Stimulations that elicited MEPs

Table S1. Overview of elicited MEPs in all the 20 subjects × 8 muscles × 3 intensities × 2 sessions=960 mappings; 'A' stands for active, and' N' stands for non-active.

	Intensity of 105% RMT of FDI															
	Session1								Session2							
	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR
Subject01	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject02	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject03	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject04	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject05	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject06	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject07	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject08	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject09	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject10	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject11	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject12	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject13	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject14	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'
Subject15	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject16	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject17	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject18	'A'	'N'	'A'	'A'	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject19	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject20	'N'	'N'	'N'	'N'	'N'	'N'	'N'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'

	Intensity of 105% RMT of EDC															
	Session1								Session2							
	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR
Subject01	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject02	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject03	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject04	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject05	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject06	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject07	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject08	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject09	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject10	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject11	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject12	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'
Subject13	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject14	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'
Subject15	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject16	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject17	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject18	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject19	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject20	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'

	Intensity of 105% RMT of FCR															
	Session1								Session2							
	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR	FDI	ADM	APB	FPB	EDC	FDS	ECR	FCR
Subject01	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject02	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject03	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject04	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject05	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject06	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject07	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject08	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject09	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject10	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject11	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject12	'A'	'N'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject13	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject14	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject15	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject16	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject17	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject18	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject19	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'
Subject20	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'	'A'

Number of excitable (active) points

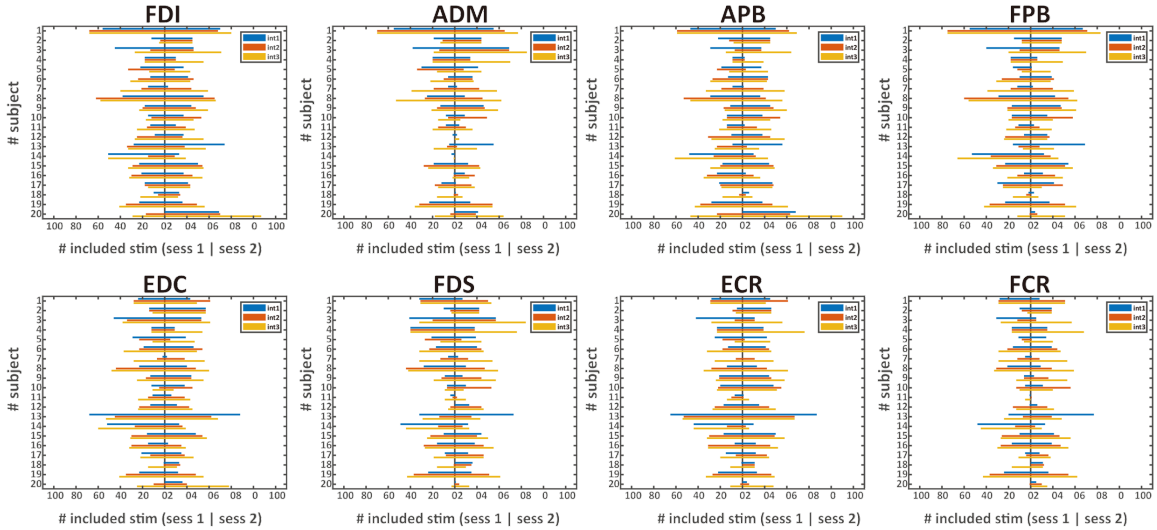

Figure S1. The figure depicts the number of active points for all the muscles in all the subjects. The x-axis values show the number of stimulations in session 1 (centre to the left) and session 2 (centre to the right). Y-axis values represent the number of subjects. The blue, red, and yellow colour legends show the intensity 1,2 and 3 values, respectively.

Standard deviation at baseline

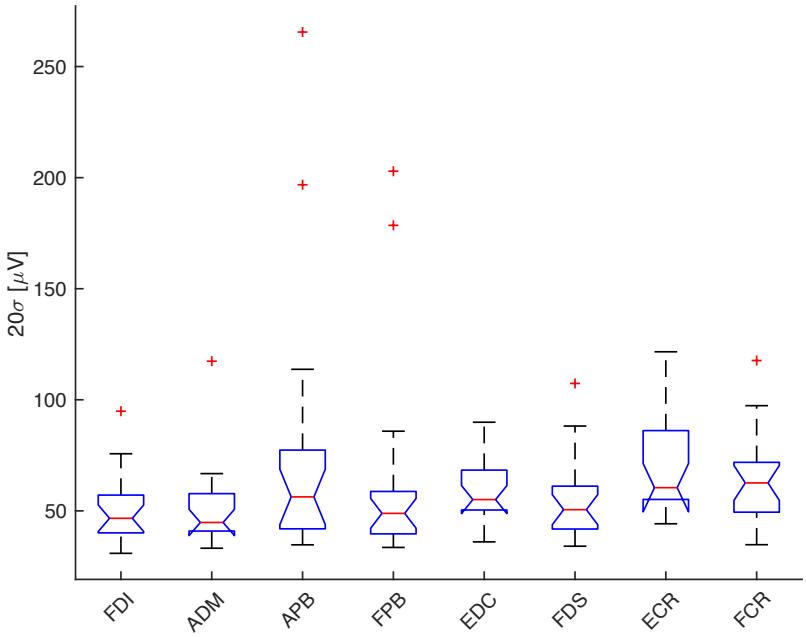

Figure S2. Standard deviations σ per muscle (mean over stimulations and session per subject) that served as threshold to define proper MEPs – see body text. While the median values fall in the range of values reported in the literature (medians of $20 \cdot \sigma$ = [47, 45, 56, 49, 55, 51, 60, and 63] μV for FDI, ADM, APB, FPB, EDC, FDS, ECR, and FCR, respectively), some participants clearly appeared as outliers rendering our choice for subject-specific thresholding via the baseline's standard deviation appropriate.

Supplementary statistics

Table S2a. ICC values of area sizes A and centroids $C = (C_x, C_y, C_z)^T$ estimated for intensity of 105% RMT of FCR using the cortical meshes with maximum resolution when ignoring non-MEP points (M1) or removing them (M2).*

	FDI		ADM		APB		FPB		EDC		FDS		ECR		FCR	
	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
Resolution: 15,000 vertices																
A	0.28	0.43	0.65	0.75	0.67	0.45	0.86	0.60	0.76	0.73	0.33	0.30	0.72	0.61	0.24	0.23
C_x	0.90	0.89	0.89	0.89	0.89	0.87	0.91	0.90	0.92	0.91	0.90	0.89	0.93	0.93	0.93	0.92
C_y	0.62	0.60	0.53	0.53	0.61	0.59	0.58	0.56	0.61	0.59	0.55	0.52	0.61	0.57	0.59	0.49
C_z	0.82	0.80	0.72	0.71	0.75	0.72	0.79	0.78	0.81	0.80	0.70	0.70	0.81	0.79	0.82	0.77
Resolution: 100,000 vertices																
A	0.36	0.39	0.72	0.74	0.56	0.55	0.77	0.75	0.84	0.84	0.49	0.47	0.76	0.76	0.31	0.28
C_x	0.90	0.90	0.89	0.89	0.89	0.89	0.88	0.88	0.91	0.91	0.88	0.88	0.92	0.92	0.91	0.91
C_y	0.57	0.57	0.54	0.54	0.67	0.67	0.62	0.62	0.61	0.60	0.51	0.49	0.52	0.51	0.55	0.54
C_z	0.82	0.83	0.69	0.68	0.77	0.79	0.81	0.81	0.78	0.78	0.67	0.67	0.79	0.79	0.85	0.85

* Excellent: .8 ≤ ICC (dark green, bold); good: .65 ≤ ICC < .8 (light green); moderate: .5 ≤ ICC < .65 (yellow); poor: ICC<.5 (light red).

Table S2b. ICC values of area sizes A and centroids $C = (C_x, C_y, C_z)^T$ estimated for intensity of 105% RMT of FDI using the cortical meshes with maximum resolution when ignoring non-MEP points (M1) or removing them (M2).*

	FDI		ADM		APB		FPB		EDC		FDS		ECR		FCR	
	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
Resolution: 15,000 vertices																
A	0.64	0.63	0.26	0.32	0.71	0.74	0.40	0.39	0.47	0.16	0.51	0.54	0.60	0.45	0.45	0.44
C_x	0.92	0.91	0.90	0.90	0.87	0.87	0.87	0.86	0.95	0.96	0.94	0.93	0.94	0.94	0.93	0.93
C_y	0.67	0.66	0.51	0.48	0.68	0.69	0.70	0.70	0.64	0.63	0.64	0.64	0.64	0.63	0.68	0.67
C_z	0.82	0.81	0.80	0.79	0.74	0.73	0.71	0.71	0.79	0.76	0.82	0.82	0.81	0.79	0.74	0.73
Resolution: 100,000 vertices																
A	0.57	0.56	0.09	0.08	0.71	0.70	0.44	0.44	0.40	0.32	0.48	0.51	0.64	0.55	0.38	0.37
C_x	0.89	0.89	0.86	0.86	0.85	0.85	0.84	0.85	0.96	0.95	0.90	0.90	0.95	0.95	0.89	0.88
C_y	0.75	0.75	0.61	0.55	0.71	0.71	0.70	0.70	0.69	0.67	0.70	0.70	0.75	0.70	0.65	0.61
C_z	0.83	0.83	0.84	0.84	0.77	0.77	0.73	0.73	0.86	0.86	0.80	0.79	0.86	0.78	0.77	0.80
Maximum resolution																
A	0.46	0.46	0.10	0.06	0.61	0.61	0.48	0.48	0.51	0.49	0.30	0.31	0.60	0.57	0.34	0.29
C_x	0.88	0.89	0.86	0.86	0.85	0.85	0.85	0.85	0.94	0.94	0.89	0.89	0.93	0.93	0.87	0.87
C_y	0.75	0.75	0.59	0.75	0.69	0.69	0.67	0.67	0.67	0.66	0.69	0.69	0.72	0.67	0.62	0.57
C_z	0.80	0.80	0.81	0.82	0.74	0.74	0.70	0.71	0.83	0.83	0.77	0.77	0.82	0.76	0.70	0.72

* Excellent: .8 ≤ ICC (dark green, bold); good: .65 ≤ ICC < .8 (light green); moderate: .5 ≤ ICC < .65 (yellow); poor: ICC<.5 (light red).

Table S2c. ICC values of area sizes A and centroids $C = (C_x, C_y, C_z)^T$ estimated for intensity of 105% RMT of EDC using the cortical meshes with maximum resolution when ignoring non-MEP points (M1) or removing them (M2).*

	FDI		ADM		APB		FPB		EDC		FDS		ECR		FCR	
	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2	M1	M2
Resolution: 15,000 vertices																
A	0.74	0.66	0.68	0.59	0.48	0.55	0.76	0.78	0.55	0.53	0.55	0.52	0.84	0.82	0.50	0.52
C_x	0.92	0.93	0.89	0.89	0.93	0.93	0.92	0.93	0.88	0.88	0.89	0.90	0.89	0.90	0.87	0.87
C_y	0.52	0.56	0.46	0.46	0.63	0.64	0.73	0.75	0.64	0.64	0.51	0.52	0.62	0.64	0.61	0.61
C_z	0.75	0.75	0.64	0.66	0.76	0.77	0.71	0.88	0.78	0.79	0.75	0.75	0.77	0.79	0.73	0.73
Resolution: 100,000 vertices																
A	0.77	0.75	0.48	0.32	0.50	0.51	0.79	0.81	0.23	0.19	0.37	0.37	0.74	0.73	0.23	0.22
C_x	0.94	0.94	0.87	0.86	0.96	0.95	0.95	0.95	0.90	0.91	0.90	0.90	0.92	0.92	0.88	0.88
C_y	0.58	0.59	0.54	0.60	0.51	0.50	0.77	0.77	0.37	0.63	0.52	0.50	0.68	0.68	0.66	0.67
C_z	0.78	0.77	0.60	0.62	0.68	0.68	0.67	0.81	0.67	0.74	0.75	0.75	0.70	0.71	0.71	0.72
Maximum resolution																
A	0.75	0.75	0.49	0.38	0.56	0.56	0.75	0.74	0.22	0.19	0.38	0.38	0.78	0.78	0.24	0.23
C_x	0.93	0.93	0.83	0.86	0.95	0.95	0.94	0.95	0.89	0.90	0.90	0.90	0.91	0.91	0.87	0.87
C_y	0.59	0.59	0.52	0.56	0.54	0.55	0.72	0.72	0.41	0.66	0.48	0.48	0.68	0.66	0.68	0.68
C_z	0.77	0.77	0.58	0.57	0.68	0.68	0.67	0.81	0.67	0.74	0.79	0.79	0.69	0.68	0.74	0.74

* Excellent: .8 ≤ ICC (dark green, bold); good: .65 ≤ ICC < .8 (light green); moderate: .5 ≤ ICC < .65 (yellow); poor: ICC<.5 (light red).

Table S3a. Outcome of the two-way ANOVA for the area sizes A (in mm²·µV·10⁵) with factors of *intensity* and *session* when considering the 15,000 mesh resolution and when removing the non-MEP points (M2).*

	⟨A⟩ at 105% RMT			*intensity*		*session*		*intensity × session*		*p*-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/EDC	FDI/FCR	EDC/FCR
FDI	1.51±0.20	2.32±0.46	3.88±0.99	F(2,36)=4.883	**.03**	F(1,18)=1.128	.30	F(2,36)=0.163	.71	.16	.06	.27
ADM	0.72±0.13	0.91±0.13	1.46±0.35	F(2,30)=4.921	**.03**	F(1,15)=0.854	.37	F(2,30)=0.018	.98	.43	.08	.19
APB	1.55±0.41	1.69±0.36	2.96±0.89	F(2,34)=3.412	.07	F(1,17)=1.819	.20	F(2,34)=1.903	.18	1.00	.16	.29
FPB	1.16±0.24	1.43±0.31	1.82±0.37	F(2,34)=3.866	**.03**	F(1,17)=5.534	**.03**	F(2,34)=0.627	.48	.35	.09	.46
EDC	1.00±0.14	1.01±0.14	1.44±0.26	F(2,34)=4.115	**.04**	F(1,17)=0.265	.61	F(2,34)=0.045	.96	1.00	.14	.13
FDS	0.86±0.16	1.00±0.14	1.39±0.19	F(2,30)=5.594	**.01**	F(1,15)=0.142	.71	F(2,30)=1.163	.32	1.00	**.03**	.06
ECR	1.24±0.20	1.64±0.42	2.02±0.39	F(2,32)=3.520	**.04**	F(1,16)=0.716	.41	F(2,32)=0.241	.79	.48	**.04**	.79
FCR	0.68±0.11	1.00±0.18	1.35±0.19	F(2,32)=6.245	**.01**	F(1,16)=0.662	.43	F(2,32)=1.003	.38	.36	**.01**	.27

* Bold face implies $p < .05$.

Table S3b. Outcome of the two-way ANOVA for the area sizes A (in mm²·µV·10⁵) with factors of *intensity* and *session* when considering the 100,000 mesh resolution and when removing the non-MEP points (M2).*

	⟨A⟩ at 105% RMT			*intensity*		*session*		*intensity × session*		*p*-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/EDC	FDI/FCR	EDC/FCR
FDI	1.48±0.19	2.30±0.53	4.69±1.52	F(2,36)=3.959	.06	F(1,18)=0.84	.37	F(2,36)=0.372	.56	.25	.12	.31
ADM	0.71±0.15	0.85±0.14	1.74±0.52	F(2,30)=4.261	**.05**	F(1,15)=1.054	.32	F(2,30)=0.203	.82	1.00	.09	.25
APB	1.44±0.35	1.75±0.41	3.63±1.26	F(2,34)=3.345	.08	F(1,17)=1.397	.25	F(2,34)=1.444	.25	1.00	.17	.34
FPB	1.11±0.24	1.41±0.35	2.30±0.67	F(2,34)=3.035	.09	F(1,17)=4.891	**.04**	F(2,34)=1.345	.27	.39	.18	.49
EDC	0.92±0.17	0.87±0.11	1.61±0.34	F(2,34)=5.798	**.02**	F(1,17)=0.04	.85	F(2,34)=0.016	.98	1.00	**.04**	.09
FDS	0.80±0.13	0.93±0.16	1.50±0.23	F(2,30)=6.808	**.00**	F(1,15)=1.021	.33	F(2,30)=1.488	.24	1.00	**.02**	.07
ECR	1.16±0.18	1.50±0.39	2.14±0.46	F(2,30)=3.444	**.05**	F(1,15)=0.249	.63	F(2,30)=0.796	.46	0.88	**.05**	.52
FCR	0.66±0.11	0.92±0.16	1.35±0.19	F(2,30)=6.093	**.01**	F(1,15)=1.666	.22	F(2,30)=1.77	.19	.41	**.01**	.25

* Bold face implies $p < .05$.

Table S4.Outcome of the two-way ANOVA for the C_x (in mm) with factors of *intensity* and *session* when considering the 15,000, 100,000 and maximum mesh resolution and when removing the non-MEP points (M2).*

	⟨A⟩ at 105% RMT			*intensity*		*session*		*intensity × session*		*p*-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/EDC	FDI/FCR	EDC/FCR
S4a: Resolution: 15,000 vertices												
FDI	21.26±2.06	20.71±2.03	20.95±1.95	F(2,36)=0.676	.52	F(1,18)=0.316	.58	F(2,36)=1.273	.29	.52	1.00	1.00
ADM	21.06±2.08	20.81±2.06	20.99±2.13	F(2,30)=0.112	.89	F(1,15)=0.072	.79	F(2,30)=4.687	**.02**	1.00	1.00	1.00
APB	21.02±2.06	20.56±2.00	20.42±2.09	F(2,34)=0.901	.42	F(1,17)=0.008	.93	F(2,34)=1.468	.25	.78	.65	1.00
FPB	20.66±1.93	20.56±2.04	20.44±1.97	F(2,34)=0.105	.90	F(1,17)=0.022	.88	F(2,34)=0.017	.94	1.00	1.00	1.00
EDC	19.74±2.00	19.92±2.01	19.87±1.91	F(2,34)=0.115	.89	F(1,17)=0.688	.42	F(2,34)=1.001	.38	1.00	1.00	1.00
FDS	21.40±2.09	21.07±2.22	21.51±2.06	F(2,30)=0.293	.75	F(1,15)=0.127	.73	F(2,30)=0.011	.99	1.00	1.00	1.00
ECR	19.86±2.06	19.43±2.12	19.40±2.14	F(2,32)=0.631	.54	F(1,16)=0.229	.64	F(2,32)=1.054	.36	1.00	.91	1.00
FCR	20.32±2.15	20.46±1.99	20.82±2.12	F(2,32)=0.365	.70	F(1,16)=0.093	.76	F(2,32)=0.871	.43	1.00	1.00	1.00
S4b: Resolution: 100,000 vertices												
FDI	21.62±2.09	20.91±1.95	21.03±2.03	F(2,36)=1.618	.21	F(1,18)=0.044	.84	F(2,36)=1.734	.19	.16	.71	1.00
ADM	21.16±2.16	20.95±2.06	21.14±2.04	F(2,30)=0.152	.86	F(1,15)=0.041	.84	F(2,30)=1.968	.16	1.00	1.00	1.00
APB	21.42±2.13	20.96±2.07	20.23±2.09	F(2,34)=3.04	.06	F(1,17)=0.019	.89	F(2,34)=2.077	.14	.93	.13	.43
FPB	20.88±2.03	20.53±2.07	20.31±1.95	F(2,34)=0.733	.49	F(1,17)=0.014	.91	F(2,34)=0.221	.80	1.00	.83	1.00
EDC	20.14±2.08	19.94±2.06	19.84±1.99	F(2,34)=0.658	.52	F(1,17)=0.41	.53	F(2,34)=0.054	.95	1.00	.93	1.00
FDS	21.72±2.10	21.24±2.25	21.30±2.04	F(2,30)=0.396	.68	F(1,15)=0.014	.91	F(2,30)=0.043	.96	1.00	1.00	1.00
ECR	20.46±2.27	20.23±2.25	20.22±2.2	F(2,30)=0.227	.80	F(1,15)=0.08	.78	F(2,30)=0.629	.54	1.00	1.00	1.00
FCR	20.15±2.29	20.56±2.12	20.57±2.28	F(2,30)=0.359	.70	F(1,15)=0.037	.85	F(2,30)=0.161	.85	1.00	1.00	1.00
S4c: Maximum resolution												
FDI	21.08±2.07	20.59±1.94	20.95±2.03	F(2,36)=0.677	.52	F(1,18)=0.012	.91	F(2,36)=0.825	.45	.46	1.00	1.00
ADM	20.51±2.60	20.07±2.49	20.18±2.45	F(2,24)=0.477	.63	F(1,12)=0.558	.47	F(2,24)=1.128	.34	1.00	1.00	1.00
APB	21.15±2.04	20.58±2.02	20.22±2.08	F(2,34)=1.668	.20	F(1,17)=0.026	.87	F(2,34)=1.235	.30	.63	.38	1.00
FPB	20.59±2.07	20.33±2.06	20.28±1.97	F(2,34)=0.238	.79	F(1,17)=0.002	.97	F(2,34)=0.153	.86	1.00	1.00	1.00
EDC	19.94±2.07	19.50±2.03	19.69±1.99	F(2,34)=0.674	.52	F(1,17)=0.733	.40	F(2,34)=0.395	.68	.82	1.00	1.00
FDS	21.78±2.13	20.94±2.20	21.41±2.08	F(2,30)=1.031	.37	F(1,15)=0.022	.88	F(2,30)=0.204	.82	.52	1.00	1.00
ECR	20.44±2.27	19.81±2.20	20.12±2.23	F(2,30)=0.884	.42	F(1,15)=0.065	.80	F(2,30)=0.27	.77	.55	1.00	1.00
FCR	20.17±2.24	20.22±2.11	20.60±2.24	F(2,30)=0.321	.73	F(1,15)=0.032	.86	F(2,30)=0.28	.76	1.00	1.00	1.00

* Bold face implies $p < .05$.

Table S5. Outcome of the two-way ANOVA for the C_y (in mm) with factors of *intensity* and *session* when considering the 15,000, 100,000 and maximum mesh resolution and when removing the non-MEP points (M2).*

	$\langle A \rangle$ at 105% RMT			*intensity*		*session*		*intensity × session*		*p*-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/EDC	FDI/FCR	EDC/FCR
S5a: Resolution: 15,000 vertices												
FDI	30.94±1.27	29.80±1.27	30.23±1.05	F(2,36)=1.026	.37	F(1,18)=0.176	.68	F(2,36)=3.644	**.04**	.60	1.00	1.00
ADM	30.17±1.65	29.20±1.56	29.84±1.51	F(2,30)=0.479	.62	F(1,15)=0.65	.43	F(2,30)=1.901	.17	1.00	1.00	1.00
APB	31.58±1.62	30.00±1.41	30.23±1.35	F(2,34)=2.001	.15	F(1,17)=0.006	.94	F(2,34)=3.793	**.05**	.38	.30	1.00
FPB	30.56±1.67	30.20±1.52	30.34±1.27	F(2,34)=0.057	.90	F(1,17)=0.252	.62	F(2,34)=1.7	.21	1.00	1.00	1.00
EDC	29.44±1.43	29.79±1.45	29.51±1.27	F(2,34)=0.100	.91	F(1,17)=0.258	.62	F(2,34)=1.26	.30	1.00	1.00	1.00
FDS	29.77±1.41	28.73±1.51	28.97±1.20	F(2,30)=0.658	.53	F(1,15)=0.041	.84	F(2,30)=0.57	.57	1.00	1.00	1.00
ECR	29.55±1.61	29.19±1.64	29.11±1.36	F(2,32)=0.144	.87	F(1,16)=0.255	.62	F(2,32)=2.316	.12	1.00	1.00	1.00
FCR	29.68±1.48	29.38±1.37	28.63±1.25	F(2,32)=0.587	.56	F(1,16)=0.058	.81	F(2,32)=0.764	.47	1.00	.68	1.00
S5b: Resolution: 100,000 vertices												
FDI	31.32±1.41	30.07±1.36	30.87±1.09	F(2,36)=1.226	.31	F(1,18)=0.04	.84	F(2,36)=3.657	**.04**	.45	1.00	.99
ADM	30.27±1.86	29.55±1.64	30.35±1.53	F(2,30)=0.426	.66	F(1,15)=0.196	.66	F(2,30)=1.713	.20	1.00	1.00	1.00
APB	31.78±1.66	30.94±1.46	30.56±1.41	F(2,34)=0.905	.41	F(1,17)=0.068	.80	F(2,34)=2.137	.13	1.00	.58	1.00
FPB	30.64±1.73	30.33±1.49	30.46±1.35	F(2,34)=0.046	.90	F(1,17)=0.069	.80	F(2,34)=1.071	.33	1.00	1.00	1.00
EDC	29.73±1.42	30.30±1.48	29.58±1.28	F(2,34)=0.487	.62	F(1,17)=0.652	.43	F(2,34)=2.032	.15	1.00	1.00	.97
FDS	30.34±1.44	29.49±1.55	29.64±1.15	F(2,30)=0.538	.59	F(1,15)=0.104	.75	F(2,30)=0.812	.45	.96	1.00	1.00
ECR	28.83±1.61	29.12±1.68	29.06±1.31	F(2,30)=0.058	.94	F(1,15)=0.109	.75	F(2,30)=2.469	.10	1.00	1.00	1.00
FCR	29.46±1.38	29.84±1.52	29.15±1.27	F(2,30)=0.32	.73	F(1,15)=0.044	.84	F(2,30)=0.241	.79	1.00	1.00	1.00
S5c: Maximum resolution												
FDI	31.01±1.41	29.79±1.36	30.28±1.12	F(2,36)=0.994	.38	F(1,18)=0.773	.39	F(2,36)=4.401	**.02**	.42	1.00	1.00
ADM	30.23±2.25	29.23±1.99	29.64±1.76	F(2,24)=0.488	.62	F(1,12)=2.171	.17	F(2,24)=2.021	.15	1.00	1.00	1.00
APB	31.22±1.65	30.58±1.49	30.20±1.40	F(2,34)=0.555	.58	F(1,17)=0.05	.83	F(2,34)=2.018	.15	1.00	.96	1.00
FPB	30.46±1.75	30.44±1.56	30.17±1.34	F(2,34)=0.041	.96	F(1,17)=0.63	.44	F(2,34)=0.596	.56	1.00	1.00	1.00
EDC	29.50±1.47	30.07±1.55	29.29±1.24	F(2,34)=0.478	.62	F(1,17)=0.799	.38	F(2,34)=1.721	.19	1.00	1.00	1.00
FDS	29.74±1.55	28.93±1.62	28.85±1.24	F(2,30)=0.468	.63	F(1,15)=0.575	.46	F(2,30)=1.016	.37	1.00	1.00	1.00
ECR	28.63±1.63	28.68±1.74	28.87±1.33	F(2,30)=0.042	.96	F(1,15)=0.211	.65	F(2,30)=3.445	**.05**	1.00	1.00	1.00
FCR	29.12±1.40	29.64±1.62	29.03±1.27	F(2,30)=0.260	.77	F(1,15)=0.012	.91	F(2,30)=0.795	.46	1.00	1.00	1.00

* Bold face implies $p < .05$.

Table S6. Outcome of the two-way ANOVA for the C_z (in mm) with factors of *intensity* and *session* when considering the 15,000, 100,000 and maximum mesh resolution and when removing the non-MEP points (M2).*

	$\langle A \rangle$ at 105% RMT			*intensity*		*session*		*intensity × session*		*p*-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/EDC	FDI/FCR	EDC/FCR
S6a: Resolution: 15,000 vertices												
FDI	108.18±1.69	108.65±1.72	107.70±1.55	F(2,36)=1.097	.35	F(1,18)=0.065	.80	F(2,36)=2.316	.11	1.00	1.00	.60
ADM	109.11±1.80	109.14±1.93	108.56±1.72	F(2,30)=0.380	.69	F(1,15)=0.144	.71	F(2,30)=0.714	.50	1.00	1.00	1.00
APB	108.19±1.60	108.75±1.58	108.07±1.52	F(2,34)=0.563	.53	F(1,17)=0.035	.85	F(2,34)=1.420	.26	1.00	1.00	1.00
FPB	109.12±1.70	108.14±1.74	108.09±1.71	F(2,34)=1.031	.34	F(1,17)=0.317	.58	F(2,34)=0.849	.44	1.00	.35	1.00
EDC	109.40±1.66	108.55±1.80	108.78±1.65	F(2,34)=0.929	.37	F(1,17)=0.244	.63	F(2,34)=1.099	.35	.89	.18	1.00
FDS	110.07±1.65	109.42±1.89	109.55±1.66	F(2,30)=0.602	.49	F(1,15)=0.004	.95	F(2,30)=0.356	.70	1.00	.41	1.00
ECR	108.92±1.85	108.81±1.70	108.68±1.66	F(2,32)=0.054	.95	F(1,16)=0.012	.91	F(2,32)=0.777	.41	1.00	1.00	1.00
FCR	110.35±1.46	109.51±1.68	109.87±1.57	F(2,32)=0.741	.45	F(1,16)=0.164	.69	F(2,32)=0.732	.49	.96	.85	1.00
S6b: Resolution: 100,000 vertices												
FDI	108.70±1.67	109.35±1.79	107.99±1.56	F(2,36)=2.154	.15	F(1,18)=0.074	.79	F(2,36)=3.139	.06	1.00	.37	.23
ADM	109.82±1.85	109.73±1.95	108.75±1.80	F(2,30)=1.312	.28	F(1,15)=0.003	.96	F(2,30)=1.274	.29	1.00	.55	.56
APB	108.90±1.71	109.61±1.66	108.51±1.57	F(2,34)=1.060	.36	F(1,17)=0.079	.78	F(2,34)=1.572	.22	1.00	1.00	.43
FPB	109.83±1.67	109.13±1.79	108.54±1.72	F(2,34)=1.245	.29	F(1,17)=0.000	.98	F(2,34)=0.367	.70	1.00	.22	1.00
EDC	110.42±1.66	109.35±1.86	109.35±1.67	F(2,34)=1.557	.23	F(1,17)=0.324	.58	F(2,34)=0.505	.61	.67	**.04**	1.00
FDS	110.80±1.63	110.44±1.86	109.79±1.61	F(2,30)=1.207	.30	F(1,15)=0.002	.96	F(2,30)=0.542	.59	1.00	.06	1.00
ECR	110.86±1.52	110.37±1.73	110.11±1.60	F(2,30)=0.65	.53	F(1,15)=0.112	.74	F(2,30)=0.577	.57	1.00	.32	1.00
FCR	110.99±1.57	110.19±1.78	110.15±1.67	F(2,30)=0.897	.42	F(1,15)=0.071	.79	F(2,30)=0.281	.76	0.88	.32	1.00
S6c: Maximum resolution												
FDI	108.60±1.71	109.26±1.80	108.02±1.53	F(2,36)=1.558	.23	F(1,18)=0.177	.68	F(2,36)=2.879	.07	1.00	.87	.39
ADM	108.92±2.15	108.98±2.31	108.54±2.13	F(2,24)=0.262	.77	F(1,12)=0.366	.56	F(2,24)=1.155	.33	1.00	1.00	1.00
APB	108.92±1.70	109.51±1.66	108.47±1.57	F(2,34)=0.822	.45	F(1,17)=0.048	.83	F(2,34)=0.844	.44	1.00	1.00	.65
FPB	109.78±1.70	109.03±1.80	108.59±1.69	F(2,34)=1.103	.33	F(1,17)=0.022	.88	F(2,34)=0.137	.87	1.00	.26	1.00
EDC	110.22±1.66	109.14±1.84	109.34±1.62	F(2,34)=1.411	.26	F(1,17)=0.281	.60	F(2,34)=0.389	.68	.56	.19	1.00
FDS	110.75±1.63	110.46±1.86	109.96±1.62	F(2,30)=0.663	.47	F(1,15)=0.075	.79	F(2,30)=0.959	.40	1.00	.21	1.00
ECR	110.76±1.53	110.35±1.75	109.72±1.52	F(2,30)=1.242	.30	F(1,15)=0.128	.73	F(2,30)=1.568	.23	1.00	.13	1.00
FCR	110.95±1.54	110.19±1.80	110.15±1.66	F(2,30)=0.810	.42	F(1,15)=0.138	.72	F(2,30)=0.199	.82	1.00	.22	1.00

* Bold face implies $p < .05$.

Table S7. Outcome of the two-way ANOVA for the amplitude (μV) with factors of *intensity* and *session* when considering the 15,000 mesh resolution and when removing the non-MEP points (M2).*

	⟨*A*⟩ at 105% RMT			*intensity*		*session*		*intensity × session*		p-value pairwise comparison		
	FDI	EDC	FCR	*F*	*p*	*F*	*p*	*F*	*p*	FDI/ EDC	FDI/ FCR	EDC/ FCR
FDI	286.59±38.83	365.52±64.20	561.15±127.18	F(2,36)=5.913	**.02**	F(1,18)=0.513	.48	F(2,36)=0.520	.50	.20	.05	.12
ADM	183.30±34.68	187.29±34.84	260.86±56.30	F(2,30)=5.372	**.03**	F(1,15)=0.064	.80	F(2,30)=0.792	.46	1.00	.07	.12
APB	343.04±84.23	299.11±55.85	407.51±104.16	F(2,34)=1.191	.32	F(1,17)=1.401	.25	F(2,34)=0.645	.53	1.00	1.00	.44
FPB	236.32±38.56	223.33±38.80	278.20±53.89	F(2,34)=2.053	.16	F(1,17)=7.836	**.01**	F(2,34)=2.315	.11	1.00	.70	.25
EDC	170.86±20.53	160.85±12.49	210.73±21.32	F(2,36)=6.413	**.00**	F(1,18)=0.626	.44	F(2,36)=0.352	.71	1.00	.07	**.01**
FDS	168.04±19.51	179.02±23.05	222.47±27.17	F(2,30)=4.572	**.02**	F(1,15)=3.047	.10	F(2,30)=1.604	.22	1.00	.09	.07
ECR	222.46±23.31	247.82±38.31	276.44±37.80	F(2,32)=2.586	.09	F(1,16)=0.320	.58	F(2,32)=0.237	.72	.99	.07	.75
FCR	157.21±13.97	174.40±18.41	203.78±20.27	F(2,32)=4.645	**.02**	F(1,16)=0.068	.80	F(2,32)=0.420	.66	.72	.07	.13

* Bold face implies $p < .05$.

Table S8. The ICC values for measurement are shown in the table for all the muscles. Int 1,2,3 represent the intensities of 105% RMT of FDI, EDC and FCR, respectively. The bold font implies that ICC values are excellent (ICC>0.8).

FDI	**Int1**	**Int2**	**Int3**	**ADM**	**Int1**	**Int2**	**Int3**	**APB**	**Int1**	**Int2**	**Int3**	**FPB**	**Int1**	**Int2**	**Int3**
Amp	0.73	**0.83**	0.34	Amp	0.47	0.61	0.75	Amp	0.58	0.59	0.69	Amp	0.53	**0.87**	0.73
Lat	**0.81**	**0.93**	**0.87**	Lat	0.78	0.64	0.66	Lat	0.64	0.42	0.72	Lat	0.27	0.57	0.18
CoG_x	**0.93**	**0.94**	**0.94**	CoG_x	**0.87**	**0.87**	**0.90**	CoG_x	**0.88**	**0.93**	**0.92**	CoG_x	**0.84**	**0.93**	**0.94**
CoG_y	0.74	0.64	0.60	CoG_y	0.57	0.62	0.58	CoG_y	0.75	0.62	0.65	CoG_y	0.66	0.72	0.56
CoG_z	**0.91**	**0.83**	**0.82**	CoG_z	**0.86**	0.78	0.77	CoG_z	**0.84**	0.79	0.79	CoG_z	0.77	**0.87**	**0.80**
EDC	**Int1**	**Int2**	**Int3**	**FDS**	**Int1**	**Int2**	**Int3**	**ECR**	**Int1**	**Int2**	**Int3**	**FCR**	**Int1**	**Int2**	**Int3**
Amp	0.76	0.56	0.77	Amp	0.71	0.74	0.42	Amp	**0.84**	**0.94**	0.76	Amp	0.53	0.60	0.30
Lat	0.53	0.40	0.77	Lat	0.46	0.51	0.67	Lat	0.69	**0.82**	**0.84**	Lat	0.45	0.73	0.76
CoG_x	**0.94**	**0.93**	**0.93**	CoG_x	**0.92**	**0.92**	**0.91**	CoG_x	**0.92**	**0.92**	**0.93**	CoG_x	**0.91**	**0.89**	**0.95**
CoG_y	0.75	0.50	0.63	CoG_y	0.72	0.63	0.55	CoG_y	0.75	0.70	0.64	CoG_y	0.68	0.70	0.64
CoG_z	**0.91**	0.75	**0.83**	CoG_z	**0.85**	**0.87**	0.77	CoG_z	**0.91**	0.78	**0.84**	CoG_z	**0.82**	**0.81**	**0.91**