Hynek Burda

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#	Paper	IF	Citations
74	Neuroanatomy of magnetoreception: the superior colliculus involved in magnetic orientation in a mammal. <i>Science</i> , 2001 , 294, 366-8	33.3	132
73	Magnetic alignment in grazing and resting cattle and deer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13451-5	11.5	108
72	Extremely low-frequency electromagnetic fields disrupt magnetic alignment of ruminants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5708-13	11.5	76
71	Sexual activity and reproduction delay ageing in a mammal. <i>Current Biology</i> , 2006 , 16, R117-8	6.3	75
70	The magnetic compass mechanisms of birds and rodents are based on different physical principles. <i>Journal of the Royal Society Interface</i> , 2006 , 3, 583-7	4.1	72
69	Magnetic alignment in mammals and other animals. <i>Mammalian Biology</i> , 2013 , 78, 10-20	1.6	68
68	Cochlea in old world mice and rats (Muridae). <i>Journal of Morphology</i> , 1988 , 198, 269-85	1.6	65
67	Silvery mole-rats (Heliophobius argenteocinereus, Bathyergidae) change their burrow architecture seasonally. <i>Die Naturwissenschaften</i> , 2003 , 90, 370-3	2	55
66	Directional preference may enhance hunting accuracy in foraging foxes. <i>Biology Letters</i> , 2011 , 7, 355-7	3.6	53
65	Dogs are sensitive to small variations of the Earth's magnetic field. Frontiers in Zoology, 2013, 10, 80	2.8	50
64	Extended longevity of reproductives appears to be common in Fukomys mole-rats (Rodentia, Bathyergidae). <i>PLoS ONE</i> , 2011 , 6, e18757	3.7	49
63	Living in a "stethoscope": burrow-acoustics promote auditory specializations in subterranean rodents. <i>Die Naturwissenschaften</i> , 2007 , 94, 134-8	2	49
62	Magnetic compass in the cornea: local anaesthesia impairs orientation in a mammal. <i>Journal of Experimental Biology</i> , 2006 , 209, 4747-50	3	49
61	Magnetoreception in the wood mouse (Apodemus sylvaticus): influence of weak frequency-modulated radio frequency fields. <i>Scientific Reports</i> , 2015 , 4, 9917	4.9	44
60	Cost of digging is determined by intrinsic factors rather than by substrate quality in two subterranean rodent species. <i>Physiology and Behavior</i> , 2010 , 99, 54-8	3.5	43
59	Cryptochrome 1 in Retinal Cone Photoreceptors Suggests a Novel Functional Role in Mammals. <i>Scientific Reports</i> , 2016 , 6, 21848	4.9	40
58	Microclimate in Burrows of Subterranean Rodents [Revisited 2007 , 21-33		39

(2015-2012)

57	Burrow architecture, family composition and habitat characteristics of the largest social African mole-rat: the giant mole-rat constructs really giant burrow systems. <i>Acta Theriologica</i> , 2012 , 57, 121-13	0	37	
56	Patterns of surface temperatures in two mole-rats (Bathyergidae) with different social systems as revealed by IR-thermography. <i>Physiology and Behavior</i> , 2007 , 92, 526-32	3.5	37	
55	Changing and shielded magnetic fields suppress c-Fos expression in the navigation circuit: input from the magnetosensory system contributes to the internal representation of space in a subterranean rodent. <i>Journal of the Royal Society Interface</i> , 2010 , 7, 1275-92	4.1	36	
54	Home-Range Dynamics in a Solitary Subterranean Rodent. <i>Ethology</i> , 2009 , 115, 217-226	1.7	35	
53	Magnetic alignment in carps: evidence from the Czech christmas fish market. <i>PLoS ONE</i> , 2012 , 7, e5110	03.7	31	
52	Long-lived rodents reveal signatures of positive selection in genes associated with lifespan. <i>PLoS Genetics</i> , 2018 , 14, e1007272	6	27	
51	Acoustic communication and burrow acoustics are reflected in the ear morphology of the coruro (Spalacopus cyanus, Octodontidae), a social fossorial rodent. <i>Journal of Morphology</i> , 2006 , 267, 382-90	1.6	27	
50	Odours underground: subterranean rodents may not forage "blindly". <i>Behavioral Ecology and Sociobiology</i> , 2002 , 52, 53-58	2.5	26	
49	ECOLOGICAL DETERMINANTS OF VOCALISATION PARAMETERS: THE CASE OF THE CORURO SPALACOPUS CYANUS (OCTODONTIDAE), A FOSSORIAL SOCIAL RODENT. <i>Bioacoustics</i> , 2000 , 11, 129-1	48 ⁶	26	
48	Sociality does not drive the evolution of large brains in eusocial African mole-rats. <i>Scientific Reports</i> , 2018 , 8, 9203	4.9	25	
47	Directional compass preference for landing in water birds. Frontiers in Zoology, 2013, 10, 38	2.8	22	
46	Vocalizations of the giant mole-rat (Fukomys mechowii), a subterranean rodent with the richest vocal repertoire. <i>Bioacoustics</i> , 2013 , 22, 87-107	1.6	22	
45	Magnetoreception in Mammals. Advances in the Study of Behavior, 2014, 45-88	3.4	21	
44	Compass-controlled escape behavior in roe deer. <i>Behavioral Ecology and Sociobiology</i> , 2016 , 70, 1345-13	3 5 55	19	
43	Magnetically induced behaviour of ferritin corpuscles in avian ears: can cuticulosomes function as magnetosomes?. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141087	4.1	17	
42	Health effects of extremely low-frequency magnetic fields: reconsidering the melatonin hypothesis in the light of current data on magnetoreception. <i>Journal of Applied Toxicology</i> , 2012 , 32, 952-8	4.1	17	
41	Variability of space-use patterns in a free living eusocial rodent, Ansell's mole-rat indicates age-based rather than caste polyethism. <i>Scientific Reports</i> , 2016 , 6, 37497	4.9	16	
40	Surprisingly low risk of overheating during digging in two subterranean rodents. <i>Physiology and Behavior</i> , 2015 , 138, 236-41	3.5	15	

39	Ovarian growth and folliculogenesis in breeding and nonbreeding females of a social rodent, the Zambian common mole-rat, Cryptomys sp. <i>Journal of Morphology</i> , 1998 , 237, 33-41	1.6	15
38	VOCALISATIONS OF THE SILVERY MOLE-RAT: COMPARISON OF VOCAL REPERTOIRES IN SUBTERRANEAN RODENTS WITH DIFFERENT SOCIAL SYSTEMS. <i>Bioacoustics</i> , 2009 , 18, 241-257	1.6	14
37	Unusual ratio between free thyroxine and free triiodothyronine in a long-lived mole-rat species with bimodal ageing. <i>PLoS ONE</i> , 2014 , 9, e113698	3.7	14
36	Surprisingly long survival of premature conclusions about naked mole-rat biology. <i>Biological Reviews</i> , 2021 , 96, 376-393	13.5	14
35	Magnetic alignment in warthogs Phacochoerus africanus and wild boars Sus scrofa. <i>Mammal Review</i> , 2017 , 47, 1-5	5	12
34	A behavioral audiogram of the red fox (Vulpes vulpes). <i>Hearing Research</i> , 2015 , 320, 30-7	3.9	12
33	Giant Mole-rats, Fukomys mechowii, 13 Years on the Stage 2007 , 205-219		12
32	Taxonomic status and remarks on ecology of the Malawian mole-ratCryptomys whytei (Rodentia, Bathyergidae). <i>Acta Theriologica</i> , 2005 , 50, 529-536		11
31	Attracted by a magnet: Exploration behaviour of rodents in the presence of magnetic objects. <i>Behavioural Processes</i> , 2018 , 151, 11-15	1.6	10
30	Does magnetoreception mediate biological effects of power-frequency magnetic fields?. <i>Science of the Total Environment</i> , 2012 , 417-418, 299-304	10.2	10
29	Dogs can be trained to find a bar magnet. <i>PeerJ</i> , 2018 , 6, e6117	3.1	10
28	Temperature preferences of African mole-rats (family Bathyergidae). <i>Journal of Thermal Biology</i> , 2015 , 53, 15-22	2.9	9
27	Higher resting metabolic rate in long-lived breeding Ansell's mole-rats (). <i>Frontiers in Zoology</i> , 2017 , 14, 45	2.8	9
26	To mate or not to mate? Mate preference and fidelity in monogamous Ansell's mole-rats,Fukomys anselli, Bathyergidae. <i>Folia Zoologica</i> , 2012 , 61, 71-83	1.3	9
25	Directional preference in dogs: Laterality and "pull of the north". PLoS ONE, 2017, 12, e0185243	3.7	9
24	Learned and spontaneous magnetosensitive behaviour in the Roborovski hamster (Phodopus roborovskii). <i>Ethology</i> , 2018 , 124, 423-431	1.7	8
23	Do subterranean mammals use the Earth's magnetic field as a heading indicator to dig straight tunnels?. <i>PeerJ</i> , 2018 , 6, e5819	3.1	8
22	Does the morphology of the ear of the Chinese bamboo rat (Rhizomys sinensis) show "Subterranean" characteristics?. <i>Journal of Morphology</i> , 2016 , 277, 575-84	1.6	7

21	Magnetic Compass: A Useful Tool Underground 2007 , 161-174		7
20	Increased longevity due to sexual activity in mole-rats is associated with transcriptional changes in the HPA stress axis. <i>ELife</i> , 2021 , 10,	8.9	7
19	Retinal S-opsin dominance in Ansell's mole-rats (Fukomys anselli) is a consequence of naturally low serum thyroxine. <i>Scientific Reports</i> , 2018 , 8, 4337	4.9	5
18	Morphology of the carpal region in some rodents with special emphasis on hystricognaths. <i>Acta Zoologica</i> , 2014 , 95, 220-238	0.8	5
17	Direction indicator and magnetic compass-aided tracking of the sun by flamingos?. <i>Folia Zoologica</i> , 2017 , 66, 79-86	1.3	5
16	Magnetoreception in Mammals 2020 , 421-444		5
15	Non-Breeding Eusocial Mole-Rats Produce Viable SpermSpermiogram and Functional Testicular Morphology of Fukomys anselli. <i>PLoS ONE</i> , 2016 , 11, e0150112	3.7	5
14	Functional anatomy of the middle and inner ears of the red fox, in comparison to domestic dogs and cats. <i>Journal of Anatomy</i> , 2020 , 236, 980-995	2.9	4
13	Directional orientation of pheasant chicks at the drinking dish and its potential for research on avian magnetoreception. <i>Folia Zoologica</i> , 2017 , 66, 175-182	1.3	4
12	How to eat a carrot? Convergence in the feeding behavior of subterranean rodents. <i>Die Naturwissenschaften</i> , 1999 , 86, 325-327	2	4
11	Magnetic alignment enhances homing efficiency of hunting dogs. ELife, 2020, 9,	8.9	4
10	Vocal recognition of a nest-predator in black grouse. <i>PeerJ</i> , 2019 , 7, e6533	3.1	4
9	Brain atlas of the African mole-rat Fukomys anselli. Journal of Comparative Neurology, 2019, 527, 1885-	19,040	3
8	Light-independent magnetosensitive behaviour in the Djungarian hamster (Phodopus sungorus). <i>Mammalian Biology</i> , 2018 , 91, 91-94	1.6	3
7	Effect of exposure to extremely low frequency magnetic fields on melatonin levels in calves is seasonally dependent. <i>Scientific Reports</i> , 2015 , 5, 14206	4.9	3
6	The HPA stress axis shapes aging rates in long-lived, social mole-rats		2
5	Turning preference in dogs: North attracts while south repels. PLoS ONE, 2021, 16, e0245940	3.7	2
4	Functional histology of the skin in the subterranean African giant mole-rat: thermal windows are determined solely by pelage characteristics. <i>PeerJ</i> , 2020 , 8, e8883	3.1	1

3 Observation of rescue behaviour in wild boar (Sus scrofa). *Scientific Reports*, **2021**, 11, 16217

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- Investigating the impact of weak geomagnetic fluctuations on pigeon races.. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology,* **2022**, 208, 177
- Sensory perception of mole-rats and mole rats: assessment of a complex natural global evolutionary Experiment [2021, 161-191]