

David Keays

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

3,665
citations

159585

30
h-index

133252

59
g-index

65
all docs

65
docs citations

65
times ranked

5365
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mutations in β -Tubulin Cause Abnormal Neuronal Migration in Mice and Lissencephaly in Humans. <i>Cell</i> , 2007, 128, 45-57. | 28.9 | 397 |
| 2 | Mutations in the β -tubulin gene TUBB2B result in asymmetrical polymicrogyria. <i>Nature Genetics</i> , 2009, 41, 746-752. | 21.4 | 330 |
| 3 | Impaired Synaptic Plasticity and Motor Learning in Mice with a Point Mutation Implicated in Human Speech Deficits. <i>Current Biology</i> , 2008, 18, 354-362. | 3.9 | 304 |
| 4 | Large spectrum of lissencephaly and pachygyria phenotypes resulting from de novo missense mutations in tubulin alpha 1A (<i>TUBA1A</i>). <i>Human Mutation</i> , 2007, 28, 1055-1064. | 2.5 | 213 |
| 5 | Mutations in the β -Tubulin Gene TUBB5 Cause Microcephaly with Structural Brain Abnormalities. <i>Cell Reports</i> , 2012, 2, 1554-1562. | 6.4 | 162 |
| 6 | Clusters of iron-rich cells in the upper beak of pigeons are macrophages not magnetosensitive neurons. <i>Nature</i> , 2012, 484, 367-370. | 27.8 | 150 |
| 7 | A gene-driven ENU-based approach to generating an allelic series in any gene. <i>Mammalian Genome</i> , 2004, 15, 585-591. | 2.2 | 148 |
| 8 | Therapeutic applications of conotoxins that target the neuronal nicotinic acetylcholine receptor. <i>Toxicon</i> , 2006, 48, 810-829. | 1.6 | 128 |
| 9 | Mutations in the HECT domain of NEDD4L lead to AKT/mTOR pathway deregulation and cause periventricular nodular heterotopia. <i>Nature Genetics</i> , 2016, 48, 1349-1358. | 21.4 | 101 |
| 10 | Magnetoreception—A sense without a receptor. <i>PLoS Biology</i> , 2017, 15, e2003234. | 5.6 | 92 |
| 11 | Mutations in PGAP3 Impair GPI-Anchor Maturation, Causing a Subtype of Hyperphosphatasia with Mental Retardation. <i>American Journal of Human Genetics</i> , 2014, 94, 278-287. | 6.2 | 88 |
| 12 | Periventricular heterotopia in 6q terminal deletion syndrome: role of the C6orf70 gene. <i>Brain</i> , 2013, 136, 3378-3394. | 7.6 | 85 |
| 13 | Deletions and de novo mutations of <i>SOX11</i> are associated with a neurodevelopmental disorder with features of Coffin–Siris syndrome. <i>Journal of Medical Genetics</i> , 2016, 53, 152-162. | 3.2 | 69 |
| 14 | Tubulins and brain development — The origins of functional specification. <i>Molecular and Cellular Neurosciences</i> , 2017, 84, 58-67. | 2.2 | 67 |
| 15 | No evidence for intracellular magnetite in putative vertebrate magnetoreceptors identified by magnetic screening. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 262-267. | 7.1 | 66 |
| 16 | Mutations in <i>PIGY</i> : expanding the phenotype of inherited glycosylphosphatidylinositol deficiencies. <i>Human Molecular Genetics</i> , 2015, 24, 6146-6159. | 2.9 | 64 |
| 17 | Disease-associated mutations in TUBA1A result in a spectrum of defects in the tubulin folding and heterodimer assembly pathway. <i>Human Molecular Genetics</i> , 2010, 19, 3599-3613. | 2.9 | 63 |
| 18 | Mutations in Either TUBB or MAPRE2 Cause Circumferential Skin Creases Kunze Type. <i>American Journal of Human Genetics</i> , 2015, 97, 790-800. | 6.2 | 63 |

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|----|--|------|-----------|
| 19 | Improved Genome Assembly and Annotation for the Rock Pigeon (<i>Columba livia</i>). <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1391-1398. | 1.8 | 62 |
| 20 | A Putative Mechanism for Magnetoreception by Electromagnetic Induction in the Pigeon Inner Ear. <i>Current Biology</i> , 2019, 29, 4052-4059.e4. | 3.9 | 61 |
| 21 | Exome sequencing can detect pathogenic mosaic mutations present at low allele frequencies. <i>Journal of Human Genetics</i> , 2012, 57, 70-72. | 2.3 | 58 |
| 22 | Estimating the number of coding mutations in genotypic- and phenotypic-driven N-ethyl-N-nitrosourea (ENU) screens. <i>Mammalian Genome</i> , 2006, 17, 230-238. | 2.2 | 57 |
| 23 | Determining sequences and post-translational modifications of novel conotoxins in <i>Conus victoriae</i> using cDNA sequencing and mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2004, 39, 548-557. | 1.6 | 56 |
| 24 | Germline recessive mutations in PI4KA are associated with perisylvian polymicrogyria, cerebellar hypoplasia and arthrogryposis. <i>Human Molecular Genetics</i> , 2015, 24, 3732-3741. | 2.9 | 56 |
| 25 | Is magnetogenetics the new optogenetics?. <i>EMBO Journal</i> , 2017, 36, 1643-1646. | 7.8 | 56 |
| 26 | Microtubules and Neurodevelopmental Disease: The Movers and the Makers. <i>Advances in Experimental Medicine and Biology</i> , 2014, 800, 75-96. | 1.6 | 55 |
| 27 | The biophysical, molecular, and anatomical landscape of pigeon CRY4: A candidate light-based quantal magnetosensor. <i>Science Advances</i> , 2020, 6, eabb9110. | 10.3 | 50 |
| 28 | Mutation of the Diamond-Blackfan Anemia Gene <i>Rps7</i> in Mouse Results in Morphological and Neuroanatomical Phenotypes. <i>PLoS Genetics</i> , 2013, 9, e1003094. | 3.5 | 47 |
| 29 | An Iron-Rich Organelle in the Cuticular Plate of Avian Hair Cells. <i>Current Biology</i> , 2013, 23, 924-929. | 3.9 | 41 |
| 30 | <i>Tuba8</i> Is Expressed at Low Levels in the Developing Mouse and Human Brain. <i>American Journal of Human Genetics</i> , 2010, 86, 819-822. | 6.2 | 35 |
| 31 | Mutations in <i>MAST1</i> Cause Mega-Corpus-Callosum Syndrome with Cerebellar Hypoplasia and Cortical Malformations. <i>Neuron</i> , 2018, 100, 1354-1368.e5. | 8.1 | 35 |
| 32 | <i>TUBB5</i> and its disease-associated mutations influence the terminal differentiation and dendritic spine densities of cerebral cortical neurons. <i>Human Molecular Genetics</i> , 2014, 23, 5147-5158. | 2.9 | 32 |
| 33 | Estimating the number of coding mutations in genotypic and phenotypic driven N-ethyl-N-nitrosourea (ENU) screens: revisited. <i>Mammalian Genome</i> , 2007, 18, 123-124. | 2.2 | 30 |
| 34 | Mutations in <i>Vps15</i> perturb neuronal migration in mice and are associated with neurodevelopmental disease in humans. <i>Nature Neuroscience</i> , 2018, 21, 207-217. | 14.8 | 30 |
| 35 | Mutations in the murine homologue of <i>TUBB5</i> cause microcephaly by perturbing cell cycle progression and inducing p53 associated apoptosis. <i>Development (Cambridge)</i> , 2016, 143, 1126-33. | 2.5 | 25 |
| 36 | High resolution anatomical mapping confirms the absence of a magnetic sense system in the rostral upper beak of pigeons. <i>Communicative and Integrative Biology</i> , 2013, 6, e24859. | 1.4 | 24 |

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|----|---|-----|-----------|
| 37 | Behavioural characterisation of the robotic mouse mutant. <i>Behavioural Brain Research</i> , 2007, 181, 239-247. | 2.2 | 23 |
| 38 | The expression of <i>tubb2b</i> undergoes a developmental transition in murine cortical neurons. <i>Journal of Comparative Neurology</i> , 2015, 523, 2161-2186. | 1.6 | 23 |
| 39 | Why (and how) we should publish negative data. <i>EMBO Reports</i> , 2020, 21, e49775. | 4.5 | 22 |
| 40 | The Role of <i>Tuba1a</i> in Adult Hippocampal Neurogenesis and the Formation of the Dentate Gyrus. <i>Developmental Neuroscience</i> , 2010, 32, 268-277. | 2.0 | 18 |
| 41 | No evidence for a magnetite-based magnetoreceptor in the lagena of pigeons. <i>Current Biology</i> , 2019, 29, R14-R15. | 3.9 | 18 |
| 42 | Lidocaine is a nocebo treatment for trigeminally mediated magnetic orientation in birds. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180124. | 3.4 | 15 |
| 43 | Neuronal migration: unraveling the molecular pathway with humans, mice, and a fungus. <i>Mammalian Genome</i> , 2007, 18, 425-30. | 2.2 | 14 |
| 44 | Cryptochrome: The magnetosensor with a sinister side?. <i>PLoS Biology</i> , 2018, 16, e3000018. | 5.6 | 14 |
| 45 | Quantum magnetic imaging of iron organelles within the pigeon cochlea. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 14 |
| 46 | Comment on "Magnetosensitive neurons mediate geomagnetic orientation in <i>Caenorhabditis elegans</i> ". <i>ELife</i> , 2018, 7, . | 6.0 | 12 |
| 47 | A high sensitivity ZENK monoclonal antibody to map neuronal activity in Aves. <i>Scientific Reports</i> , 2020, 10, 915. | 3.3 | 12 |
| 48 | Uner Tan syndrome caused by a homozygous <i>TUBB2B</i> mutation affecting microtubule stability. <i>Human Molecular Genetics</i> , 2016, 26, ddw383. | 2.9 | 11 |
| 49 | Subcellular analysis of pigeon hair cells implicates vesicular trafficking in cuticulosome formation and maintenance. <i>ELife</i> , 2017, 6, . | 6.0 | 10 |
| 50 | Activation of an exonic splice donor site in exon 30 of <i>CDK5RAP2</i> in a patient with severe microcephaly and pigmentary abnormalities. <i>Clinical Case Reports (discontinued)</i> , 2016, 4, 952-956. | 0.5 | 8 |
| 51 | A proteomic survey of microtubule-associated proteins in a R402H <i>TUBA1A</i> mutant mouse. <i>PLoS Genetics</i> , 2020, 16, e1009104. | 3.5 | 8 |
| 52 | Genetic testing and insurance: When is discrimination justified?. <i>Monash Bioethics Review</i> , 2000, 19, S79-S88. | 0.8 | 7 |
| 53 | Cytoarchitectural disruption of the superior colliculus and an enlarged acoustic startle response in the <i>Tuba1a</i> mutant mouse. <i>Neuroscience</i> , 2011, 195, 191-200. | 2.3 | 6 |
| 54 | Brain-specific knockin of the pathogenic <i>Tubb5</i> E401K allele causes defects in motor coordination and prepulse inhibition. <i>Behavioural Brain Research</i> , 2017, 323, 47-55. | 2.2 | 6 |

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|----|--|-----|-----------|
| 55 | The expression, localisation and interactome of pigeon CRY2. Scientific Reports, 2021, 11, 20293. | 3.3 | 6 |
| 56 | Myths in magnetosensation. IScience, 2022, 25, 104454. | 4.1 | 5 |
| 57 | Neuronal circuits and the magnetic sense: central questions. Journal of Experimental Biology, 2020, 223, . | 1.7 | 3 |
| 58 | Ectopic otoconial formation in the lagena of the pigeon inner ear. Biology Open, 2018, 7, . | 1.2 | 2 |
| 59 | Treating drug-dependent patients in hospitals. Journal of Law & Medicine, 2002, 10, 109-17. | 0.0 | 0 |