

# Melissa M Holmes

## List of Publications by Year in descending order

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Version: 2024-02-01

60  
papers

1,733  
citations

279798

23  
h-index

315739

38  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1691  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adult hippocampal neurogenesis and voluntary running activity: Circadian and dose-dependent effects. <i>Journal of Neuroscience Research</i> , 2004, 76, 216-222.	2.9	206
2	The Green Anole ( <i>Anolis carolinensis</i> ): A Reptilian Model for Laboratory Studies of Reproductive Morphology and Behavior. <i>ILAR Journal</i> , 2004, 45, 54-64.	1.8	101
3	Social control of brain morphology in a eusocial mammal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10548-10552.	7.1	80
4	Low levels of estradiol facilitate, whereas high levels of estradiol impair, working memory performance on the radial arm maze. <i>Behavioral Neuroscience</i> , 2002, 116, 928-934.	1.2	80
5	Defensive behavior and hippocampal cell proliferation: Differential modulation by naltrexone during stress. <i>Behavioral Neuroscience</i> , 2002, 116, 160-168.	1.2	76
6	Neuroendocrinology and sexual differentiation in eusocial mammals. <i>Frontiers in Neuroendocrinology</i> , 2009, 30, 519-533.	5.2	67
7	The naked truth: a comprehensive clarification and classification of current "myths" in naked mole-rat biology. <i>Biological Reviews</i> , 2022, 97, 115-140.	10.4	62
8	Ramide-related peptide-3 (RFRP-3) suppresses sexual maturation in a eusocial mammal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1207-1212.	7.1	49
9	Social status and sex independently influence androgen receptor expression in the eusocial naked mole-rat brain. <i>Hormones and Behavior</i> , 2008, 54, 278-285.	2.1	48
10	Peripheral administration of oxytocin increases social affiliation in the naked mole-rat ( <i>Heterocephalus glaber</i> ). <i>Hormones and Behavior</i> , 2014, 65, 380-385.	2.1	45
11	miR-132/212 Modulates Seasonal Adaptation and Dendritic Morphology of the Central Circadian Clock. <i>Cell Reports</i> , 2017, 19, 505-520.	6.4	45
12	Task specialization and task switching in eusocial mammals. <i>Animal Behaviour</i> , 2015, 109, 227-233.	1.9	42
13	Social regulation of adult neurogenesis: A comparative approach. <i>Frontiers in Neuroendocrinology</i> , 2016, 41, 59-70.	5.2	37
14	Patterns of cell death in the perinatal mouse forebrain. <i>Journal of Comparative Neurology</i> , 2017, 525, 47-64.	1.6	37
15	The stress of being alone: Removal from the colony, but not social subordination, increases fecal cortisol metabolite levels in eusocial naked mole-rats. <i>Hormones and Behavior</i> , 2020, 121, 104720.	2.1	37
16	Stress in groups: Lessons from non-traditional rodent species and housing models. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 113, 354-372.	6.1	35
17	Removal of reproductive suppression reveals latent sex differences in brain steroid hormone receptors in naked mole-rats, <i>Heterocephalus glaber</i> . <i>Biology of Sex Differences</i> , 2015, 6, 31.	4.1	33
18	Postnatal Exocrine Pancreas Growth by Cellular Hypertrophy Correlates with a Shorter Lifespan in Mammals. <i>Developmental Cell</i> , 2018, 45, 726-737.e3.	7.0	32

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19	Effects of testosterone on the development of neuromuscular systems and their target tissues involved in courtship and copulation in green anoles ( <i>Anolis carolinensis</i> ). <i>Hormones and Behavior</i> , 2004, 45, 295-305.	2.1	31
20	Subcaste differences in neural activation suggest a prosocial role for oxytocin in eusocial naked mole-rats. <i>Hormones and Behavior</i> , 2016, 79, 1-7.	2.1	31
21	Socially regulated reproductive development: Analysis of GnRH $\alpha$ 1 and kisspeptin neuronal systems in cooperatively breeding naked mole-rats ( <i>Heterocephalus glaber</i> ). <i>Journal of Comparative Neurology</i> , 2013, 521, 3003-3029.	1.6	30
22	Seasonal plasticity in the copulatory neuromuscular system of green anole lizards: A role for testosterone in muscle but not motoneuron morphology. <i>Journal of Neurobiology</i> , 2004, 60, 1-11.	3.6	27
23	Effects of <i>Bax</i> gene deletion on social behaviors and neural response to olfactory cues in mice. <i>European Journal of Neuroscience</i> , 2011, 34, 1492-1499.	2.6	25
24	Olfaction and social cognition in eusocial naked mole-rats, <i>Heterocephalus glaber</i> . <i>Animal Behaviour</i> , 2015, 107, 175-181.	1.9	24
25	Sex- and brain region-specific patterns of gene expression associated with socially-mediated puberty in a eusocial mammal. <i>PLoS ONE</i> , 2018, 13, e0193417.	2.5	24
26	Sexual differentiation of the copulatory neuromuscular system in green anoles ( <i>Anolis carolinensis</i> ): Normal ontogeny and manipulation of steroid hormones. <i>Journal of Comparative Neurology</i> , 2005, 489, 480-490.	1.6	23
27	Single-cell mapper (scMappR): using scRNA-seq to infer the cell-type specificities of differentially expressed genes. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab011.	3.2	23
28	Morphine-induced activity attenuates phase shifts to light in C57BL/6J mice. <i>Brain Research</i> , 1999, 829, 113-119.	2.2	22
29	Androgen dependent seasonal changes in muscle fiber type in the dewlap neuromuscular system of green anoles. <i>Physiology and Behavior</i> , 2007, 91, 601-608.	2.1	21
30	Social and hormonal triggers of neural plasticity in naked mole-rats. <i>Behavioural Brain Research</i> , 2011, 218, 234-239.	2.2	20
31	Maternal effects in mammals: Broadening our understanding of offspring programming. <i>Frontiers in Neuroendocrinology</i> , 2021, 62, 100924.	5.2	20
32	Defensive behavior and hippocampal cell proliferation: differential modulation by naltrexone during stress. <i>Behavioral Neuroscience</i> , 2002, 116, 160-8.	1.2	20
33	Normally occurring intersexuality and testosterone induced plasticity in the copulatory system of adult leopard geckos. <i>Hormones and Behavior</i> , 2005, 47, 439-445.	2.1	19
34	Sex, social status, and CRF receptor densities in naked mole-rats. <i>Journal of Comparative Neurology</i> , 2016, 524, 228-243.	1.6	19
35	Aggression and motivation to disperse in eusocial naked mole-rats, <i>Heterocephalus glaber</i> . <i>Animal Behaviour</i> , 2020, 168, 45-58.	1.9	19
36	Characterization of projections from a sexually dimorphic motor nucleus in the spinal cord of adult green anoles. <i>Journal of Comparative Neurology</i> , 2004, 471, 180-187.	1.6	17

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37	Retinal ganglion cell survival and axon regeneration after optic nerve injury in naked mole-rats. <i>Journal of Comparative Neurology</i> , 2017, 525, 380-388.	1.6	17
38	Social Status and Sex Effects on Neural Morphology in Damaraland Mole-Rats, <i>&amp;lt;i&gt;Fukomys damarensis&amp;lt;/i&gt;</i> . <i>Brain, Behavior and Evolution</i> , 2011, 77, 291-298.	1.7	15
39	Solving the Neurogenesis Puzzle: Looking for Pieces Outside the Traditional Box. <i>Frontiers in Neuroscience</i> , 2017, 11, 505.	2.8	15
40	Social Behavior in Naked Mole-Rats: Individual Differences in Phenotype and Proximate Mechanisms of Mammalian Eusociality. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1319, 35-58.	1.6	15
41	A game of thrones: Neural plasticity in mammalian social hierarchies. <i>Social Neuroscience</i> , 2014, 9, 108-117.	1.3	14
42	Neuroendocrine regulation of pubertal suppression in the naked mole-rat: What we know and what comes next. <i>Molecular and Cellular Endocrinology</i> , 2021, 534, 111360.	3.2	14
43	Contrasting effects of opposite- versus same-sex housing on hormones, behavior and neurogenesis in a eusocial mammal. <i>Hormones and Behavior</i> , 2016, 81, 28-37.	2.1	13
44	Neuropeptidergic and Neuroendocrine Systems Underlying Eusociality and the Concomitant Social Regulation of Reproduction in Naked Mole-Rats: A Comparative Approach. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1319, 59-103.	1.6	12
45	Differential effects of chronic fluoxetine on the behavior of dominant and subordinate naked mole-rats. <i>Behavioural Brain Research</i> , 2014, 258, 119-126.	2.2	11
46	Androgen receptors and muscle: a key mechanism underlying life history trade-offs. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2018, 204, 51-60.	1.6	11
47	Androgen receptor distribution in the social decision-making network of eusocial naked mole-rats. <i>Behavioural Brain Research</i> , 2013, 256, 214-218.	2.2	10
48	Germ cell nests in adult ovaries and an unusually large ovarian reserve in the naked mole-rat. <i>Reproduction</i> , 2021, 161, 89-98.	2.6	9
49	Sexual dimorphism and hormone responsiveness in the spinal cord of the socially monogamous prairie vole ( <i>&lt;i&gt;Microtus ochrogaster&amp;lt;/i&gt;</i> ). <i>Journal of Comparative Neurology</i> , 2009, 516, 117-124.	1.6	7
50	Altered anxiety and defensive behaviors in Bax knockout mice. <i>Behavioural Brain Research</i> , 2013, 239, 115-120.	2.2	7
51	Naked mole-rats lack cold sensitivity before and after nerve injury. <i>Molecular Pain</i> , 2020, 16, 174480692095510.	2.1	7
52	Successful intracerebroventricular cannulation of a eusocial mammal. <i>Journal of Neuroscience Methods</i> , 2015, 239, 75-79.	2.5	5
53	Oxytocin Manipulation Alters Neural Activity in Response to Social Stimuli in Eusocial Naked Mole-Rats. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 272.	2.0	5
54	Adult Neural Plasticity in Naked Mole-Rats: Implications of Fossoriality, Longevity and Sociality on the Brain's Capacity for Change. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1319, 105-135.	1.6	5

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55	Naked Mole-Rat Social Phenotypes Vary in Investigative and Aggressive Behavior in a Laboratory Partner Preference Paradigm. <i>Frontiers in Ecology and Evolution</i> , 2022, 10, .	2.2	5
56	Queen Pregnancy Increases Group Estradiol Levels in Cooperatively Breeding Naked Mole-Rats. <i>Integrative and Comparative Biology</i> , 2021, , .	2.0	4
57	Both neural and global androgen receptor overexpression affect sexual dimorphism in the mouse brain. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12715.	2.6	2
58	Maintenance of the spinal nucleus of the bulbocavernosus neuromuscular system is not influenced by physiological levels of glucocorticoids. <i>Developmental Neurobiology</i> , 2012, 72, 1114-1121.	3.0	1
59	Some Exciting Future Directions for Work on Naked Mole-Rats. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1319, 409-420.	1.6	1
60	The Curious Case of the Naked Mole-Rat: How Extreme Social and Reproductive Adaptations Might Influence Sex Differences in the Brain. <i>Current Topics in Behavioral Neurosciences</i> , 2022, , 1.	1.7	0