

QUANTIFICATION OF VIBRISSELL MECHANICAL PROPERTIES

Table 2. Whisker parameters used in the present study

Rat No.	Sex	Side	Whisker	D_{Base} , μm	D_{Med} , μm	D_{MedT} , μm	D_{Tip} , μm	S_{Total} , mm	S_{Prox} , mm	S_{Dist} , mm	M_{Total} , μg	M_{Prox} , μg	M_{Dist} , μg
1	F	R	A1	139	49	45	5	37.5	25.8	11.7	246.2	229.9	16.3
1	F	R	A2	104	12	45	12	28.7	21.0	7.7	128.3	115.6	12.7
1	F	R	A3	85	14	51	3	19.9	8.5	11.4	60.0	46.6	13.4
1	F	R	B1	160	54	43	6	46.9	32.9	14.0	361.4	348.5	12.9
<i>I</i>	<i>F</i>	<i>R</i>	<i>B2</i>	<i>73</i>	<i>17</i>	<i>48</i>	<i>5</i>	<i>19.6</i>	<i>7.7</i>	<i>11.9</i>	<i>239.7</i>	<i>225.9</i>	<i>13.8</i>
1	F	R	C1	163	44	39	4	50.4	38.0	12.4	426.5	417.0	9.5
1	F	R	C2	166	56	43	4	35.2	25.0	10.2	283.1	274.3	8.8
1	F	R	C3	125	33	50	5	23.2	13.2	10.0	120.2	109.6	10.6
1	F	R	C4	100	24	64	3	15.6	6.0	9.6	58.8	44.2	14.6
1	F	R	C6	53	11	49	5	4.2	4.1	0.1	NaN	NaN	NaN
1	F	R	D1	205	71	38	5	56.5	45.9	10.6	NaN	638.1	NaN
1	F	R	D2	178	74	45	7	37.4	27.3	10.1	339.9	329.7	10.2
1	F	R	D4	107	35	58	14	14.4	7.1	7.3	66.9	53.9	13.0
1	F	R	E1	213	84	38	8	49.6	42.4	7.2	634.1	628.3	5.8
1	F	R	E3	174	68	37	9	25.6	19.8	5.8	NaN	216.4	NaN
1	F	R	E4	134	52	52	5	17.0	9.9	7.1	97.1	89.0	8.1
1	F	R	α	145	43	43	6	47.0	31.2	15.8	274.9	261.3	13.6
<i>I</i>	<i>F</i>	<i>R</i>	β	<i>161</i>	<i>45</i>	<i>43</i>	<i>6</i>	<i>40.3</i>	<i>38.9</i>	<i>1.4</i>	<i>424.2</i>	<i>410.8</i>	<i>13.4</i>
1	F	R	γ	158	54	43	4	51.0	39.1	11.9	NaN	374.2	NaN
2	M	R	A1	143	44	29	4	43.9	34.9	9.0	292.9	287.3	5.6
2	M	R	A3	95	26	44	3	21.9	12.0	9.9	76.4	67.3	9.1
2	M	R	A4	75	11	55	19	12.0	4.8	7.2	39.0	25.1	13.9
2	M	R	B1	163	60	40	5	52.0	42.3	9.7	466.7	459.1	7.6
2	M	R	B2	148	51	37	7	36.6	28.4	8.2	265.5	260.0	5.5
2	M	R	B3	89	24	47	3	19.2	10.6	8.6	62.0	53.4	8.6
2	M	R	B4	81	10	62	3	13.1	4.3	8.8	40.6	25.8	14.8
2	M	R	C2	159	52	40	4	36.5	28.0	8.5	327.6	320.5	7.1
2	M	R	C3	115	29	38	3	19.9	13.7	6.2	96.3	91.5	4.8
2	M	R	C4	101	16	53	4	15.0	7.6	7.4	63.5	54.1	9.4
2	M	R	D1	203	68	34	4	52.1	45.6	6.5	675.4	671.2	4.2
2	M	R	D5	105	22	60	4	12.9	5.9	7.0	54.9	44.4	10.5
2	M	R	E3	151	58	39	4	26.6	21.0	5.6	207.3	202.6	4.7
2	M	R	E4	132	47	45	4	18.5	12.5	6.0	112.3	106.5	5.8
2	M	R	E5	93	31	55	3	10.9	5.2	5.7	39.0	31.7	7.3
2	M	R	α	154	47	39	4	50.3	40.8	9.5	379.9	372.5	7.4
2	M	R	β	134	40	38	7	45.1	36.3	8.8	251.4	243.7	7.7
2	M	R	γ	134	44	41	4	49.7	41.3	8.4	375.3	368.1	7.2
2	M	R	δ	101	25	41	6	35.8	28.2	7.6	170.8	164.1	6.7
3	M	L	A1	154	60	39	6	41.7	30.3	11.4	277.1	268.9	8.2
3	M	L	A4	76	16	48	5	13.9	6.4	7.5	39.5	32.1	7.4
3	M	L	B1	171	68	40	3	48.2	37.7	10.5	414.2	405.8	8.4
3	M	L	B2	153	50	38	5	35.3	26.1	9.2	239.3	233.7	5.6
3	M	L	B3	99	27	41	5	20.6	12.8	7.8	74.3	68.6	5.7
3	M	L	C2	167	56	40	3	36.6	27.7	8.9	307.9	301.5	6.4
3	M	L	C4	103	26	51	3	16.5	8.9	7.6	71.1	63.1	8.0
3	M	L	D3	134	57	41	6	24.9	18.3	6.6	150.2	145.6	4.6
3	M	L	D4	136	45	46	5	20.6	14.5	6.1	135.9	130.6	5.3
3	M	L	D6	81	18	65	4	8.6	2.9	5.7	23.6	14.3	9.3
3	M	L	E3	158	62	44	5	26.4	20.2	6.2	208.0	202.7	5.3
3	M	L	E6	92	15	59	3	6.4	3.0	3.4	26.0	19.9	6.1
3	M	L	α	160	48	48	3	44.9	37.1	7.8	343.0	334.5	8.5
3	M	L	β	171	53	38	5	54.9	49.6	5.3	477.7	470.7	7.0

Rows in bold italic indicate whiskers that were found to be outliers and removed from analysis (see main text for details). D_{Base} , diameter of the whisker at its base; D_{Med} , diameter of the medulla at its base; D_{MedT} , diameter of the whisker at the location where the medulla terminates; D_{Tip} , diameter of the whisker at its tip; M_{Dist} , mass of the whisker distal to medulla termination; M_{Prox} , mass of the whisker proximal to medulla termination; M_{Total} , total mass of the whisker; S_{Dist} , arc length of the whisker distal to medulla termination; S_{Prox} , arc length of the whisker proximal to medulla termination; S_{Total} , total arc length of the whisker; F, female; L, left; M, male; NaN, not a number; R, right.