Table 5. Meta-analysis of radius ratio and radius slope across five studies.

Origin of Data	Notes	Radius Ratio	Radius Slope
Ibrahim and Wright (1975) obtained five whiskers from male Wistar rats between 3 – 6 months old	page 52 in Ibrahim and Wright (1975): "In rats α, β, γ and δ		Arc length data (in mm) taken from Fig. 8A in Ibrahim and Wright, 1975
	vibrissae are 3-5 µm at their tips and 160-180 µm at the widest part excluding the club."	Smallest possible ratio: 80/2.5 = 32	~140 days: α = 44; β = 51, γ = 52, δ = 59
	Figure 8A in Ibrahim and Wright (1975) provides data about the arc	Largest possible ratio: 90/1.5 = 60	Min possible radius slope = $(80 - 2.5)/59,000 = 1.31 \times 10^{-3}$
	length of whiskers α , β , γ and δ		Max possible radius slope = (90 - 1.5)/44,000 = 2.01×10 ⁻³
	Figure 6 in Ibrahim and Wright (1975) plots diameter as a function of arc length for the β, A1, A2, A3,	Based on data from Table 3 in the present paper	Based on data from Table 3 in present paper
	and A4 rat vibrissae. The resolution of Figure 6 is severely limited at the tip. The data were extracted from	Mean ± SD: 27 ± 8	Mean ± SD: 2.16×10 ⁻³ ± 0.523×10 ⁻³
	the figure and are provided as Table 3 in the present paper.	Median: 24	Median: 1.89×10 ⁻³
Neimark et al. (2003) obtained 18 whiskers from rats of unknown age, sex, and strain.	Table 2 in Neimark et al, 2003 provides arc length, base diameter, and tip diameter for 18 whiskers. The whiskers include the Greek column and columns 1, 2, and 3 of rows A through E.	Based on Table 2 in Neimark et al, 2003	Based on data from Table 2 in Neimark et al, 2003
		Mean ± SD: 29 ± 35	Mean ± SD: 1.76×10 ⁻³ ± 0.457×10 ⁻³
		Median: 23	Median: 1.75×10 ⁻³
Hartmann et al., (2003) obtained 24 whiskers from one adult female Sprague-	Figure 6c in Hartmann et al., 2003 shows a log-log plot of diameter vs. arc length for 24 rat whiskers. These original data are provided in Table 3 in the present paper, along with tip	Based on Table 3 in present paper	Based on Table 3 in present paper
		Mean ± SD: 36 ± 20	Mean ± SD: 2.26×10 ⁻³ ± 0.822×10 ⁻³
Dawley rat.	diameters.	Median = 33	Median = 2.04×10 ⁻³
Voges et al. (2012) obtained 23 whiskers	Figures 3 and 4 in Voges et al. (2012) show data for arc length,	Based on data from Table 3 in present paper	Based on data from Table 3 in present paper
from 14-month old, female Wistar	base diameter, and tip diameter. The original data were obtained from the authors and provided as Table 3 in	Mean ± SD: 62 ± 31	Mean ± SD: 2.17×10 ⁻³ ± 0.553×10 ⁻³
Hannover rats	the present paper	Median = 51	Median = 2.02×10 ⁻³
Belli et al., 2016 (present study) obtained 52 whiskers from three male and female Sprague-	Data collected in the present paper and tabulated in Table 4.	Based on data from Table 4 in present paper	Based on data from Table 4 in present paper
		Mean ± SD: 29 ± 11	Mean ± SD: 2.48×10 ⁻³ ± 1.10×10 ⁻³
Dawley rats between 3 – 13 months old.		Median = 28	Median = 2.18×10 ⁻³

Columns are as follows: origin of data; notes on the location of data in the referenced paper; mean, standard deviation, and median for radius ratio; and the mean, standard deviation, and median for radius slope. The radius ratio and radius slope columns for Ibrahim and Wright (1975) show only extrema for radius ratio because of the large measurement uncertainties in the tip and base diameters.