Ian Q Whishaw

List of Publications by Citations

74 papers	2,059 citations	26 h-index	44 g-index
76 ext. papers	2,338 ext. citations	3.3 avg, IF	4.96 L-index

#	Paper	IF	Citations
74	On the origin of skilled forelimb movements. *Trends in Neurosciences*, **2000**, 23, 372-6	13.3	174
73	Cervical motoneuron topography reflects the proximodistal organization of muscles and movements of the rat forelimb: a retrograde carbocyanine dye analysis. *Journal of Comparative Neurology*, **2000**, 419, 286-96	3.4	121
72	Red nucleus lesions impair overground locomotion in rats: a kinetic analysis. *European Journal of Neuroscience*, **2000**, 12, 1113-22	3.5	112
71	Hippocampectomized rats are impaired in homing by path integration. *Hippocampus*, **1999**, 9, 553-61	3.5	112
70	Varieties of paw and digit movement during spontaneous food handling in rats: postures, bimanual coordination, preferences, and the effect of forelimb cortex lesions. *Behavioural Brain Research*, **1996**, 77, 135-48	3.4	112
69	Impairment of pronation, supination, and body co-ordination in reach-to-grasp tasks in human Parkinson's disease (PD) reveals homology to deficits in animal models. *Behavioural Brain Research*, **2002**, 133, 165-76	3.4	111
68	Skilled forelimb movements in prey catching and in reaching by rats (Rattus norvegicus) and opossums (Monodelphis domestica): relations to anatomical differences in motor systems. *Behavioural Brain Research*, **1996**, 79, 163-81	3.4	84
67	Perseveration on place reversals in spatial swimming pool tasks: further evidence for place learning in hippocampal rats. *Hippocampus*, **1997**, 7, 361-70	3.5	83
66	An endpoint, descriptive, and kinematic comparison of skilled reaching in mice (Mus musculus) with rats (Rattus norvegicus). *Behavioural Brain Research*, **1996**, 78, 101-11	3.4	75
65	The problem of relating plasticity and skilled reaching after motor cortex stroke in the rat. *Behavioural Brain Research*, **2008**, 192, 124-36	3.4	70
64	Long-Evans and Sprague-Dawley rats have similar skilled reaching success and limb representations in motor cortex but different movements: some cautionary insights into the selection of rat strains for neurobiological motor research. *Behavioural Brain Research*, **2003**, 145, 221-32	3.4	62
63	Different evolutionary origins for the reach and the grasp: an explanation for dual visuomotor channels in primate parietofrontal cortex. *Frontiers in Neurology*, **2013**, 4, 208	4.1	59
62	Ground reaction forces in locomoting hemi-parkinsonian rats: a definitive test for impairments and compensations. *Experimental Brain Research*, **1999**, 126, 307-14	2.3	58
61	The development of a sex-differentiated defensive motor pattern in rats: A possible role for juvenile experience. *Developmental Psychobiology*, **1999**, 35, 156-164	3	56
60	Absence of impairments or recovery mediated by the uncrossed pyramidal tract in the rat versus enduring deficits produced by the crossed pyramidal tract. *Behavioural Brain Research*, **2002**, 134, 323-36	3.4	53
59	Did a change in sensory control of skilled movements stimulate the evolution of the primate frontal cortex?. *Behavioural Brain Research*, **2003**, 146, 31-41	3.4	45
58	Hand shaping in the rat: conserved release and collection vs. flexible manipulation in overground walking, ladder rung walking, cylinder exploration, and skilled reaching. *Behavioural Brain Research*, **2010**, 206, 21-31	3.4	40

57	Chronic levodopa therapy does not improve skilled reach accuracy or reach range on a pasta matrix reaching task in 6-OHDA dopamine-depleted (hemi-Parkinson analogue) rats. *European Journal of Neuroscience*, **2001**, 14, 27-37	3.5	39
56	Calibrating space: exploration is important for allothetic and idiothetic navigation. *Hippocampus*, **1999**, 9, 659-67	3.5	37
55	Development of rotational movements, hand shaping, and accuracy in advance and withdrawal for the reach-to-eat movement in human infants aged 6-12 months. *Research in Social and Administrative Pharmacy*, **2012**, 35, 543-60	2.9	36
54	Similarities in the development of place and cue navigation by rats in a swimming pool. *Developmental Psychobiology*, **2000**, 37, 238-45	3	36
53	Distinct forelimb and hind limb stepping impairments in unilateral dopamine-depleted rats: use of the rotorod as a method for the qualitative analysis of skilled walking. *Journal of Neuroscience Methods*, **2003**, 126, 13-23	3	35
52	The structure of skilled forelimb reaching in the rat: a movement rating scale. *Journal of Visualized Experiments*, **2008**,	1.6	34
51	Visual guidance for hand advance but not hand withdrawal in a reach-to-eat task in adult humans: reaching is a composite movement. *Journal of Motor Behavior*, **2008**, 40, 337-46	1.4	33
50	Unilateral frontal lobe contusion and forelimb function: chronic quantitative and qualitative impairments in reflexive and skilled forelimb movements in rats. *Journal of Neurotrauma*, **2004**, 21, 1584-600	5.4	30
49	Independent development of the Reach and the Grasp in spontaneous self-touching by human infants in the first 6 months. *Frontiers in Psychology*, **2014**, 5, 1526	3.4	27
48	Organization of the reach and grasp in head-fixed vs freely-moving mice provides support for multiple motor channel theory of neocortical organization. *Experimental Brain Research*, **2017**, 235, 1919-1932	2.3	24
47	Improved single pellet grasping using automated ad libitum full-time training robot. *Behavioural Brain Research*, **2015**, 281, 137-48	3.4	21
46	Drug treatment and familiar music aids an attention shift from vision to somatosensation in Parkinson's disease on the reach-to-eat task. *Behavioural Brain Research*, **2011**, 217, 391-8	3.4	19
45	A Proposal for a Rat Model of Spinal Cord Injury Featuring the Rubrospinal Tract and its Contributions to Locomotion and Skilled Hand Movement. *Frontiers in Neuroscience*, **2016**, 10, 5	5.1	18
44	The syntactic organization of pasta-eating and the structure of reach movements in the head-fixed mouse. *Scientific Reports*, **2017**, 7, 10987	4.9	16
43	The contribution of the reach and the grasp to shaping brain and behaviour. *Canadian Journal of Experimental Psychology*, **2014**, 68, 223-35	0.8	15
42	Hind limb stepping over obstacles in the horse guided by place-object memory. *Behavioural Brain Research*, **2009**, 198, 372-9	3.4	15
41	Data-driven analyses of motor impairments in animal models of neurological disorders. *PLoS Biology*, **2019**, 17, e3000516	9.7	15
40	Oral hapsis guides accurate hand preshaping for grasping food targets in the mouth. *Experimental Brain Research*, **2012**, 221, 223-40	2.3	14

39	The structure of arm and hand movements in a spontaneous and food rewarded on-line string-pulling task by the mouse. *Behavioural Brain Research*, **2018**, 345, 49-58	3.4	12
38	Complete and partial lesions of the pyramidal tract in the rat affect qualitative measures of skilled movements: impairment in fixations as a model for clumsy behavior. *Neural Plasticity*, **2003**, 10, 77-92	3.3	12
37	String-pulling for food by the rat: Assessment of movement, topography and kinematics of a bilaterally skilled forelimb act. *Learning and Motivation*, **2018**, 61, 63-73	1.3	11
36	The functional origins of speech-related hand gestures. *Behavioural Brain Research*, **2010**, 214, 206-15	3.4	11
35	Spatial mapping takes time. *Hippocampus*, **1998**, 8, 122-30	3.5	11
34	Unilateral forelimb sensorimotor cortex devascularization disrupts the topographic and kinematic characteristics of hand movements while string-pulling for food in the rat. *Behavioural Brain Research*, **2018**, 338, 88-100	3.4	10
33	Use of rotorod as a method for the qualitative analysis of walking in rat. *Journal of Visualized Experiments*, **2008**,	1.6	9
32	A mouseЂs spontaneous eating repertoire aids performance on laboratory skilled reaching tasks: A motoric example of instinctual drift with an ethological description of the withdraw movements in freely-moving and head-fixed mice. *Behavioural Brain Research*, **2018**, 337, 80-90	3.4	8
31	Low acetylcholine during early sleep is important for motor memory consolidation. *Sleep*, **2020**, 43,	1.1	7
30	The medial frontal cortex contributes to but does not organize rat exploratory behavior. *Neuroscience*, **2016**, 336, 1-11	3.9	6
29	Skilled movement and posture deficits in rat string-pulling behavior following low dose space radiation (Si) exposure. *Behavioural Brain Research*, **2021**, 400, 113010	3.4	6
28	Obstacle Avoidance amongst Parkinson Disease Patients Is Challenged in a Threatening Context. *Journal of Neurodegenerative Diseases*, **2013**, 2013, 787861		5
27	Dissociation of the Reach and the Grasp in the destriate (V1) monkey Helen: a new anatomy for the dual visuomotor channel theory of reaching. *Experimental Brain Research*, **2016**, 234, 2351-62	2.3	5
26	The Evolution of the Hand as a Tool in Feeding Behavior: The Multiple Motor Channel Theory of Hand Use. *Fascinating Life Sciences*, **2019**, 159-186	1.1	4
25	Absence of population asymmetry in the American Quarter Horse (Equus ferus caballus) performing skilled left and right manoeuvres in reining competition. *Laterality*, **2015**, 20, 604-17	2	4
24	Arm and hand movement: current knowledge and future perspective. *Frontiers in Neurology*, **2015**, 6, 19	4.1	4
23	A Matlab-based toolbox for characterizing behavior of rodents engaged in string-pulling. *ELife*, **2020**, 9,	8.9	4
22	Human string-pulling with and without a string: movement, sensory control, and memory. *Experimental Brain Research*, **2019**, 237, 3431-3447	2.3	4

21	Sniff, look and loop excursions as the unit of "exploration" in the horse (Equus ferus caballis) when free or under saddle in an equestrian arena. *Behavioural Processes*, **2020**, 173, 104065	1.6	3
20	Gaze anchoring guides real but not pantomime reach-to-grasp: support for the action-perception theory. *Experimental Brain Research*, **2018**, 236, 1091-1103	2.3	3
19	Tongue protrusions modify the syntax of skilled reaching for food by the mouse: Evidence for flexibility in action selection and shared hand/mouth central modulation of action. *Behavioural Brain Research*, **2018**, 341, 37-44	3.4	3
18	Synchrony of the Reach and the Grasp in pantomime reach-to-grasp. *Experimental Brain Research*, **2016**, 234, 3291-3303	2.3	3
17	Manganese-Enhanced Magnetic Resonance Imaging and Studies of Rat Behavior: Transient Motor Deficit in Skilled Reaching, Rears, and Activity in Rats After a Single Dose of MnCl. *Magnetic Resonance Insights*, **2017**, 10, 1178623X17706878	5	3
16	Cholinergic upregulation by optogenetic stimulation of nucleus basalis after photothrombotic stroke in forelimb somatosensory cortex improves endpoint and motor but not sensory control of skilled reaching in mice. *Journal of Cerebral Blood Flow and Metabolism*, **2021**, 41, 1608-1622	7.3	3
15	Hippocampectomized rats are impaired in homing by path integration **1999**, 9, 553		3
14	Mouse Arm and hand movements in grooming are reaching movements: Evolution of reaching, handedness, and the thumbnail. *Behavioural Brain Research*, **2020**, 393, 112732	3.4	2
13	A video demonstration of preserved piloting by scent tracking but impaired dead reckoning after fimbria-fornix lesions in the rat. *Journal of Visualized Experiments*, **2009**,	1.6	2
12	The temporal choreography of the yo-yo movement of getting spaghetti into the mouth by the head-fixed mouse. *Behavioural Brain Research*, **2020**, 381, 112241	3.4	2
11	A Neural Network Reveals Motoric Effects of Maternal Preconception Exposure to Nicotine on Rat Pup Behavior: A New Approach for Movement Disorders Diagnosis. *Frontiers in Neuroscience*, **2021**, 15, 686767	5.1	2
10	Frame-by-Frame Video Analysis of Idiosyncratic Reach-to-Grasp Movements in Humans. *Journal of Visualized Experiments*, **2018**,	1.6	1
9	The spandrel may be related to culture not brain function. *Behavioral and Brain Sciences*, **2001**, 24, 288-288	39	1
8	The hippocampus and path integration. *Behavioral and Brain Sciences*, **1999**, 22, 467-467	0.9	1
7	A toolbox for automated video analysis of rodents engaged in string-pulling: Phenotyping motor behavior of mice for sensory, whole-body and bimanual skilled hand function		1
6	Learning to cricket hunt by the laboratory mouse (Mus musculus): Skilled movements of the hands and mouth in cricket capture and consumption. *Behavioural Brain Research*, **2021**, 412, 113404	3.4	1
5	Challenges of a small world analysis for the continuous monitoring of behavior in mice.. *Neuroscience and Biobehavioral Reviews*, **2022**, 136, 104621	9	1
4	The mane effect in the horse (Equus ferus caballus): Right mane dominance enhanced in mares but not associated with left and right manoeuvres in a reining competition. *Laterality*, **2017**, 22, 495-513	2	0

3	Does play shape hand use skill in rats?. *Experimental Brain Research*, **2021**, 239, 1895-1909	2.3	0
2	Memory for surface objects in an arena by the horse (Equus ferus caballus) under saddle: Evidence for dual process theory of spatial representation. *Behavioural Processes*, **2021**, 189, 104442	1.6	0
1	Two types of memory-based (pantomime) reaches distinguished by gaze anchoring in reach-to-grasp tasks. *Behavioural Brain Research*, **2020**, 381, 112438	3.4	