

Supplementary Table 1. Gray Level Index (GLI) values of anterograde labeling in auditory cortical areas from tracer injections in Cases 2 and 3. Measurements were taken from the sections illustrated in Figures 4 – 9. For each injection, GLI values are sorted by area and layer. Letters A – R in the top row correspond to panel numbers in Figures 5, 7, and 9. These data are summarized graphically in Figure 10.

GLI index: FR Injection of area ML (Figure 5)

Layer	(A) RPB	(B) RT	(C) RTM	(D) AL	(E) R	(F) RM	(G) CPBa	(H) TPOa	(I) ML
1	9	2	13	10	1	14	39	13	39
2	10	3	9	9	3	13	54	8	39
3a	16	4	11	8	3	13	54	5	32
3b	28	4	16	7	2	10	55	8	24
4	45	4	27	13	1	12	63	14	24
5	15	3	15	7	1	11	28	4	33
6	14	0	13	7	1	16	35	11	33

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Layer	(J) ML	(K) A1a	(L) CPBb	(M) A1b	(N) MM	(O) A1c	(P) TPOb	(Q) CL	(R) CM
1	21	14	18	18	18	25	19	43	20
2	20	7	20	8	10	16	19	36	13
3a	13	3	23	5	10	12	18	33	12
3b	9	3	21	3	6	8	15	29	10
4	5	3	21	2	3	2	24	22	4
5	8	1	10	5	10	4	17	20	6
6	9	7	13	5	9	5	19	18	6

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GLI index: BDA injection of area CPB (Figure 7)

Layer	(A) RTM	(B) ProA	(C) RPB	(D) TPOa	(E) RM	(F) R	(G) AL	(H) MLa	(I) MLb
1	11	10	19	9	25	5	9	62	13
2	9	9	22	11	21	1	7	54	13
3a	23	10	18	14	17	1	6	48	9
3b	21	12	22	11	16	1	4	42	5
4	26	18	35	26	25	2	2	34	6
5	19	7	20	8	15	0	-1	27	5
6	19	8	25	17	9	0	-1	16	11

Layer	(J) MM	(K) TPOb	(L) A1	(M) TPOc	(N) CPBa	(O) CPBb	(P) CM	(Q) CL	(R) Tpt
1	23	1	8	36	38	21	9	26	33
2	18	6	2	43	30	11	4	24	22
3a	22	9	1	60	23	12	3	23	15
3b	16	10	1	62	24	11	2	26	6
4	11	5	2	61	28	10	2	28	3
5	18	5	0	48	32	13	1	20	2
6	20	6	3	34	30	11	1	27	2

GLI index: BDA injection of area CM (Figure 9)

Layer	A-ML	B-A1	C-MM	D-CM	E-CL	F-TPO	G-CPB	H-Tpt
1	23	25	24	18	19	8	4	1
2	16	18	17	13	19	8	4	2
3a	20	16	15	17	22	8	4	1
3b	23	11	14	24	32	6	3	3
4	23	8	9	31	37	18	7	3
5	9	8	5	12	15	3	1	1
6	4	4	3	5	9	2	1	1