



Figure S1. Evidence for auditory lexical representations in the auditory word form area.

Adaptation profile for auditory real words (RWs) using the full data set ($n = 26$), including those ($n = 2$) without corresponding untrained pseudoword scans. RWs show tight tuning to individual RWs consistent with an auditory lexicon. Horizontal black line in violin plots indicates the median. ***, **, *, and N.S. mark $p < 0.001$, < 0.01 , < 0.05 , and not significant (> 0.1), all Bonferroni-corrected for multiple comparisons.

Table S1. Individual subject AWFA ROIs

Subject	X-coordinate	Y-coordinate	Z-coordinate
sub-MR1076	-62	-16	2
sub-MR1106	-62	-16	4
sub-MR1215	-62	-16	4
sub-MR1216	-62	-12	0
sub-MR1217	-64	-20	4

sub-MR1220	-58	-16	0
sub-MR1221	-64	-14	4
sub-MR1222	-64	-10	0
sub-MR1233	-62	-12	8
sub-MR1234	-62	-12	6
sub-MR1240	-66	-16	6
sub-MR1242	-62	-16	0
sub-MR1252	-60	-10	2
sub-MR1253	-60	-10	0
sub-MR1258	-58	-12	0
sub-MR1272	-62	-18	2
sub-MR1273	-58	-18	6
sub-MR1277	-64	-18	2
sub-MR1278	-66	-22	4
sub-MR1282	-60	-12	-2
sub-MR1283	-62	-18	4
sub-MR1284	-60	-16	4
sub-MR1286	-64	-12	-2
sub-MR1287	-60	-16	6
sub-MR1289	-66	-20	2
sub-MR1294	-62	-10	2

Table S2. Significant clusters of connectivity with the AWFA

X-coordinate	Y-coordinate	Z-coordinate	Size (mm ³)	<i>p</i> FDR
64	-20	0	5239	0
-64	-28	8	5217	0
-6	12	48	970	0
50	-2	50	934	0
-12	26	58	800	0
-46	12	26	799	0
-40	-76	36	737	0
-34	24	8	429	0
18	-24	-4	351	0
-26	-62	-24	272	0
46	-68	28	258	0
12	-70	-18	256	0
34	30	54	242	0
-4	-92	4	203	0
40	-80	8	134	0
-62	-24	-14	100	0
-44	-46	-14	100	0
8	-60	68	67	0.000007

14	-92	0	63	0.000012
38	-52	48	60	0.000018
-30	-52	40	57	0.000026
6	54	16	52	0.000055
-10	-52	28	48	0.000101
-12	-66	8	45	0.00016
-6	-32	28	43	0.000206
8	8	6	43	0.000206
20	8	0	41	0.00028
24	-52	6	39	0.000383
-30	-2	56	38	0.000426
46	-58	-26	38	0.000426
26	-38	-16	32	0.001193
-6	-18	8	32	0.001193
-24	-40	-8	27	0.003037
-44	4	-36	23	0.006664
-10	-66	-16	22	0.007996
56	-24	32	21	0.009372
50	-30	56	21	0.009372
-8	58	12	18	0.017283
-6	50	10	18	0.017283
34	-52	-14	17	0.02019
-32	16	-16	17	0.02019

8	-28	30	17	0.02019
-2	-4	20	16	0.023298
-40	-48	42	16	0.023298
6	-14	30	16	0.023298
8	-34	-28	16	0.023298
-48	-36	50	15	0.02896
-32	-36	-18	14	0.034761
18	-82	12	14	0.034761
-6	-70	-26	14	0.034761