

# Radim Å umbera

## List of Publications by Year in descending order

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115  
papers

2,725  
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docs citations

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times ranked

1883  
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#	ARTICLE	IF	CITATIONS
1	Adaptations to a Subterranean Environment and Longevity Revealed by the Analysis of Mole Rat Genomes. <i>Cell Reports</i> , 2014, 8, 1354-1364.	2.9	162
2	Pan-African phylogeny of <i>Mus</i> (subgenus <i>Nannomys</i> ) reveals one of the most successful mammal radiations in Africa. <i>BMC Evolutionary Biology</i> , 2014, 14, 256.	3.2	75
3	Microclimate in Burrows of Subterranean Rodents " Revisited. , 2007, , 21-33.		63
4	Extended Longevity of Reproductives Appears to be Common in <i>Fukomys</i> Mole-Rats (Rodentia,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62	1.1	62
5	Silvery mole-rats ( <i>Heliophobius argenteocinereus</i> , Bathyergidae) change their burrow architecture seasonally. <i>Die Naturwissenschaften</i> , 2003, 90, 370-373.	0.6	61
6	Microclimatic stability in burrows of an Afrotropical solitary bathyergid rodent, the silvery mole-rat ( <i>Heliophobius argenteocinereus</i> ). <i>Journal of Zoology</i> , 2004, 263, 409-416.	0.8	58
7	Possible incipient sympatric ecological speciation in blind mole rats ( <i>Spalax</i> ). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2587-2592.	3.3	58
8	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, 54-58.	1.0	54
9	Thermal biology of a strictly subterranean mammalian family, the African mole-rats (Bathyergidae,) Tj ETQq1 1 0.784314 rgBT /Overlo	1.1	52
10	Continuous dental replacement in a hyper-chisel tooth digging rodent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 17355-17359.	3.3	48
11	Reticulate Pleistocene evolution of Ethiopian rodent genus along remarkable altitudinal gradient. <i>Molecular Phylogenetics and Evolution</i> , 2018, 118, 75-87.	1.2	48
12	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, 121-130.	1.1	47
13	Life in Burrows Channelled the Morphological Evolution of the Skull in Rodents: the Case of African Mole-Rats (Bathyergidae, Rodentia). <i>Journal of Mammalian Evolution</i> , 2016, 23, 175-189.	1.0	47
14	Evolutionary history of the thicket rats (genus <i>Grammomys</i> ) mirrors the evolution of African forests since late Miocene. <i>Journal of Biogeography</i> , 2017, 44, 182-194.	1.4	47
15	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, 526-532.	1.0	46
16	Spatial and Temporal Activity Patterns of the Free-Living Giant Mole-Rat ( <i>Fukomys mechowii</i> ), the Largest Social Bathyergid. <i>PLoS ONE</i> , 2013, 8, e55357.	1.1	46
17	REPRODUCTIVE BIOLOGY OF A SOLITARY SUBTERRANEAN BATHYERGID RODENT, THE SILVERY MOLE-RAT ( <i>HELIOPHOBIUS ARGENTEOCINEREUS</i> ). <i>Journal of Mammalogy</i> , 2003, 84, 278-287.	0.6	45
18	Natural history and burrow system architecture of the silvery mole-rat from <i>Brachystegia</i> woodland. <i>Journal of Zoology</i> , 2008, 274, 77-84.	0.8	45

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19	A maze-lover's dream: Burrow architecture, natural history and habitat characteristics of Ansell's mole-rat ( <i>Fukomys anselli</i> ). <i>Mammalian Biology</i> , 2012, 77, 420-427.	0.8	43
20	Habitat and Burrow System Characteristics of the Blind Mole Rat <i>Spalax galili</i> in an Area of Supposed Sympatric Speciation. <i>PLoS ONE</i> , 2015, 10, e0133157.	1.1	43
21	Cross-Cultural Agreement in Perception of Animal Beauty: Boid Snakes Viewed by People from Five Continents. <i>Human Ecology</i> , 2011, 39, 829-834.	0.7	42
22	Annotated checklist, taxonomy and distribution of rodents in Ethiopia. <i>Folia Zoologica</i> , 2019, 68, 117.	0.9	41
23	Energetics in a solitary subterranean rodent, the silvery mole-rat, <i>Heliophobius argenteocinereus</i> , and allometry of RMR in African mole-rats ( <i>Bathyergidae</i> ). <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 147, 412-419.	0.8	38
24	Light Perception in Two Strictly Subterranean Rodents: Life in the Dark or Blue?. <i>PLoS ONE</i> , 2010, 5, e11810.	1.1	38
25	Homeâ€”Range Dynamics in a Solitary Subterranean Rodent. <i>Ethology</i> , 2009, 115, 217-226.	0.5	37
26	The phylogeography of the rodent genus <i>Malacomys</i> suggests multiple Afrotropical Pleistocene lowland forest refugia. <i>Journal of Biogeography</i> , 2015, 42, 2049-2061.	1.4	37
27	Sociality does not drive the evolution of large brains in eusocial African mole-rats. <i>Scientific Reports</i> , 2018, 8, 9203.	1.6	36
28	The role of dispersal and vicariance in the Pleistocene history of an African mountain rodent, <i>Peromyscus delectorum</i> . <i>Journal of Biogeography</i> , 2014, 41, 196-208.	1.4	35
29	Diversity and evolution of African Grass Rats ( <i>Muridae: Arvicanthis</i> )â€”From radiation in East Africa to repeated colonization of northwestern and southeastern savannas. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2019, 57, 970-988.	0.6	34
30	Determinants of Daily Activity Patterns in a Free-Living Afrotropical Solitary Subterranean Rodent. <i>Journal of Mammalogy</i> , 2007, 88, 1009-1016.	0.6	33
31	Social and Environmental Influences on Daily Activity Pattern in Free-Living Subterranean Rodents. <i>Journal of Biological Rhythms</i> , 2014, 29, 203-214.	1.4	33
32	Multilocus phylogeny of East African gerbils ( <i>Rodentia, Gerbilliscus</i> ) illuminates the history of the Somaliâ€”Masai savanna. <i>Journal of Biogeography</i> , 2017, 44, 2295-2307.	1.4	33
33	Surprisingly long survival of premature conclusions about naked moleâ€”rat biology. <i>Biological Reviews</i> , 2021, 96, 376-393.	4.7	33
34	Parentage analysis of Ansell's moleâ€”rat family groups indicates a high reproductive skew despite relatively relaxed ecological constraints on dispersal. <i>Molecular Ecology</i> , 2013, 22, 4988-5000.	2.0	32
35	Vocalizations of the giant mole-rat ( <i>Fukomys mechowii</i> ), a subterranean rodent with the richest vocal repertoire. <i>Bioacoustics</i> , 2013, 22, 87-107.	0.7	32
36	Multilocus phylogeography of a widespread savannaâ€”woodlandâ€”adapted rodent reveals the influence of Pleistocene geomorphology and climate change in Africa's Zambezi region. <i>Molecular Ecology</i> , 2015, 24, 5248-5266.	2.0	31

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37	Multiple radiations of spiny mice (Rodentia: Acomys) in dry open habitats of Afro-Arabia: evidence from a multi-locus phylogeny. BMC Evolutionary Biology, 2019, 19, 69.	3.2	31
38	Social Structure Predicts Genital Morphology in African Mole-Rats. PLoS ONE, 2009, 4, e7477.	1.1	30
39	Ethiopian highlands as a cradle of the African fossorial root-rats (genus Tachyoryctes), the genetic evidence. Molecular Phylogenetics and Evolution, 2018, 126, 105-115.	1.2	29
40	Ecological characteristics in habitats of two African mole-rat species with different social systems in an area of sympatry: implications for the mole-rat social evolution. Journal of Zoology, 2012, 286, 145-153.	0.8	27
41	Genetic variation of the most abundant forest-dwelling rodents in Central Africa ( <i>Praomys</i> ) of Biogeography, 2019, 46, 1466-1478.	1.4	27
42	Activity of free-living subterranean blind mole rats ( <i>Spalax galili</i> ) (Rodentia: Spalacidae) in an area of supposed sympatric speciation. Biological Journal of the Linnean Society, 2016, 118, 280-291.	0.7	25
43	Biogeographic implications of small mammals from Northern Highlands in Tanzania with first data from the volcanic Mount Kitumbeine. Mammalia, 2018, 82, 360-372.	0.3	23
44	Familiarity and partner preferences in female common voles, <i>Microtus arvalis</i> . Journal of Ethology, 2007, 25, 95-98.	0.4	22
45	Kinship structure and mating system in a solitary subterranean rodent, the silvery mole-rat. Behavioral Ecology and Sociobiology, 2010, 64, 757-767.	0.6	22
46	A seasonal difference of daily energy expenditure in a free-living subterranean rodent, the silvery mole-rat ( <i>Heliophobius argenteocinereus</i> ; Bathyergidae). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2011, 158, 17-21.	0.8	22
47	Surprisingly low risk of overheating during digging in two subterranean rodents. Physiology and Behavior, 2015, 138, 236-241.	1.0	22
48	Integrative taxonomic revision of the Ethiopian endemic rodent genus <i>Stenocephalemys</i> (Muridae: Murinae). Journal of Zoology, 2019, 2019, 1-11.	0.4	22
49	Variability of space-use patterns in a free living eusocial rodent, <i>Ansellomys</i> mole-rat indicates age-based rather than caste polyethism. Scientific Reports, 2016, 6, 37497.	1.6	21
50	Complex reticulate evolution of speckled brush-furred rats ( <i>Lophuromys</i> ) in the Ethiopian centre of endemism. Molecular Ecology, 2021, 30, 2349-2365.	2.0	21
51	Evolutionary history and species diversity of African pouched mice (Rodentia: Muridae). Journal of Zoology, 2019, 2019, 1-11.	1.0	20
52	Phylogeography of a widespread sub-Saharan murid rodent <i>Aethomys chrysophilus</i> : the role of geographic barriers and paleoclimate in the Zambezi bioregion. Mammalia, 2018, 82, 373-387.	0.3	20
53	Differentiation underground: Range-wide multilocus genetic structure of the silvery mole-rat does not support current taxonomy based on mitochondrial sequences. Mammalian Biology, 2018, 93, 82-92.	0.8	20
54	Daily activity patterns in the giant root rat ( <i>Tachyoryctes macrocephalus</i> ), a fossorial rodent from the Afro-alpine zone of the Bale Mountains, Ethiopia. Journal of Zoology, 2017, 302, 157-163.	0.8	19

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55	Biology of the Silvery Mole-rat ( <i>Heliophobius argenteocinereus</i> ). Why Study a Neglected Subterranean Rodent Species?. , 2007, , 221-236.		19
56	VOCALISATIONS OF THE SILVERY MOLE-RAT: COMPARISON OF VOCAL REPERTOIRES IN SUBTERRANEAN RODENTS WITH DIFFERENT SOCIAL SYSTEMS. <i>Bioacoustics</i> , 2009, 18, 241-257.	0.7	17
57	Social and life history correlates of litter size in captive colonies of precocial spiny mice ( <i>Acomys</i> ). <i>Acta Theriologica</i> , 2011, 56, 289-295.	1.1	17
58	Light propagation in burrows of subterranean rodents: tunnel system architecture but not photoreceptor sensitivity limits light sensation range. <i>Journal of Zoology</i> , 2014, 294, 67-75.	0.8	17
59	Evolution of the Grey-bellied pygmy mouse group: Highly structured molecular diversity with predictable geographic ranges but morphological crypsis. <i>Molecular Phylogenetics and Evolution</i> , 2019, 130, 143-155.	1.2	17
60	Vocal repertoire of the social Mashona mole-rat ( <i>Fukomys darlingi</i> ) and how it compares with other mole-rats. <i>Bioacoustics</i> , 2016, 25, 253-266.	0.7	16
61	Molecular systematics and biogeographic history of the African climbing-mouse complex ( <i>Dendromus</i> ). <i>Molecular Phylogenetics and Evolution</i> , 2021, 161, 107166.	1.2	16
62	Phylogenomics of African radiation of Praomyini (Muridae: Murinae) rodents: First fully resolved phylogeny, evolutionary history and delimitation of extant genera. <i>Molecular Phylogenetics and Evolution</i> , 2021, 163, 107263.	1.2	16
63	Variation in the digging apparatus of the subterranean silvery mole-rat, <i>Heliophobius argenteocinereus</i> (Rodentia, Bathyergidae): the role of ecology and geography. <i>Biological Journal of the Linnean Society</i> , 0, 97, 822-831.	0.7	15
64	Nuclear phylogenomics, but not mitogenomics, resolves the most successful Late Miocene radiation of African mammals (Rodentia: Muridae: Arvicanthini). <i>Molecular Phylogenetics and Evolution</i> , 2021, 157, 107069.	1.2	15
65	Heat dissipation in subterranean rodents: the role of body region and social organisation. <i>Scientific Reports</i> , 2021, 11, 2029.	1.6	15
66	Secondary sex ratios do not support maternal manipulation: extensive data from laboratory colonies of spiny mice (Muridae: <i>Acomys</i> ). <i>Behavioral Ecology and Sociobiology</i> , 2010, 64, 371-379.	0.6	14
67	Revised occurrence of rodents from the tribe Praomyini (Muridae) in Zambia based on mitochondrial DNA analyses: implications for biogeography and conservation. <i>Folia Zoologica</i> , 2012, 61, 268-283.	0.9	14
68	Genetic distinction between contiguous urban and rural multimammate mice in Tanzania despite gene flow. <i>Journal of Evolutionary Biology</i> , 2016, 29, 1952-1967.	0.8	14
69	Attracted by a magnet: Exploration behaviour of rodents in the presence of magnetic objects. <i>Behavioural Processes</i> , 2018, 151, 11-15.	0.5	14
70	Taxonomic status and remarks on ecology of the Malawian mole-rat <i>Cryptomys whytei</i> (Rodentia, Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50	1.1	13
71	Emmonsiosis of subterranean rodents (Bathyergidae, Spalacidae) in Africa and Israel. <i>Medical Mycology</i> , 2005, 43, 691-697.	0.3	13
72	Seismic communication in demon African mole rat <i>Tachyoryctes daemon</i> from Tanzania. <i>Journal of Ethology</i> , 2013, 31, 255-259.	0.4	13

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73	Soil preference in blind mole rats in an area of supposed sympatric speciation: do they choose the fertile or the familiar?. <i>Journal of Zoology</i> , 2017, 303, 291-300.	0.8	13
74	Ecological role of the giant root rat ( <i>Tachyoryctes macrocephalus</i> ) in the Afroalpine ecosystem. <i>Integrative Zoology</i> , 2017, 12, 333-344.	1.3	13
75	Spiny mice of the Zambebian bioregion – phylogeny, biogeography and ecological differentiation within the <i>Acomys spinosissimus</i> complex. <i>Mammalian Biology</i> , 2018, 91, 79-90.	0.8	13
76	Alloparental behaviour in Sinai spiny mice <i>Acomys dimidiatus</i> : a case of misdirected parental care?. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 437-447.	0.6	12
77	Burrowing below ground: interaction between soil mechanics and evolution of subterranean mammals. <i>Journal of the Royal Society Interface</i> , 2020, 17, 20190521.	1.5	12
78	Dental peculiarities in the silvery mole-rat: an original model for studying the evolutionary and biological origins of continuous dental generation in mammals. <i>PeerJ</i> , 2015, 3, e1233.	0.9	12
79	What determines the way of deposition of excavated soil. <i>Acta Theriologica</i> , 2010, 55, 271-277.	1.1	11
80	Work behaviour and biting performance in the cooperative breeding Mickleme's mole-rat <i>Fukomys micklemei</i> (Bathyergidae, Rodentia). <i>Mammalian Biology</i> , 2019, 95, 69-76.	0.8	11
81	Evaporative water loss in seven species of fossorial rodents: Does effect of degree of fossoriality and sociality exist?. <i>Journal of Thermal Biology</i> , 2020, 89, 102564.	1.1	11
82	Multilocus phylogeny of African striped grass mice ( <i>Lemniscomys</i> ): Stripe pattern only partly reflects evolutionary relationships. <i>Molecular Phylogenetics and Evolution</i> , 2021, 155, 107007.	1.2	11
83	Resource characteristics and foraging adaptations in the silvery mole rat ( <i>Heliophobius</i> )	0.7	10
84	Does the morphology of the ear of the Chinese bamboo rat ( <i>Platyrrhinus</i> )	0.6	10
85	Fossorial adaptations in African mole-rats (Bathyergidae) and the unique appendicular phenotype of naked mole-rats. <i>Communications Biology</i> , 2022, 5, .	2.0	10
86	Reactions to disturbances in the context of antipredatory behaviour in a solitary subterranean rodent. <i>Journal of Ethology</i> , 2008, 26, 249-254.	0.4	9
87	A new member or an intruder: how do Sinai spiny mouse ( <i>Acomys dimidiatus</i> ) families respond to a male newcomer?. <i>Behaviour</i> , 2011, 148, 889-908.	0.4	9
88	Poikilothermic traits in Mashona mole-rat ( <i>Fukomys darlingi</i> ). Reality or myth?. <i>Journal of Thermal Biology</i> , 2012, 37, 485-489.	1.1	9
89	Behavioural Tests Reveal Severe Visual Deficits in the Strictly Subterranean African Mole Rats (Bathyergidae) but Efficient Vision in the Fossorial Rodent Coruro ( <i>Spalacopus cyanus</i> )	1.0	9
90	Social thermoregulation and socio-physiological effect in the subterranean Mashona mole-rat ( <i>Fukomys darlingi</i> ). <i>Journal of Thermal Biology</i> , 2018, 78, 367-373.	1.1	9

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91	New discoveries on the ecology and echolocation of the heart-nosed bat <i>Cardioderma cor</i> with a contribution to the phylogeny of Megadermatidae. <i>African Zoology</i> , 2015, 50, 53-57.	0.2	8
92	Biogeography of Angolan rodents: The first glimpse based on phylogenetic evidence. <i>Diversity and Distributions</i> , 2021, 27, 2571-2583.	1.9	8
93	Biogeographical Importance of the Livingstone Mountains in Southern Tanzania: Comparative Genetic Structure of Small Non-volant Mammals. <i>Frontiers in Ecology and Evolution</i> , 2022, 9, .	1.1	8
94	Enigmatic Ethiopian endemic rodent <i>Muriculus imberbis</i> (Rappell 1842) represents a separate lineage within genus <i>Mus</i> . <i>Mammalia</i> , 2014, .	0.3	7
95	Burrow systems of mole-rats as refuges for frogs in the Miombo woodlands of south-east Africa. <i>Journal of Tropical Ecology</i> , 2016, 32, 158-161.	0.5	7
96	Presumed ecological speciation in blind mole rats: does soil type influence mate preferences?. <i>Ethology Ecology and Evolution</i> , 2020, 32, 46-59.	0.6	7
97	Gas composition and its daily changes within burrows and nests of an Afroalpine fossorial rodent, the giant root-rat <i>Tachyoryctes macrocephalus</i> . <i>Zoology</i> , 2020, 142, 125819.	0.6	7
98	Are southern African solitary mole-rats homeothermic or heterothermic under natural field conditions?. <i>Journal of Thermal Biology</i> , 2021, 95, 102810.	1.1	7
99	Species limits and phylogeographic structure in two genera of solitary African mole-rats <i>Georchus</i> and <i>Heliophobius</i> . <i>Molecular Phylogenetics and Evolution</i> , 2021, 167, 107337.	1.2	7
100	Diversity, distribution, and evolutionary history of the most studied African rodents, multimammate mice of the genus <i>Mastomys</i> : An overview after a quarter of century of using DNA sequencing. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2021, 59, 2500-2518.	0.6	7
101	THREE NEW SPECIES OF EIMERIA (APICOMPLEXA: EIMERIIDAE) FROM THE SILVERY MOLE RAT HELIOPHOBIUS ARGENTEOCINEREUS PETERS, 1846 (RODENTIA: BATHYERGIDAE) FROM MALAWI. <i>Journal of Parasitology</i> , 2005, 91, 1200-1203.	0.3	6
102	The Rufous Sengi is not <i>Elephantulus</i> – Multilocus reconstruction of evolutionary history of sengis from the subfamily Macroscelidinae. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2021, 59, 918-932.	0.6	6
103	The giant that makes do with little: small and easy-to-leave home ranges found in the giant root-rat. <i>Journal of Zoology</i> , 2020, 310, 64-70.	0.8	5
104	<i>Eimeria burdai</i> sp. n. (Apicomplexa: Eimeriidae), a new parasite species from subterranean African silvery mole-rat, <i>Heliophobius argenteocinereus</i> . <i>Folia Parasitologica</i> , 2000, 47, 97-99.	0.7	5
105	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.	0.9	5
106	Bite force in the strictly subterranean rodent family of African mole-rats (Bathyergidae): The role of digging mode, social organization and ecology. <i>Functional Ecology</i> , 2022, 36, 2344-2355.	1.7	5
107	Additional row of outer hair cells – The unique pattern of the Corti organ in a subterranean rodent, the Gansu zokor ( <i>Eospalax cansus</i> ). <i>Mammalian Biology</i> , 2019, 94, 11-17.	0.8	2
108	Ear morphology in two root-rat species (genus <i>Tachyoryctes</i> ) differing in the degree of fossoriality. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2021, 207, 469-478.	0.7	2

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109	Non-shivering thermogenesis in four species of African mole-rats differing in their sociality. <i>Journal of Zoology</i> , 2021, 315, 58-68.	0.8	2
110	Complete mitochondrial genome of the giant root-rat ( <i>Tachyoryctes macrocephalus</i> ). <i>Mitochondrial DNA Part B: Resources</i> , 2021, 6, 2191-2193.	0.2	2
111	Developmental Plasticity in the Ossification of the Proximal Femur of <i>Heterocephalus glaber</i> (Bathyergidae, Rodentia). <i>Journal of Mammalian Evolution</i> , 0, , 1.	1.0	2
112	A New Record of the Endangered White-winged Nightjar ( <i>Eleothreptus candicans</i> ) from Beni, Bolivia. <i>Wilson Journal of Ornithology</i> , 2006, 118, 109-112.	0.1	1
113	The effect of elevation on haematocrit in Ethiopian rodents. <i>Journal of Vertebrate Biology</i> , 2020, 69, 1.	0.4	1
114	The penial and bacular morphology of the solitary silvery mole-rat ( <i>Heliophobius argenteocinereus</i> ). <i>Journal of Zoology</i> , 2019, 99, 54-62.	0.8	0
115	A new rodent species of the genus <i>Mus</i> (Rodentia: Muridae) confirms the biogeographical uniqueness of the isolated forests of southern Ethiopia. <i>Organisms Diversity and Evolution</i> , 0, , 1.	0.7	0