David Castel

List of Publications by Year
in descending order

48 papers	5,883 citations	236925 25 h-index	214800 47 g-index
52 all docs	52 docs citations	52 times ranked	8765 citing authors

#	Article	IF	Citations
1	A comprehensive evaluation of normalization methods for Illumina high-throughput RNA sequencing data analysis. Briefings in Bioinformatics, 2013, 14, 671-683.	6.5	1,064
2	Integrated Molecular Meta-Analysis of 1,000 Pediatric High-Grade and Diffuse Intrinsic Pontine Glioma. Cancer Cell, 2017, 32, 520-537.e5.	16.8	716
3	Reduced H3K27me3 and DNA Hypomethylation Are Major Drivers of Gene Expression in K27M Mutant Pediatric High-Grade Gliomas. Cancer Cell, 2013, 24, 660-672.	16.8	633
4	Histone H3F3A and HIST1H3B K27M mutations define two subgroups of diffuse intrinsic pontine gliomas with different prognosis and phenotypes. Acta Neuropathologica, 2015, 130, 815-827.	7.7	482
5	Recurrent activating ACVR1 mutations in diffuse intrinsic pontine glioma. Nature Genetics, 2014, 46, 457-461.	21.4	423
6	A Critical Requirement for Notch Signaling in Maintenance of the Quiescent Skeletal Muscle Stem Cell State. Stem Cells, 2012, 30, 243-252.	3.2	402
7	The current consensus on the clinical management of intracranial ependymoma and its distinct molecular variants. Acta Neuropathologica, 2017, 133, 5-12.	7.7	271
8	Clinical, Radiologic, Pathologic, and Molecular Characteristics of Long-Term Survivors of Diffuse Intrinsic Pontine Glioma (DIPG): A Collaborative Report From the International and European Society for Pediatric Oncology DIPG Registries. Journal of Clinical Oncology, 2018, 36, 1963-1972.	1.6	250
9	Dynamic binding of RBPJ is determined by Notch signaling status. Genes and Development, 2013, 27, 1059-1071.	5.9	218
10	Reciprocal signalling by Notchâ€“Collagen Vâ€“CALCR retains muscle stem cells in their niche. Nature, 2018, 557, 714-718.	27.8	203
11	Histone H3 wild-type DIPG/DMG overexpressing EZHIP extend the spectrum diffuse midline gliomas with PRC2 inhibition beyond H3-K27M mutation. Acta Neuropathologica, 2020, 139, 1109-1113.	7.7	104
12	Cell microarrays in drug discovery. Drug Discovery Today, 2006, 11, 616-622.	6.4	91
13	Notch-Induced miR-708 Antagonizes Satellite Cell Migration and Maintains Quiescence. Cell Stem Cell, 2018, 23, 859-868.e5.	11.1	87
14	Transcriptomic and epigenetic profiling of â€˜diffuse midline gliomas, H3 K27M-mutantâ€™ discriminate two subgroups based on the type of histone H3 mutated and not supratentorial or infratentorial location. Acta Neuropathologica Communications, 2018, 6, 117.	5.2	83
15	Coâ€occurrence of histone H3 K27M and BRAF V600E mutations in paediatric midline grade I ganglioglioma. Brain Pathology, 2018, 28, 103-111.	4.1	80
16	A subset of pediatric-type thalamic gliomas share a distinct DNA methylation profile, H3K27me3 loss and frequent alteration of EGFR. Neuro-Oncology, 2021, 23, 34-43.	1.2	75
17	Quantitative analysis of highly parallel transfection in cell microarrays. Nucleic Acids Research, 2004, 32, e77-e77.	14.5	73
18	TP53 Pathway Alterations Drive Radioresistance in Diffuse Intrinsic Pontine Gliomas (DIPG). Clinical Cancer Research, 2019, 25, 6788-6800.	7.0	66

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19	Diagnostics of pediatric supratentorial RELA ependymomas: integration of information from histopathology, genetics, DNA methylation and imaging. Brain Pathology, 2019, 29, 325-335.	4.1	55
20	K27M mutation in H3F3A in ganglioglioma grade I with spontaneous malignant transformation extends the histopathological spectrum of the histone H3 oncogenic pathway. Neuropathology and Applied Neurobiology, 2017, 43, 271-276.	3.2	47
21	Papillary glioneuronal tumors: histological and molecular characteristics and diagnostic value of SLC44A1-PRKCA fusion. Acta Neuropathologica Communications, 2015, 3, 85.	5.2	46
22	Development of the SIOPE DIPG network, registry and imaging repository: a collaborative effort to optimize research into a rare and lethal disease. Journal of Neuro-Oncology, 2017, 132, 255-266.	2.9	42
23	New in vivo avatars of diffuse intrinsic pontine gliomas (DIPG) from stereotactic biopsies performed at diagnosis. Oncotarget, 2017, 8, 52543-52559.	1.8	41
24	Modeling the Interaction between the Microenvironment and Tumor Cells in Brain Tumors. Neuron, 2020, 108, 1025-1044.	8.1	31
25	International experience in the development of patient-derived xenograft models of diffuse intrinsic pontine glioma. Journal of Neuro-Oncology, 2019, 141, 253-263.	2.9	30
26	Cerebral blood flow changes after radiation therapy identifies pseudoprogression in diffuse intrinsic pontine gliomas. Neuro-Oncology, 2018, 20, 994-1002.	1.2	21
27	The histomolecular criteria established for adult anaplastic pilocytic astrocytoma are not applicable to the pediatric population. Acta Neuropathologica, 2020, 139, 287-303.	7.7	19
28	Id2 Reverses Cell Cycle Arrest Induced by Î³-Irradiation in Human HaCaT Keratinocytes. Journal of Biological Chemistry, 2005, 280, 15836-15841.	3.4	18
29	Multimodal Magnetic Resonance Imaging of Treatment-Induced Changes to Diffuse Infiltrating Pontine Gliomas in Children and Correlation to Patient Progression-Free Survival. International Journal of Radiation Oncology Biology Physics, 2017, 99, 476-485.	0.8	18
30	Small-RNA sequencing identifies dynamic microRNA deregulation during skeletal muscle lineage progression. Scientific Reports, 2018, 8, 4208.	3.3	18
31	The EP300:BCOR fusion extends the genetic alteration spectrum defining the new tumoral entity of â€œCNS tumors with BCOR internal tandem duplicationâ€• Acta Neuropathologica Communications, 2020, 8, 178.	5.2	17
32	Diffuse intrinsic pontine gliomas (DIPG) at recurrence: is there a window to test new therapies in some patients?. Journal of Neuro-Oncology, 2018, 137, 111-118.	2.9	16
33	Integrating Tenascin-C protein expression and 1q25 copy number status in pediatric intracranial ependymoma prognostication: A new model for risk stratification. PLoS ONE, 2017, 12, e0178351.	2.5	15
34	A kinome-wide shRNA screen uncovers vaccinia-related kinase 3 (VRK3) as an essential gene for diffuse intrinsic pontine glioma survival. Oncogene, 2019, 38, 6479-6490.	5.9	13
35	High Prevalence of Developmental Venous Anomaly in Diffuse Intrinsic Pontine Gliomas: A Pediatric Control Study. Neurosurgery, 2020, 86, 517-523.	1.1	13
36	Rapid and Sensitive Drug Quantification in Tissue Sections Using Matrix Assisted Laser Desorption Ionization-Ion Mobility-Mass Spectrometry Profiling. Journal of the American Society for Mass Spectrometry, 2020, 31, 742-751.	2.8	13

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37	Vacuum casting to manufacture a plastic biochip for highly parallel cell transfection. Measurement Science and Technology, 2006, 17, 3134-3140.	2.6	12
38	Learning a Markov Logic network for supervised gene regulatory network inference. BMC Bioinformatics, 2013, 14, 273.	2.6	12
39	Histone H3 genotyping refines clinico-radiological diagnostic and prognostic criteria in DIPG. Acta Neuropathologica, 2016, 131, 795-796.	7.7	11
40	Radiogenomics of diffuse intrinsic pontine gliomas (DIPGs): correlation of histological and biological characteristics with multimodal MRI features. European Radiology, 2021, 31, 8913-8924.	4.5	11
41	Large Scale RNAi Screen Reveals That the Inhibitor of DNA Binding 2 (ID2) Protein Is Repressed by p53 Family Member p63 and Functions in Human Keratinocyte Differentiation. Journal of Biological Chemistry, 2011, 286, 20870-20879.	3.4	10
42	Systematic identification of suspected anthelmintic benzimidazole metabolites using LCâ€“MS/MS. Journal of Pharmaceutical and Biomedical Analysis, 2018, 151, 151-158.	2.8	9
43	Cell Microarray for Functional Exploration of Genomes. , 2007, 381, 375-384.		5
44	Deciphering the genetic and epigenetic landscape of pediatric bithalamic tumors. Brain Pathology, 2022, 32, e13039.	4.1	5
45	DIPG-20. PRE-RANDOMISATION CENTRAL REVIEW AND REAL-TIME BIOMARKERS SCREENING IN THE MULTICENTRE BIOLOGICAL MEDICINE FOR DIPG ERADICATION (BIOMEDE) TRIAL: LESSONS LEARNT FROM THE FIRST 120 BIOPSIES. Neuro-Oncology, 2018, 20, i52-i53.	1.2	2
46	A DNA Repair and Cell Cycle Gene Expression Signature in Pediatric High-Grade Gliomas: Prognostic and Therapeutic Value. Cancers, 2021, 13, 2252.	3.7	2
47	The dark matter of diffuse intrinsic pontine gliomas: an update. Expert Opinion on Orphan Drugs, 2019, 7, 11-20.	0.8	1
48	HGG-41. Glioma oncogenesis in the constitutional mismatch repair deficiency (CMMRD) syndrome. Neuro-Oncology, 2022, 24, i70-i70.	1.2	0