

Audiogram of the naked mole rat (*Hetercephalus glaber*)

Data from: Heffner, R.S., and Heffner, H.E. (1993) Degenerate hearing and sound localization in naked mole rats (*Heterocephalus glaber*), with an overview of central auditory structures. *Journal of Comparative Neurology*, 331, 418-433.

Absolute thresholds (in dB re 20 $\mu\text{N}/\text{m}^2$) for four naked mole rats (designated A through D)

| Frequency (in kHz) | Individual Thresholds (in dB) | | | | Average |
|-----------------------|----------------------------------|----|----|----|---------|
| | A | B | C | D | |
| .008 | 86 | 87 | 88 | 79 | 85 |
| .016 | 70 | 76 | 85 | 70 | 75.3 |
| .032 | 68 | 70 | 67 | 59 | 66 |
| .063 | 62 | 63 | 64 | 56 | 61.3 |
| .125 | 45 | 41 | 47 | 40 | 43.3 |
| .250 | 43 | 45 | 42 | 40 | 42.5 |
| .500 | 43 | 46 | 46 | 39 | 43.5 |
| 1 | 38 | 35 | 48 | 40 | 40.3 |
| 2 | 40 | 40 | 39 | 34 | 38.3 |
| 4 | 34 | 29 | 45 | 31 | 34.8 |
| 8 | 46 | 38 | 49 | 41 | 43.5 |
| 11.2 | 58 | 47 | 64 | 60 | 57.3 |
| 16 | 86 | 90 | 89 | 85 | 87.5 |

Lowest and highest frequencies audible at sound pressure levels (SPL) ranging from 30 to 70 dB SPL

| SPL (in dB) | Lowest audible frequency (in kHz) | Highest audible frequency (in kHz) |
|----------------|--------------------------------------|---------------------------------------|
| 70 | .0233 | 12.9 |
| 60 | .065 | 11.5 |
| 50 | .096 | 9.4 |
| 40 | 1. | 6.1 |
| 30 | — | — |

Additional Parameters:

Body weight = 40 g

Functional interaural distance= 61 μs

(Time required for sound to travel around the head from one auditory meatus to the other.)

Comments: Threshold values taken from original data.