
| 71 | Clinical Implications of Primary Cilia in Skin Cancer. <i>Dermatology and Therapy</i> , 2020, 10, 233-248.  | 3.0 | 8         |
| 72 | Adverse radiation effect and freedom from progression following repeat stereotactic radiosurgery for brain metastases. <i>Journal of Neurosurgery</i> , 2023, 138, 104-112.   | 1.6 | 8         |

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|----|---|------|-----------|
| 73 | Preclinical models of meningioma: Cell culture and animal systems. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2020, 169, 131-136.   | 1.8  | 6         |
| 74 | Genetic Events and Signaling Mechanisms Underlying Schwann Cell Fate in Development and Cancer. Neurosurgery, 2021, 88, 234-245.  | 1.1  | 6         |
| 75 | A single institution retrospective analysis on survival based on treatment paradigms for patients with anaplastic oligodendroglioma. Journal of Neuro-Oncology, 2021, 153, 447-454.   | 2.9  | 6         |
| 76 | Residents-as-Teachers Curriculum for Radiation Oncology: A Targeted Needs Assessment. International Journal of Radiation Oncology Biology Physics, 2021, 111, 638-642.  | 0.8  | 6         |
| 77 | Histopathologic findings in malignant peripheral nerve sheath tumor predict response to radiotherapy and overall survival. Neuro-Oncology Advances, 2020, 2, vdaa131.   | 0.7  | 6         |
| 78 | Pediatric Pineoblastoma: A pooled outcome study of North American and Australian therapeutic data. Neuro-Oncology Advances, 0, , .  | 0.7  | 6         |
| 79 | Targeted Next-Generation Sequencing Reveals Divergent Clonal Evolution in Components of Composite Pleomorphic Xanthoastrocytoma-Ganglioglioma. Journal of Neuropathology and Experimental Neurology, 2022, 81, 650-657.   | 1.7  | 5         |
| 80 | Bladder wall recurrence of prostate cancer after high-dose-rate brachytherapy. Brachytherapy, 2015, 14, 185-188.  | 0.5  | 4         |
| 81 | CNPY4 inhibits the Hedgehog pathway by modulating membrane sterol lipids. Nature Communications, 2022, 13, 2407.  | 12.8 | 3         |
| 82 | Supervised machine learning algorithms demonstrate proliferation index correlates with long-term recurrence after complete resection of WHO grade I meningioma. Journal of Neurosurgery, 2023, 138, 86-94.  | 1.6  | 3         |
| 83 | Non-Muscle Myosin IIa Heavy Chain Links Squamous-Cell Carcinoma of the Head and Neck to the DNA Damage Response. Frontiers in Oncology, 2014, 4, 228.   | 2.8  | 1         |
| 84 | Gold fiducial marker tracking to optimize radiotherapy for organ-preserving treatment of muscle-invasive bladder cancer. Journal of Radiation Oncology, 2015, 4, 283-290.   | 0.7  | 1         |
| 85 | Stereotactic Body Radiotherapy for Adrenal Gland Metastases: A Pooled Meta-Analysis of 1006 Patients. International Journal of Radiation Oncology Biology Physics, 2020, 108, E19-E20.  | 0.8  | 1         |
| 86 | Letter: Patterns of Intermediate- and High-Risk Meningioma Recurrence After Treatment With Postoperative External Beam Radiotherapy. Neurosurgery, 2021, 89, E99-E101.  | 1.1  | 1         |
| 87 | Toward an Improved Understanding of the Ionizing Radiation Induced DNA Damage/Response Networks in Human Malignancies. Frontiers in Oncology, 2014, 4, 335.   | 2.8  | 0         |
| 88 | (P102) Survival After Chemotherapy and Stem Cell Transplant Followed by Delayed Craniospinal Irradiation Is Comparable to Upfront Craniospinal Irradiation in Pediatric Embryonal Brain Tumor Patients. International Journal of Radiation Oncology Biology Physics, 2017, 98, E43. | 0.8  | 0         |
| 89 | Multiple myeloma and a mischievous pacemaker: A teaching case involving irradiation of a cardiovascular implantable electronic device. Practical Radiation Oncology, 2018, 8, 90-94.  | 2.1  | 0         |
| 90 | RADI-21. STEREOTACTIC RADIOSURGERY FOR 10 OR MORE BRAIN METASTASES PROVIDES EXCELLENT RATES OF INTRACRANIAL DISEASE CONTROL WITH SUPERIOR HIPPOCAMPAL SPARING. Neuro-Oncology Advances, 2019, 1, i25-i26.   | 0.7  | 0         |

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|----|--|-----|-----------|
| 91 | (P021) Central Nervous System Edema, Brain Invasion and Prior Radiotherapy Are Negative Predictive Factors for Symptomatic Improvement Following Surgery for Meningioma. International Journal of Radiation Oncology Biology Physics, 2017, 98, E21. | 0.8 | 0         |