

# Donald J Mabbott

## List of Publications by Year in descending order

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106  
papers

5,086  
citations

101543

36  
h-index

95266

68  
g-index

108  
all docs

108  
docs citations

108  
times ranked

5253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Medulloblastoma. Nature Reviews Disease Primers, 2019, 5, 11.	30.5	376
2	Change in Neurocognitive Functioning After Treatment With Cranial Radiation in Childhood. Journal of Clinical Oncology, 2004, 22, 706-713.	1.6	349
3	Prognostic value of medulloblastoma extent of resection after accounting for molecular subgroup: a retrospective integrated clinical and molecular analysis. Lancet Oncology, The, 2016, 17, 484-495.	10.7	274
4	Serial Evaluation of Academic and Behavioral Outcome After Treatment With Cranial Radiation in Childhood. Journal of Clinical Oncology, 2005, 23, 2256-2263.	1.6	230
5	White matter growth as a mechanism of cognitive development in children. NeuroImage, 2006, 33, 936-946.	4.2	185
6	Processing Speed, Attention, and Working Memory After Treatment for Medulloblastoma: An International, Prospective, and Longitudinal Study. Journal of Clinical Oncology, 2013, 31, 3494-3500.	1.6	181
7	Impact of Craniospinal Dose, Boost Volume, and Neurologic Complications on Intellectual Outcome in Patients With Medulloblastoma. Journal of Clinical Oncology, 2014, 32, 1760-1768.	1.6	177
8	Core neurocognitive functions in children treated for posterior fossa tumors.. Neuropsychology, 2008, 22, 159-168.	1.3	174
9	Diffusion tensor imaging of white matter after cranial radiation in children for medulloblastoma: Correlation with IQ. Neuro-Oncology, 2006, 8, 244-252.	1.2	156
10	Superior Intellectual Outcomes After Proton Radiotherapy Compared With Photon Radiotherapy for Pediatric Medulloblastoma. Journal of Clinical Oncology, 2020, 38, 454-461.	1.6	143
11	Clinical and neuroanatomical predictors of cerebellar mutism syndrome. Neuro-Oncology, 2012, 14, 1294-1303.	1.2	112
12	Medulloblastoma subgroup-specific outcomes in irradiated children: who are the true high-risk patients?. Neuro-Oncology, 2016, 18, 291-297.	1.2	112
13	Early aging in adult survivors of childhood medulloblastoma: long-term neurocognitive, functional, and physical outcomes. Neuro-Oncology, 2011, 13, 536-545.	1.2	111
14	Cerebello-thalamo-cerebral connections in pediatric brain tumor patients: Impact on working memory. NeuroImage, 2011, 56, 2238-2248.	4.2	99
15	Examination of risk factors for intellectual and academic outcomes following treatment for pediatric medulloblastoma. Neuro-Oncology, 2014, 16, 1129-1136.	1.2	99
16	The relations between white matter and declarative memory in older children and adolescents. Brain Research, 2009, 1294, 80-90.	2.2	98
17	Limited-field radiation for bifocal germinoma. International Journal of Radiation Oncology Biology Physics, 2006, 65, 486-492.	0.8	86
18	Activity-dependent myelination: A glial mechanism of oscillatory self-organization in large-scale brain networks. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13227-13237.	7.1	79

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19	Computational Skills, Working Memory, and Conceptual Knowledge in Older Children With Mathematics Learning Disabilities. <i>Journal of Learning Disabilities</i> , 2008, 41, 15-28.	2.2	78
20	Memory in children with temporal or extra-temporal excisions. <i>Neuropsychologia</i> , 2003, 41, 995-1007.	1.6	77
21	Functional and neuropsychological late outcomes in posterior fossa tumors in children. <i>Child's Nervous System</i> , 2015, 31, 1877-1890.	1.1	76
22	Exercise training for neural recovery in a restricted sample of pediatric brain tumor survivors: a controlled clinical trial with crossover of training versus no training. <i>Neuro-Oncology</i> , 2017, 19, now177.	1.2	73
23	Intellectual Outcome in Molecular Subgroups of Medulloblastoma. <i>Journal of Clinical Oncology</i> , 2016, 34, 4161-4170.	1.6	72
24	Neurocognitive outcome 12 months following cerebellar mutism syndrome in pediatric patients with medulloblastoma. <i>Neuro-Oncology</i> , 2010, 12, 1311-7.	1.2	71
25	Physical functioning in pediatric survivors of childhood posterior fossa brain tumors. <i>Neuro-Oncology</i> , 2014, 16, 147-155.	1.2	69
26	Posterior fossa syndrome and long-term neuropsychological outcomes among children treated for medulloblastoma on a multi-institutional, prospective study. <i>Neuro-Oncology</i> , 2017, 19, 1673-1682.	1.2	68
27	Longitudinal evaluation of neurocognitive function after treatment for central nervous system germ cell tumors in childhood. <i>Cancer</i> , 2011, 117, 5402-5411.	4.1	66
28	Assessment of cognitive and neural recovery in survivors of pediatric brain tumors in a pilot clinical trial using metformin. <i>Nature Medicine</i> , 2020, 26, 1285-1294.	30.7	65
29	Repairing the brain with physical exercise: Cortical thickness and brain volume increases in long-term pediatric brain tumor survivors in response to a structured exercise intervention. <i>NeuroImage: Clinical</i> , 2018, 18, 972-985.	2.7	63
30	Changes to Memory Structures in Children Treated for Posterior Fossa Tumors. <i>Journal of the International Neuropsychological Society</i> , 2014, 20, 168-180.	1.8	59
31	White and Gray Matter Abnormalities After Cranial Radiation in Children and Mice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2015, 93, 882-891.	0.8	50
32	Survival and functional outcomes of molecularly defined childhood posterior fossa ependymoma: Cure at a cost. <i>Cancer</i> , 2019, 125, 1867-1876.	4.1	49
33	Developmental Change and Individual Differences in Children's Multiplication. <i>Child Development</i> , 2003, 74, 1091-1107.	3.0	44
34	White matter and information processing speed following treatment with cranial-spinal radiation for pediatric brain tumor. <i>Neuropsychology</i> , 2016, 30, 425-438.	1.3	42
35	Changes in White Matter Microstructure Impact Cognition by Disrupting the Ability of Neural Assemblies to Synchronize. <i>Journal of Neuroscience</i> , 2017, 37, 8227-8238.	3.6	42
36	Treatment of Executive Function Deficits in autism spectrum disorder with repetitive transcranial magnetic stimulation: A double-blind, sham-controlled, pilot trial. <i>Brain Stimulation</i> , 2020, 13, 539-547.	1.6	41

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37	Executive function in paediatric medulloblastoma: The role of cerebrocerebellar connections. <i>Journal of Neuropsychology</i> , 2017, 11, 174-200.	1.4	39
38	White Matter Integrity and Core Cognitive Function in Children Diagnosed With Sickle Cell Disease. <i>Journal of Pediatric Hematology/Oncology</i> , 2011, 33, 163-171.	0.6	38
39	Abnormal white matter correlates with neuropsychological impairment in children with localization-related epilepsy. <i>Epilepsia</i> , 2013, 54, 1065-1073.	5.1	38
40	Relations between White Matter Maturation and Reaction Time in Childhood. <i>Journal of the International Neuropsychological Society</i> , 2014, 20, 99-112.	1.8	37
41	White matter compromise predicts poor intellectual outcome in survivors of pediatric low-grade glioma. <i>Neuro-Oncology</i> , 2015, 17, 604-613.	1.2	36
42	Cognitive Risk in Survivors of Pediatric Brain Tumors. <i>Journal of Clinical Oncology</i> , 2021, 39, 1718-1726.	1.6	36
43	Working Memory Abilities Among Children Treated for Medulloblastoma: Parent Report and Child Performance. <i>Journal of Pediatric Psychology</i> , 2014, 39, 501-511.	2.1	34
44	Cognitive Implications of Ototoxicity in Pediatric Patients With Embryonal Brain Tumors. <i>Journal of Clinical Oncology</i> , 2019, 37, 1566-1575.	1.6	33
45	Relationship between ventricular size, white matter injury, and neurocognition in children with stable, treated hydrocephalus. <i>Journal of Neurosurgery: Pediatrics</i> , 2015, 16, 267-274.	1.3	31
46	White matter plasticity and maturation in human cognition. <i>Glia</i> , 2019, 67, 2020-2037.	4.9	31
47	Smaller hippocampal subfield volumes predict verbal associative memory in pediatric brain tumor survivors. <i>Hippocampus</i> , 2017, 27, 1140-1154.	1.9	30
48	The effects of treatment for posterior fossa brain tumors on selective attention. <i>Journal of the International Neuropsychological Society</i> , 2009, 15, 205-216.	1.8	29
49	Mapping of the cortical spinal tracts using magnetoencephalography and diffusion tensor tractography in pediatric brain tumor patients. <i>Child's Nervous System</i> , 2010, 26, 1639-1645.	1.1	29
50	Neurocognitive evaluation of long term survivors of atypical teratoid rhabdoid tumors (ATRT): The Canadian registry experience. <i>Pediatric Blood and Cancer</i> , 2015, 62, 1265-1269.	1.5	29
51	White matter maturation in visual and motor areas predicts the latency of visual activation in children. <i>Human Brain Mapping</i> , 2012, 33, 179-191.	3.6	28
52	Development of short-range white matter in healthy children and adolescents. <i>Human Brain Mapping</i> , 2018, 39, 204-217.	3.6	27
53	Vulnerability of white matter to insult during childhood: evidence from patients treated for medulloblastoma. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 18, 29-40.	1.3	25
54	Repetitive Transcranial Magnetic Stimulation for the Treatment of Executive Function Deficits in Autism Spectrum Disorder: Clinical Trial Approach. <i>Journal of Child and Adolescent Psychopharmacology</i> , 2017, 27, 413-421.	1.3	24

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55	Visualization and segmentation of reciprocal cerebrocerebellar pathways in the healthy and injured brain. <i>Human Brain Mapping</i> , 2015, 36, 2615-2628.	3.6	22
56	Predictors of neuropsychological late effects and white matter correlates in children treated for a brain tumor without radiation therapy. <i>Pediatric Blood and Cancer</i> , 2019, 66, e27924.	1.5	22
57	Children's family income is associated with cognitive function and volume of anterior not posterior hippocampus. <i>Nature Communications</i> , 2020, 11, 4040.	12.8	22
58	Molecular correlates of cerebellar mutism syndrome in medulloblastoma. <i>Neuro-Oncology</i> , 2020, 22, 290-297.	1.2	21
59	PPAR and GST polymorphisms may predict changes in intellectual functioning in medulloblastoma survivors. <i>Journal of Neuro-Oncology</i> , 2019, 142, 39-48.	2.9	21
60	A controlled clinical crossover trial of exercise training to improve cognition and neural communication in pediatric brain tumor survivors. <i>Clinical Neurophysiology</i> , 2020, 131, 1533-1547.	1.5	20
61	Gamma Deficits as a Neural Signature of Cognitive Impairment in Children Treated for Brain Tumors. <i>Journal of Neuroscience</i> , 2014, 34, 8813-8824.	3.6	18
62	Intellectual changes after radiation for children with brain tumors: which brain structures are most important?. <i>Neuro-Oncology</i> , 2021, 23, 487-497.	1.2	16
63	Early changes in white matter predict intellectual outcome in children treated for posterior fossa tumors. <i>NeuroImage: Clinical</i> , 2018, 20, 697-704.	2.7	15
64	Impaired Recent, but Preserved Remote, Autobiographical Memory in Pediatric Brain Tumor Patients. <i>Journal of Neuroscience</i> , 2018, 38, 8251-8261.	3.6	15
65	Tracking Inhibitory Control in Youth With ADHD: A Multi-Modal Neuroimaging Approach. <i>Frontiers in Psychiatry</i> , 2020, 11, 00831.	2.6	13
66	Neural correlates of delayed visual-motor performance in children treated for brain tumours. <i>Cortex</i> , 2013, 49, 2140-2150.	2.4	12
67	Functional reorganization of the corticospinal tract in a pediatric patient with an arteriovenous malformation. <i>NeuroReport</i> , 2014, 25, 55-59.	1.2	11
68	Cognitive and neural effects of exercise following traumatic brain injury: A systematic review of randomized and controlled clinical trials. <i>Brain Injury</i> , 2020, 34, 149-159.	1.2	11
69	Medulloblastoma has a global impact on health related quality of life: Findings from an international cohort. <i>Cancer Medicine</i> , 2020, 9, 447-459.	2.8	11
70	Hearing Loss After Radiation and Chemotherapy for CNS and Head-and-Neck Tumors in Children. <i>Journal of Clinical Oncology</i> , 2021, 39, 3813-3821.	1.6	11
71	Facial emotion recognition in children treated for posterior fossa tumours and typically developing children: A divergence of predictors. <i>NeuroImage: Clinical</i> , 2019, 23, 101886.	2.7	10
72	Metformin effects on brain development following cranial irradiation in a mouse model. <i>Neuro-Oncology</i> , 2021, 23, 1523-1536.	1.2	10

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73	Long-term neurocognitive, psychological, and return to work outcomes in meningioma patients. Supportive Care in Cancer, 2022, 30, 3893-3902.	2.2	10
74	Disrupted network connectivity in pediatric brain tumor survivors is a signature of injury. Journal of Comparative Neurology, 2019, 527, 2896-2909.	1.6	9
75	Hearing loss and intellectual outcome in children treated for embryonal brain tumors: Implications for young children treated with radiation sparing approaches. Cancer Medicine, 2021, 10, 7111-7125.	2.8	8
76	Cross-translational models of late-onset cognitive sequelae and their treatment in pediatric brain tumor survivors. Neuron, 2022, 110, 2215-2241.	8.1	8
77	Neurocognitive function in same-sex twins following focal radiation for medulloblastoma. Neuro-Oncology, 2007, 9, 460-464.	1.2	7
78	Eye Movements and White Matter are Associated with Emotional Control in Children Treated for Brain Tumors. Journal of the International Neuropsychological Society, 2020, 26, 978-992.	1.8	6
79	Family environment as a predictor and moderator of cognitive and psychosocial outcomes in children treated for posterior fossa tumors. Child Neuropsychology, 2021, 27, 641-660.	1.3	6
80	Neuropsychological Outcomes in Pediatric Brain Tumor Survivors. , 2015, , 267-276.		6
81	Early neuroaxonal injury is seen in the acute phase of pediatric optic neuritis. Multiple Sclerosis and Related Disorders, 2019, 36, 101387.	2.0	4
82	Exercise Trials in Pediatric Brain Tumor: A Systematic Review of Randomized Studies. Journal of Pediatric Hematology/Oncology, 2021, 43, 59-67.	0.6	4
83	Mapping neural dynamics underlying saccade preparation and execution and their relation to reaction time and direction errors. Human Brain Mapping, 2020, 41, 1934-1949.	3.6	3
84	Impact of home-based cognitive or academic intervention on working memory and mathematics outcomes in pediatric brain tumor survivors: the Keys to Succeed pilot randomized controlled clinical trial. Child Neuropsychology, 2022, 28, 1116-1140.	1.3	3
85	Progressive retinal changes in pediatric multiple sclerosis. Multiple Sclerosis and Related Disorders, 2022, 61, 103761.	2.0	2
86	Reply to S.A. Milgrom et al. Journal of Clinical Oncology, 2020, 38, 2212-2213.	1.6	1
87	Visuomotor Activation of Inhibition-Processing in Pediatric Obsessive Compulsive Disorder: A Magnetoencephalography Study. Frontiers in Psychiatry, 2021, 12, 632736.	2.6	1
88	QOL-09. WHOLE-BRAIN WHITE MATTER NETWORK CONNECTIVITY IS DISRUPTED BY PEDIATRIC BRAIN TUMOR TREATMENT. Neuro-Oncology, 2020, 22, iii432-iii432.	1.2	1
89	Radiation dose to circumscribed brain regions and neurocognitive function in patients with meningioma. Neuro-Oncology Practice, 2022, 9, 208-218.	1.6	1
90	Structural connectivity and intelligence in brain-injured children. Neuropsychologia, 2022, 173, 108285.	1.6	1

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91	CMS-03RISK FACTORS FOR LONG TERM SPEECH DEFICITS IN CHILDREN WITH CEREBELLAR MUTISM SYNDROME. <i>Neuro-Oncology</i> , 2016, 18, iii16.3-iii16.	1.2	0
92	MB-96IMPAIRED NEURAL FUNCTION DURING VISUAL-MOTOR PERFORMANCE IN CHILDREN TREATED FOR BRAIN TUMOURS. <i>Neuro-Oncology</i> , 2016, 18, iii119.1-iii119.	1.2	0
93	QOS-06REPAIRING THE BRAIN WITH PHYSICAL EXERCISE: AN EXERCISE TRIAL IN PEDIATRIC BRAIN TUMOR SURVIVORS. INSIGHTS FROM CORTICAL THICKNESS ANALYSIS AND DEFORMATION BASED MORPHOMETRY. <i>Neuro-Oncology</i> , 2016, 18, iii146.2-iii146.	1.2	0
94	CMS-09BEHAVIOR AND TEMPERAMENT IN CHILDREN TREATED FOR PEDIATRIC MEDULLOBLASTOMA WITH POSTOPERATIVE CEREBELLAR MUTISM SYNDROME. <i>Neuro-Oncology</i> , 2016, 18, iii17.4-iii17.	1.2	0
95	EPEN-31. SUBGROUP SPECIFIC LONG-TERM SURVIVAL AND NEUROCOGNITIVE OUTCOMES IN POSTERIOR FOSSA EPENDYMOMA (PFE). <i>Neuro-Oncology</i> , 2018, 20, i79-i79.	1.2	0
96	QOL-53. METFORMIN RESULTS IN HIPPOCAMPAL REMODELING AND IMPROVED MEMORY ENCODING IN PAEDIATRIC BRAIN TUMOR SURVIVORS TREATED WITH CRANIAL RADIATION: A PILOT RANDOMIZED CONTROLLED CROSSOVER STUDY. <i>Neuro-Oncology</i> , 2018, 20, i168-i168.	1.2	0
97	MBCL-34. STRUCTURAL CONNECTIVITY ABNORMALITY IN CHILDREN TREATED FOR MEDULLOBLASTOMA. <i>Neuro-Oncology</i> , 2018, 20, i124-i124.	1.2	0
98	White Matter Integrity and Core Cognitive Function in Children Diagnosed with Sickle Cell Disease.. <i>Blood</i> , 2009, 114, 2589-2589.	1.4	0
99	Neurocognitive outcome in children with sensorineural hearing loss after treatment of malignant embryonal brain tumors.. <i>Journal of Clinical Oncology</i> , 2017, 35, 2029-2029.	1.6	0
100	QOL-40. THE IMPACT OF TASK COMPLEXITY ON INFORMATION PROCESSING SPEED AND NEURAL COMMUNICATION IN PAEDIATRIC BRAIN TUMOUR SURVIVORS. <i>Neuro-Oncology</i> , 2020, 22, iii438-iii438.	1.2	0
101	QOL-01. LONGITUDINAL COMPARISON OF NEUROCOGNITIVE TRAJECTORIES IN PEDIATRIC MEDULLOBLASTOMA PATIENTS TREATED WITH PROTON VERSUS PHOTON RADIOTHERAPY. <i>Neuro-Oncology</i> , 2020, 22, iii431-iii431.	1.2	0
102	RONC-03. NEUROCOGNITIVE CHANGES AFTER RADIATION FOR PEDIATRIC BRAIN TUMOURS: WHICH BRAIN SUBSTRUCTURES ARE MOST IMPORTANT?. <i>Neuro-Oncology</i> , 2020, 22, iii456-iii456.	1.2	0
103	Patterns of white and gray structural abnormality associated with paediatric demyelinating disorders. <i>NeuroImage: Clinical</i> , 2022, 34, 103001.	2.7	0
104	Abnormalities of Structural Brain Connectivity in Pediatric Brain Tumor Survivors. <i>Neuro-Oncology Advances</i> , 0, , .	0.7	0
105	QOL-28. Clinico-molecular correlates of quality of survival and neurocognitive outcomes in medulloblastoma; a meta-analysis of the SIOP-UKCCSG-PNET3 and HIT-SIOP-PNET4 trials. <i>Neuro-Oncology</i> , 2022, 24, i139-i140.	1.2	0
106	INSP-06. Recent advances in improving neuropsychological outcomes for paediatric brain tumour patients - Are we entering a new era?. <i>Neuro-Oncology</i> , 2022, 24, i187-i187.	1.2	0