

# Matthew O Parker

## List of Publications by Year in descending order

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95  
papers

7,803  
citations

136885

32  
h-index

53190

85  
g-index

110  
all docs

110  
docs citations

110  
times ranked

13136  
citing authors

#	ARTICLE	IF	CITATIONS
1	The genetic basis of early T-cell precursor acute lymphoblastic leukaemia. <i>Nature</i> , 2012, 481, 157-163.	13.7	1,430
2	Somatic histone H3 alterations in pediatric diffuse intrinsic pontine gliomas and non-brainstem glioblastomas. <i>Nature Genetics</i> , 2012, 44, 251-253.	9.4	1,402
3	Novel mutations target distinct subgroups of medulloblastoma. <i>Nature</i> , 2012, 488, 43-48.	13.7	742
4	The genomic landscape of hypodiploid acute lymphoblastic leukemia. <i>Nature Genetics</i> , 2013, 45, 242-252.	9.4	588
5	Alcohol use and misuse during the COVID-19 pandemic: a potential public health crisis?. <i>Lancet Public Health</i> , The, 2020, 5, e259.	4.7	437
6	Association of Age at Diagnosis and Genetic Mutations in Patients With Neuroblastoma. <i>JAMA - Journal of the American Medical Association</i> , 2012, 307, 1062.	3.8	379
7	An Inv(16)(p13.3q24.3)-Encoded CBFA2T3-GLIS2 Fusion Protein Defines an Aggressive Subtype of Pediatric Acute Megakaryoblastic Leukemia. <i>Cancer Cell</i> , 2012, 22, 683-697.	7.7	213
8	Molecular psychiatry of zebrafish. <i>Molecular Psychiatry</i> , 2015, 20, 2-17.	4.1	174
9	Housing Conditions Differentially Affect Physiological and Behavioural Stress Responses of Zebrafish, as well as the Response to Anxiolytics. <i>PLoS ONE</i> , 2012, 7, e34992.	1.1	121
10	The role of zebrafish ( <i>Danio rerio</i> ) in dissecting the genetics and neural circuits of executive function. <i>Frontiers in Neural Circuits</i> , 2013, 7, 63.	1.4	107
11	The utility of zebrafish to study the mechanisms by which ethanol affects social behavior and anxiety during early brain development. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2014, 55, 94-100.	2.5	83
12	Murine Antithymocyte Globulin Therapy Alters Disease Progression in NOD Mice by a Time-Dependent Induction of Immunoregulation. <i>Diabetes</i> , 2008, 57, 405-414.	0.3	74
13	Discrimination reversal and attentional sets in zebrafish ( <i>Danio rerio</i> ). <i>Behavioural Brain Research</i> , 2012, 232, 264-268.	1.2	65
14	Progressive Erosion of $\beta$ -Cell Function Precedes the Onset of Hyperglycemia in the NOD Mouse Model of Type 1 Diabetes. <i>Diabetes</i> , 2011, 60, 2086-2091.	0.3	64
15	Understanding autism and other neurodevelopmental disorders through experimental translational neurobehavioral models. <i>Neuroscience and Biobehavioral Reviews</i> , 2016, 65, 292-312.	2.9	63
16	Behavioral Phenotyping of <i>Casper</i> Mutant and 1-Pheny-2-Thiourea Treated Adult Zebrafish. <i>Zebrafish</i> , 2013, 10, 466-471.	0.5	56
17	Integration of <i>ERG</i> gene mapping and gene expression profiling identifies distinct categories of human prostate cancer. <i>BJU International</i> , 2009, 103, 1256-1269.	1.3	54
18	Development and implementation of a three-choice serial reaction time task for zebrafish ( <i>Danio</i> )	1.2	53

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19	Zebrafish as a Model of Neurodevelopmental Disorders. <i>Neuroscience</i> , 2020, 445, 3-11.	1.1	53
20	Comparison of Polar <sup>®</sup> heart rate interval data with simultaneously recorded ECG signals in horses. <i>Comparative Exercise Physiology</i> , 2009, 6, 137-142.	0.3	52
21	Survey of breeders's management of horses in Europe, North America and Australia: Comparison of factors associated with the development of abnormal behaviour. <i>Applied Animal Behaviour Science</i> , 2008, 114, 206-215.	0.8	50
22	Sustained Effects of Developmental Exposure to Ethanol on Zebrafish Anxiety-Like Behaviour. <i>PLoS ONE</i> , 2016, 11, e0148425.	1.1	47
23	The disrupted basal ganglia and behavioural control: An integrative cross-domain perspective of spontaneous stereotypy. <i>Behavioural Brain Research</i> , 2015, 276, 45-58.	1.2	46
24	Female adult zebrafish ( <i>Danio rerio</i> ) show higher levels of anxiety-like behavior than males, but do not differ in learning and memory capacity. <i>European Journal of Neuroscience</i> , 2020, 52, 2604-2613.	1.2	46
25	Genetic and environmental modulation of neurodevelopmental disorders: Translational insights from labs to beds. <i>Brain Research Bulletin</i> , 2016, 125, 79-91.	1.4	43
26	The Free-movement pattern Y-maze: A cross-species measure of working memory and executive function. <i>Behavior Research Methods</i> , 2021, 53, 536-557.	2.3	43
27	The role of stress-reactivity, stress-recovery and risky decision-making in psychosocial stress-induced alcohol consumption in social drinkers. <i>Psychopharmacology</i> , 2018, 235, 3243-3257.	1.5	41
28	Impaired instrumental choice in crib-biting horses ( <i>Equus caballus</i> ). <i>Behavioural Brain Research</i> , 2008, 191, 137-140.	1.2	40
29	Development and automation of a test of impulse control in zebrafish. <i>Frontiers in Systems Neuroscience</i> , 2013, 7, 65.	1.2	40
30	Exendin-4 Therapy in NOD Mice with New-Onset Diabetes Increases Regulatory T Cell Frequency. <i>Annals of the New York Academy of Sciences</i> , 2008, 1150, 152-156.	1.8	36
31	Causal factors of oral versus locomotor stereotypy in the horse. <i>Journal of Veterinary Behavior: Clinical Applications and Research</i> , 2017, 20, 37-43.	0.5	36
32	Effects of exposure to moderate levels of ethanol during prenatal brain development on dendritic length, branching, and spine density in the nucleus accumbens and dorsal striatum of adult rats. <i>Alcohol</i> , 2012, 46, 577-584.	0.8	35
33	Zebrafish models for attention deficit hyperactivity disorder (ADHD). <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 100, 9-18.	2.9	35
34	Atomoxetine reduces anticipatory responding in a 5-choice serial reaction time task for adult zebrafish. <i>Psychopharmacology</i> , 2014, 231, 2671-2679.	1.5	34
35	Assessing telomeric DNA content in pediatric cancers using whole-genome sequencing data. <i>Genome Biology</i> , 2012, 13, R113.	13.9	31
36	Assessing the Value of the Zebrafish Conditioned Place Preference Model for Predicting Human Abuse Potential. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017, 363, 66-79.	1.3	31

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37	Zebrafish ( <i>Danio rerio</i> ) behavioral laterality predicts increased short-term avoidance memory but not stress-reactivity responses. <i>Animal Cognition</i> , 2019, 22, 1051-1061.	0.9	31
38	Effect of low light and high noise on behavioural activity, physiological indicators of stress and production in laying hens. <i>British Poultry Science</i> , 2011, 52, 666-674.	0.8	29
39	Taurine modulates acute ethanol-induced social behavioral deficits and fear responses in adult zebrafish. <i>Journal of Psychiatric Research</i> , 2018, 104, 176-182.	1.5	29
40	The zebrafish ( <i>Danio rerio</i> ) anxiety test battery: comparison of behavioral responses in the novel tank diving and light-dark tasks following exposure to anxiogenic and anxiolytic compounds. <i>Psychopharmacology</i> , 2022, 239, 287-296.	1.5	29
41	Moderate alcohol exposure during early brain development increases stimulus-response habits in adulthood. <i>Addiction Biology</i> , 2016, 21, 49-60.	1.4	28
42	Neural modulators of temperament: A multivariate approach to personality trait identification in the horse. <i>Physiology and Behavior</i> , 2016, 167, 125-131.	1.0	28
43	Adult vertebrate behavioural aquatic toxicology: Reliability and validity. <i>Aquatic Toxicology</i> , 2016, 170, 323-329.	1.9	28
44	Psychosocial stress increases craving for alcohol in social drinkers: Effects of risk-taking. <i>Drug and Alcohol Dependence</i> , 2018, 185, 192-197.	1.6	28
45	Differential place and response learning in horses displaying an oral stereotypy. <i>Behavioural Brain Research</i> , 2009, 200, 100-105.	1.2	27
46	Moderate early life stress improves adult zebrafish ( <i>Danio rerio</i> ) working memory but does not affect social and anxiety-like responses. <i>Developmental Psychobiology</i> , 2021, 63, 54-64.	0.9	27
47	The impact of chronic environmental stressors on growing pigs, <i>Sus scrofa</i> (Part 1): stress physiology, production and play behaviour. <i>Animal</i> , 2010, 4, 1899-1909.	1.3	25
48	Developing a 3-choice serial reaction time task for examining neural and cognitive function in an equine model. <i>Journal of Neuroscience Methods</i> , 2017, 292, 45-52.	1.3	25
49	Applied neurophysiology of the horse; implications for training, husbandry and welfare. <i>Applied Animal Behaviour Science</i> , 2017, 190, 90-101.	0.8	25
50	Moderate developmental alcohol exposure reduces repetitive alternation in a zebrafish model of fetal alcohol spectrum disorders. <i>Neurotoxicology and Teratology</i> , 2018, 70, 1-9.	1.2	25
51	Species-specific behaviours in amphipods highlight the need for understanding baseline behaviours in ecotoxicology. <i>Aquatic Toxicology</i> , 2018, 202, 173-180.	1.9	25
52	The impact of chronic environmental stressors on growing pigs, <i>Sus scrofa</i> (Part 2): social behaviour. <i>Animal</i> , 2010, 4, 1910-1921.	1.3	23
53	Missense variants in the X-linked gene <i>PRPS1</i> cause retinal degeneration in females. <i>Human Mutation</i> , 2018, 39, 80-91.	1.1	23
54	Understanding the neurobiological effects of drug abuse: Lessons from zebrafish models. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2020, 100, 109873.	2.5	23

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55	Noise-Induced Stabilization in Population Dynamics. <i>Physical Review Letters</i> , 2011, 107, 180603.	2.9	22
56	Identification of slit3 as a locus affecting nicotine preference in zebrafish and human smoking behaviour. <i>ELife</i> , 2020, 9, .	2.8	21
57	Exendin-4 treatment of nonobese diabetic mice increases beta-cell proliferation and fractional insulin reactive area. <i>Journal of Diabetes and Its Complications</i> , 2010, 24, 163-167.	1.2	20
58	Chronic unpredictable early-life stress (CUELS) protocol: Early-life stress changes anxiety levels of adult zebrafish. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2021, 108, 110087.	2.5	20
59	Shape and size of the arenas affect amphipod behaviours: implications for ecotoxicology. <i>PeerJ</i> , 2018, 6, e5271.	0.9	20
60	Abnormal repetitive behaviors in zebrafish and their relevance to human brain disorders. <i>Behavioural Brain Research</i> , 2019, 367, 101-110.	1.2	18
61	Using zebrafish ( <i>Danio rerio</i> ) models to understand the critical role of social interactions in mental health and wellbeing. <i>Progress in Neurobiology</i> , 2022, 208, 101993.	2.8	18
62	Rabbit Polyclonal Mouse Antithymocyte Globulin Administration Alters Dendritic Cell Profile and Function in NOD Mice to Suppress Diabetogenic Responses. <i>Journal of Immunology</i> , 2009, 182, 4608-4615.	0.4	17
63	Screening for drugs to reduce zebrafish aggression identifies caffeine and sildenafil. <i>European Neuropsychopharmacology</i> , 2020, 30, 17-29.	0.3	17
64	Developmental role of acetylcholinesterase in impulse control in zebrafish. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 271.	1.0	16
65	Improving treatment of neurodevelopmental disorders: recommendations based on preclinical studies. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 11-25.	2.5	16
66	Potential role for selenium in the pathophysiology of crib-biting behavior in horses. <i>Journal of Veterinary Behavior: Clinical Applications and Research</i> , 2018, 23, 10-14.	0.5	16
67	Parallel Mechanisms for Visual Search in Zebrafish. <i>PLoS ONE</i> , 2014, 9, e111540.	1.1	16
68	Zebrafish ( <i>Danio rerio</i> ) models of substance abuse: Harnessing the capabilities. <i>Behaviour</i> , 2012, 149, 1037-1062.	0.4	14
69	Animal models of major depressive disorder and the implications for drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 365-378.	2.5	14
70	Overshadowing of geometric cues by a beacon in a spatial navigation task. <i>Learning and Behavior</i> , 2013, 41, 179-191.	0.5	13
71	Adolescents Care but Don't Feel Responsible for Farm Animal Welfare. <i>Society and Animals</i> , 2015, 23, 269-297.	0.1	13
72	Alterations of antioxidant status markers in dairy cows during lactation and in the dry period. <i>Journal of Dairy Research</i> , 2017, 84, 49-53.	0.7	13

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73	Acute-phase proteins, oxidative stress, and antioxidant defense in crib-biting horses. <i>Journal of Veterinary Behavior: Clinical Applications and Research</i> , 2017, 20, 31-36.	0.5	12
74	Causal and functional interpretation of mu- and delta-opioid receptor profiles in mesoaccumbens and nigrostriatal pathways of an oral stereotypy phenotype. <i>Behavioural Brain Research</i> , 2018, 353, 108-113.	1.2	12
75	Concomitant taurine exposure counteracts ethanol-induced changes in locomotor and anxiety-like responses in zebrafish. <i>Psychopharmacology</i> , 2020, 237, 735-743.	1.5	11
76	The importance of pH: How aquarium water is affecting behavioural responses to drug exposure in larval zebrafish. <i>Pharmacology Biochemistry and Behavior</i> , 2020, 199, 173066.	1.3	10
77	The cognitive and behavioral effects of D-amphetamine and nicotine sensitization in adult zebrafish. <i>Psychopharmacology</i> , 2021, 238, 2191-2200.	1.5	10
78	Dopaminergic modulation of working memory and cognitive flexibility in a zebrafish model of aging-related cognitive decline. <i>Neurobiology of Aging</i> , 2021, 102, 1-16.	1.5	10
79	The impact of water changes on stress and subject variation in a zebrafish ( <i>Danio rerio</i> ) anxiety-related task. <i>Journal of Neuroscience Methods</i> , 2021, 363, 109347.	1.3	10
80	Cross-species Analyses of Intra-species Behavioral Differences in Mammals and Fish. <i>Neuroscience</i> , 2020, 429, 33-45.	1.1	9
81	The effects of two stressors on working memory and cognitive flexibility in zebrafish ( <i>Danio rerio</i> ): The protective role of D1/D5 agonist on stress responses. <i>Neuropharmacology</i> , 2021, 196, 108681.	2.0	9
82	Zebrafish models of impulsivity and impulse control disorders. <i>European Journal of Neuroscience</i> , 2020, 52, 4233-4248.	1.2	8
83	High-Throughput Screening of Psychotropic Compounds: Impacts on Swimming Behaviours in <i>Artemia franciscana</i> . <i>Toxics</i> , 2021, 9, 64.	1.6	8
84	The impact of chronic unpredictable early-life stress (CUELS) on boldness and stress-reactivity: Differential effects of stress duration and context of testing. <i>Physiology and Behavior</i> , 2021, 240, 113526.	1.0	8
85	Role of Active Contraction and Tropomodulins in Regulating Actin Filament Length and Sarcomere Structure in Developing Zebrafish Skeletal Muscle. <i>Frontiers in Physiology</i> , 2016, 7, 91.	1.3	7
86	Zebrafish Behavioral Models of Ageing. , 2017, , 241-258.		7
87	Tricaine Methanesulfonate (MS222) Has Short-Term Effects on Young Adult Zebrafish ( <i>Danio rerio</i> ) Working Memory and Cognitive Flexibility, but Not on Aging Fish. <i>Frontiers in Behavioral Neuroscience</i> , 2021, 15, 686102.	1.0	5
88	Associations Between Self-reported Inhibitory Control, Stress, and Alcohol (Mis)use During the First Wave of the COVID-19 Pandemic in the UK: a National Cross-sectional Study Utilising Data From Four Birth Cohorts. <i>International Journal of Mental Health and Addiction</i> , 2023, 21, 350-371.	4.4	5
89	Translational Pharmacology of a Putative Measure of Motor Impulsivity in Larval Zebrafish. <i>Current Psychopharmacology</i> , 2016, 5, 73-84.	0.1	5
90	Low and moderate alcohol consumption during pregnancy: effects on social behaviour and propensity to develop substance abuse in later life. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2012, 119, 1671-1672.	1.1	3

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91	Higher olfactory sensitivity to coffee odour in habitual caffeine users.. Experimental and Clinical Psychopharmacology, 2020, 28, 245-250.	1.3	3
92	Modelling ADHD-Like Phenotypes in Zebrafish. Current Topics in Behavioral Neurosciences, 2022, , .	0.8	3
93	Modeling OCD Endophenotypes in Zebrafish. , 2017, , 131-143.		0
94	Editorial: Post-anesthesia Cognitive Dysfunction: How, When and Why. Frontiers in Behavioral Neuroscience, 2021, 15, 797483.	1.0	0
95	The critical impact of sex on preclinical alcohol research - insights from zebrafish. Frontiers in Neuroendocrinology, 2022, , 101014.	2.5	0