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Mgr. Pavel Němec. Ph.D.

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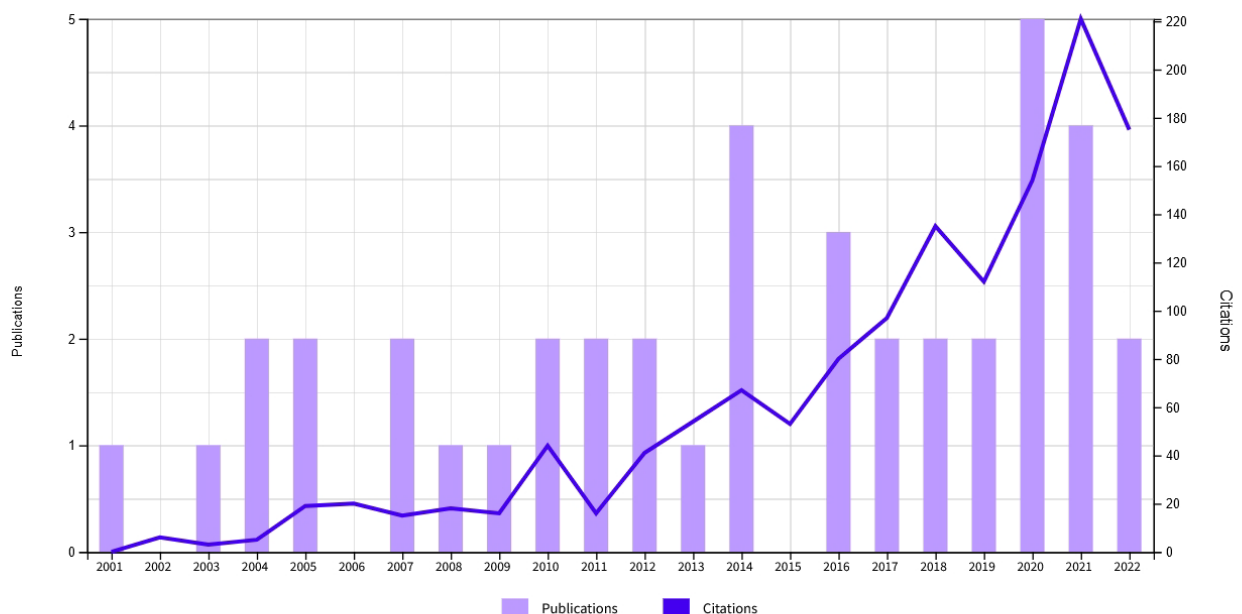
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47

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11

16

20

16

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5

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4

11

1

64.33

35.71

11.5

4.55

1,351

250

138

100

Birds have primate-like numbers of neurons in the forebrain

1

Olkowicz, S.; Kocourek, M.; (-); Nemecek, P.

Jun 28 2016 | PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 113 (26), pp.7255-7260

The Distribution of Toxoplasma gondii Cysts in the Brain of a Mouse with Latent Toxoplasmosis: Implications for the Behavioral Manipulation Hypothesis

2

Berenreiterova, M.; Flegel, J.; (-); Nemecek, P.

Dec 14 2011 | PLOS ONE 6 (12)

Neuroanatomy of magnetoreception: The superior colliculus involved in magnetic orientation in a mammal

3

Nemecek, P.; Altmann, J.; (-); Oelschlaeger, H.H.A.

Oct 12 2001 | SCIENCE 294 (5541), pp.366-368

41 Publications		Sort by: Citations: highest first		< 1 of 1 >		Citations						
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4	A community-based transcriptomics classification and nomenclature of neocortical cell types Yuste, R; Hawrylycz, M; (...); Lein, E Dec 2020 Aug 2020 (Early Access) NATURE NEUROSCIENCE 23 (12) , pp.1456-1468	0	0	4	47	35	28.67	86				
5	Magnetic alignment in mammals and other animals Begall, S; Malkemper, EP; (...); Burda, H 2013 MAMMALIAN BIOLOGY 78 (1) , pp.10-20	11	4	10	4	9	6.6	66				
6	Extremely low-frequency electromagnetic fields disrupt magnetic alignment of ruminants Burda, H; Begall, S; (...); Nemec, P Apr 7 2009 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 106 (14) , pp.5708-5713	8	3	3	8	3	4.71	66				
7	Unusual cone and rod properties in subterranean African mole-rats (Rodentia, Bathyergidae) Peichl, L; Nemec, P and Burda, H Mar 2004 EUROPEAN JOURNAL OF NEUROSCIENCE 19 (6) , pp.1545-1558	4	2	2	4	2	3.47	66				
8	The visual system in subterranean African mole-rats (Rodentia, Bathyergidae): Retina, subcortical visual nuclei and primary visual cortex Nemec, P; Cvekova, P; (...); Peichl, L 5th European Conference on Comparative Neurobiology Mar 18 2008 BRAIN RESEARCH BULLETIN 75 (2-4) , pp.356-364	5	3	7	1	2	3.6	54				
9	Subcortical visual system of the African mole-rat Cryptomys anselli: to see or not to see? Nemec, P; Burda, H and Peichl, L Aug 2004 EUROPEAN JOURNAL OF NEUROSCIENCE 20 (3) , pp.757-768	4	2	2	3	2	2.58	49				
10	Evolution and Development of the Mammalian Cerebral Cortex Molnar, Z; Kaas, JH; (...); Nemec, P 2014 BRAIN BEHAVIOR AND EVOLUTION 83 (2) , pp.126-139	4	5	6	7	5	5.22	47				
11	Visual systems and the role of vision in subterranean rodents: Diversity of retinal properties and visual system designs Nemec, P; Cvekova, P; (...); Peichl, L Symposium on Light from Underground - Challenges and Insights in the Third Decade of Research on Subterranean Rodents held at the 9th International Mammalogical Congress 2007 SUBTERRANEAN RODENTS: NEWS FROM UNDERGROUND , pp.129 +	3	2	1	4	2	2.63	42				
12	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 Burger, T; Lucova, M; (...); Nemec, P Sep 6 2010 JOURNAL OF THE ROYAL SOCIETY INTERFACE 7 (50) , pp.1275-1292	3	1	5	2	1	2.77	36				
13	Light Perception in Two Strictly Subterranean Rodents: Life in the Dark or Blue? Kott, O; Sumbera, R and Nemec, P Jul 28 2010 PLOS ONE 5 (7)	7	2	3	4	3	2.54	33				
14	Sociality does not drive the evolution of large brains in eusocial African mole-rats Kverkova, K; Belikova, T; (...); Nemec, P Jun 15 2018 SCIENTIFIC REPORTS 8	0	10	5	10	5	6	30				
15	Magnetic Alignment in Carps: Evidence from the Czech Christmas Fish Market Hart, V; Kusta, T; (...); Burda, H Dec 5 2012 PLOS ONE 7 (12)	2	4	0	3	2	2.64	29				

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16	Magnetic compass orientation in two strictly subterranean rodents: learned or species-specific innate directional preference? Oliveriusova, L.; Nemes, P. (---); Sedlacek, F Oct 2012 JOURNAL OF EXPERIMENTAL BIOLOGY 215 (20) , pp.3649-3654	6	1	2	7	4	2.64	29						
17	Artificial selection on brain size leads to matching changes in overall number of neurons Marhounova, L.; Kotrschal, A. (---); Nemes, P Sep 2019 Aug 2019 (Early Access) EVOLUTION 73 (9) , pp.2003-2012	0	3	7	9	7	6.5	26						
18	Further support for the alignment of cattle along magnetic field lines: reply to Hert et al. Begall, S; Burda, H; (---); Nemes, P Dec 2011 JOURNAL OF COMPARATIVE PHYSIOLOGY A-NEUROETHOLOGY SENSORY NEURAL AND BEHAVIORAL PHYSIOLOGY 197 (12) , pp.1127-1133	3	3	1	1	0	2.08	25						
19	Light propagation in burrows of subterranean rodents: tunnel system architecture but not photoreceptor sensitivity limits light sensation range Kott, O; Moritz, RE; (---); Nemes, P Sep 2014 JOURNAL OF ZOOLOGY 294 (1) , pp.67-75	6	0	1	5	2	2.11	19						
20	Towards the neural basis of magnetoreception: a neuroanatomical approach Nemes, P; Burda, H and Oelschlaeger, HHA Apr 2005 NATURWISSENSCHAFTEN 92 (4) , pp.151-157	0	0	0	0	0	0.94	17						
21	Brain size and neuron numbers drive differences in yawn duration across mammals and birds Massen, JJM; Hartlieb, M; (---); Gallup, AC May 6 2021 COMMUNICATIONS BIOLOGY 4 (1)	0	0	0	3	11	7	14						
22	The topography of rods, cones and intrinsically photosensitive retinal ganglion cells in the retinas of a nocturnal (<i>Micaelamys namaquensis</i>) and a diurnal (<i>Rhabdomys pumilio</i>) rodent van der Merwe, J; Lukats, A; (---); Nemes, P Aug 9 2018 PLOS ONE 13 (8)	0	2	4	5	3	2.8	14						
23	Absolute, not relative brain size correlates with sociality in ground squirrels Mateju, J; Kratochvil, L; (---); Nemes, P Mar 30 2016 PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 283 (1827)	2	3	3	1	4	2	14						
24	Spontaneous expression of magnetic compass orientation in an epigeic rodent: the bank vole, <i>Clethrionomys glareolus</i> Oliveriusova, L; Nemes, P; (---); Sedlacek, F Jul 2014 NATURWISSENSCHAFTEN 101 (7) , pp.557-563	6	0	0	1	0	1.22	11						
25	Odours stimulate neuronal activity in the dorsolateral area of the hippocampal formation during path integration Jorge, PE; Phillips, JB; (---); Nemes, P May 22 2014 PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 281 (1783)	4	0	0	0	1	1.22	11						
26	Magnetic compass: A useful tool underground Moritz, RE; Burda, H; (---); Nemes, P Symposium on Light from Underground - Challenges and Insights in the Third Decade of Research on Subterranean Rodents held at the 9th International Mammalogical Congress 2007 SUBTERRANEAN RODENTS: NEWS FROM UNDERGROUND , pp.161+	2	1	0	2	0	0.63	10						

41 Publications		Sort by: Citations: highest first		< 1 of 1 >		Citations								
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27	Determinate growth is predominant and likely ancestral in squamate reptiles Frydlova, P; Mrzilkova, J; (...); Frynta, D Dec 23 2020 PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES 287 (1941)	0	0	0	4	4	2.67	8						
28	Patterns of growth in monitor lizards (Varanidae) as revealed by computed tomography of femoral growth plates Frydlova, P; Nutilova, V; (...); Frynta, D Mar 2017 ZOOMORPHOLOGY 136 (1) , pp.95-106	1	2	3	0	2	1.33	8						
29	Behavioural Tests Reveal Severe Visual Deficits in the Strictly Subterranean African Mole-Rats (Bathyergidae) but Efficient Vision in the Fossorial Rodent Coruro (Spalacopus cyanus, Octodontidae) Kott, O; Nemecek, P; (...); Sumbera, R Aug 2016 ETHOLOGY 122 (8) , pp.682-694	2	1	0	1	1	1.14	8						
30	Eyes are essential for magnetoreception in a mammal Caspar, KB; Moldenhauer, K; (...); Begall, S Sep 30 2020 JOURNAL OF THE ROYAL SOCIETY INTERFACE 17 (170)	0	0	0	4	3	2.33	7						
31	The evolution of brain neuron numbers in amniotes Kverkova, K; Marhounova, L; (...); Nemecek, P Mar 15 2022 PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA 119 (11)	0	0	0	0	6	6	6						
32	Individual and age-related variation of cellular brain composition in a squamate reptile Kverkova, K; Polonyiova, A; (...); Nemecek, P Sep 30 2020 BIOLOGY LETTERS 16 (9)	0	0	0	2	3	1.67	5						
33	The evolution of brain structure captured in stereotyped cell count and cell type distributions Nemecek, P and Osten, P Feb 2020 CURRENT OPINION IN NEUROBIOLOGY 60 , pp.176-183	0	0	1	1	3	1.67	5						
34	Selective binocular vision loss in two subterranean caviomorph rodents: Spalacopus cyanus and Ctenomys talarum Vega-Zuniga, T; Medina, FS; (...); Mpodozis, J Feb 2 2017 SCIENTIFIC REPORTS 7	0	2	2	0	1	0.83	5						
35	Long-term stability of sex chromosome gene content allows accurate qPCR-based molecular sexing across birds Mazzoleni, S; Nemecek, P; (...); Rovatsos, M Aug 2021 Apr 2021 (Early Access) MOLECULAR ECOLOGY RESOURCES 21 (6) , pp.2013-2021	0	0	0	3	1	2	4						
36	Universality of indeterminate growth in lizards rejected: the micro-CT reveals contrasting timing of growth cartilage persistence in iguanas, agamas, and chameleons Frydlova, P; Mrzilkova, J; (...); Zach, P Dec 12 2019 SCIENTIFIC REPORTS 9	0	0	2	0	2	1	4						
37	Middle ear ossicles as a diagnostic trait in African mole-rats (rodentia : Bathyergidae) Lange, S; Burda, H; (...); Nemecek, P 5th International Symposium on Tropical Biology 2005 AFRICAN BIODIVERSITY: MOLECULES, ORGANISMS, ECOSYSTEMS , pp.329-337	0	0	0	0	0	0.22	4						
38	S-Cone dominance in the retinae of subterranean African mole-rats (Rodentia, Bathyergidae) Peichl, L; Nemecek, P and Burda, H Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology May 2003 INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE 44 , pp.U457-U457	0	0	0	0	0	0.1	2						

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39	Neuron numbers link innovativeness with both absolute and relative brain size in birds	Sol, D; Olkowicz, S; (...); Nemes, P	Sep 2022 Jul 2022 (Early Access) NATURE ECOLOGY & EVOLUTION 6 (9) , pp.1381-1389	0	0	0	0	1	1	1				
40	Expression of cell markers and transcription factors in the avian retina compared with that in the marmoset retina	Haverkamp, S; Albert, L; (...); Dedek, K	Aug 2021 May 2021 (Early Access) JOURNAL OF COMPARATIVE NEUROLOGY 529 (12) , pp.3171-3193	0	0	0	1	0	0.5	1				
41	Comparison of plasma and cerebrospinal fluid proteomes identifies gene products guiding adult neurogenesis and neural differentiation in birds	Voukali, E; Veetil, NK; (...); Vinkler, M	Mar 5 2021 SCIENTIFIC REPORTS 11 (1)	0	0	0	0	1	0.5	1				

V Praze dne 15. 12. 2022

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