

Table S1. Individual-level auditory thresholds (in dB SPL) for three subterranean rodent species. Threshold values are rounded to 1 dB.

Frequencies are provided in kHz. See Table 1 for further information on each subject.

Naked mole-rat (*Heterocephalus glaber*)

Frequency	HG1 3105	HG1 67311	HG2 5400	HG2 7311	HG3 5401	HG3 5402	HG3 5403	HG3 5408	HG3 5422	HG3 5423	HG3 5424	HG5 5351
0.03	60	80	77	73	77	80	80	57	70	70	57	80
0.05	63	80	75	62	65	70	75	68	63	58	70	80
0.1	32	72	80	80	58	72	58	48	75	57	60	80
0.2	48	55	63	57	48	57	60	78	45	62	53	58
0.5	47	52	38	55	50	50	63	80	28	32	53	47
1	40	45	40	43	30	48	40	57	35	27	43	27
2	27	40	50	25	53	43	35	45	32	42	43	35
3	23	12	40	45	47	52	37	68	35	40	40	27
3.5	33	38	52	25	60	40	57	50	37	38	40	47
4	28	47	52	43	63	40	47	73	50	25	48	72
4.5	27	55	58	30	55	47	17	80	55	47	30	72
5	22	43	62	25	48	37	53	80	47	43	43	80
6	45	43	60	55	60	38	80	80	75	52	53	52
8	40	55	73	73	62	40	67	80	47	57	58	80
12	55	80	78	77	75	80	65	60	48	62	72	80
16	/	75	/	80	62	/	/	63	63	78	60	/
18	/	/	/	/	62	/	/	/	65	/	/	/

Mashona mole-rat (*Fukomys darlingi*)

Frequency	FD1 5450	FD1 9399	FD2 2229	FD2 5361	FD2 5441	FD3 30000	FD4 0815	FD5 4105	FD5 4686
0.03	58	75	77	75	67	75	80	80	80
0.05	65	80	78	78	78	77	78	75	80
0.1	60	80	70	80	65	80	78	75	70
0.2	45	60	57	37	48	80	63	57	73
0.4	48	73	52	45	38	78	52	55	75
0.7	32	48	50	45	33	73	57	50	60
1	33	53	37	22	32	60	58	27	58
1.3	38	70	47	8	37	73	55	45	68
1.7	38	65	45	35	40	62	72	53	80
2	33	75	65	23	50	72	45	57	60
4	43	60	77	40	60	80	78	77	77
6	43	77	80	60	77	77	70	72	75
8	80	80	70	80	77	77	80	72	62
12	67	75	77	80	73	73	80	67	68
16	70	72	70	80	68	68	73	73	78

Coruro (*Spalacopus cyanus*)

Frequency	SC1 2797	SC1 7664	SC2 2732	SC2 2760	SC2 2780	SC2 9892	SC3 5343	SC3 5346	Scae 5377	SCae 8732	SCh 0820	SCh 5345
0.03	80	80	75	80	70	80	70	75	68	80	80	80
0.05	80	80	80	57	72	72	50	75	55	77	80	45
0.1	57	67	45	77	48	75	73	80	47	65	77	80
0.2	42	50	50	43	50	45	50	35	47	55	45	58
0.5	47	30	28	37	33	22	55	33	33	43	35	33
1	35	15	18	37	18	23	27	20	22	13	22	37
1.3	8	37	7	13	20	2	15	23	22	20	10	25
1.7	25	10	7	23	25	25	8	12	12	22	22	27
2	15	32	12	17	17	13	30	7	15	8	23	28
3	33	28	20	8	20	25	13	8	22	15	25	32
6	32	28	15	30	33	30	55	33	23	15	22	15
12	15	45	8	30	33	20	40	25	18	22	35	40
16	23	45	28	38	30	23	65	27	30	43	23	27
24	12	55	22	17	32	17	60	22	52	73	42	75
32	33	78	33	47	52	30	60	18	38	60	17	52
36	75	/	/	/	/	/	/	/	45	/	75	/

Table S2. Results of statistical comparisons (ANOVA, Kruskal-Wallis test, paired Wilcoxon test, Tukey's honest significant differences (THSD)) of hearing thresholds in coruros, Mashona mole-rats (MMR) and naked mole-rats (NMR). Frequencies are provided in kHz. Significant *p*-values are indicated in bold.

Frequency	Coruro / MMR	Coruro / NMR	MMR / NMR
0.03	Kruskal-Wallis chi-squared = 1.8857, <i>p</i> = 0.3895		
0.05	Kruskal-Wallis chi-squared = 4.5134, <i>p</i> = 0.1047		
0.1	ANOVA: F-value = 1.503 <i>p</i> = 0.238		
0.2	THSD, <i>p</i> = 0.041	THSD, <i>p</i> = 0.047	THSD, <i>p</i> = 0.983
1	THSD, <i>p</i> < 0.001	THSD, <i>p</i> = 0.002	THSD, <i>p</i> = 0.828
2	THSD, <i>p</i> < 0.001	THSD, <i>p</i> < 0.001	THSD, <i>p</i> = 0.017
4	NA	NA	Wilcoxon Test, <i>p</i> = 0.039
6	Wilcoxon Test, <i>p</i> < 0.001	Wilcoxon Test, <i>p</i> < 0.001	Wilcoxon Test, <i>p</i> = 0.238
12	Wilcoxon Test, <i>p</i> < 0.001	Wilcoxon Test, <i>p</i> < 0.001	Wilcoxon Test, <i>p</i> = 1
16	THSD, <i>p</i> < 0.001	THSD, <i>p</i> < 0.001	THSD, <i>p</i> = 0.701