Figure 1

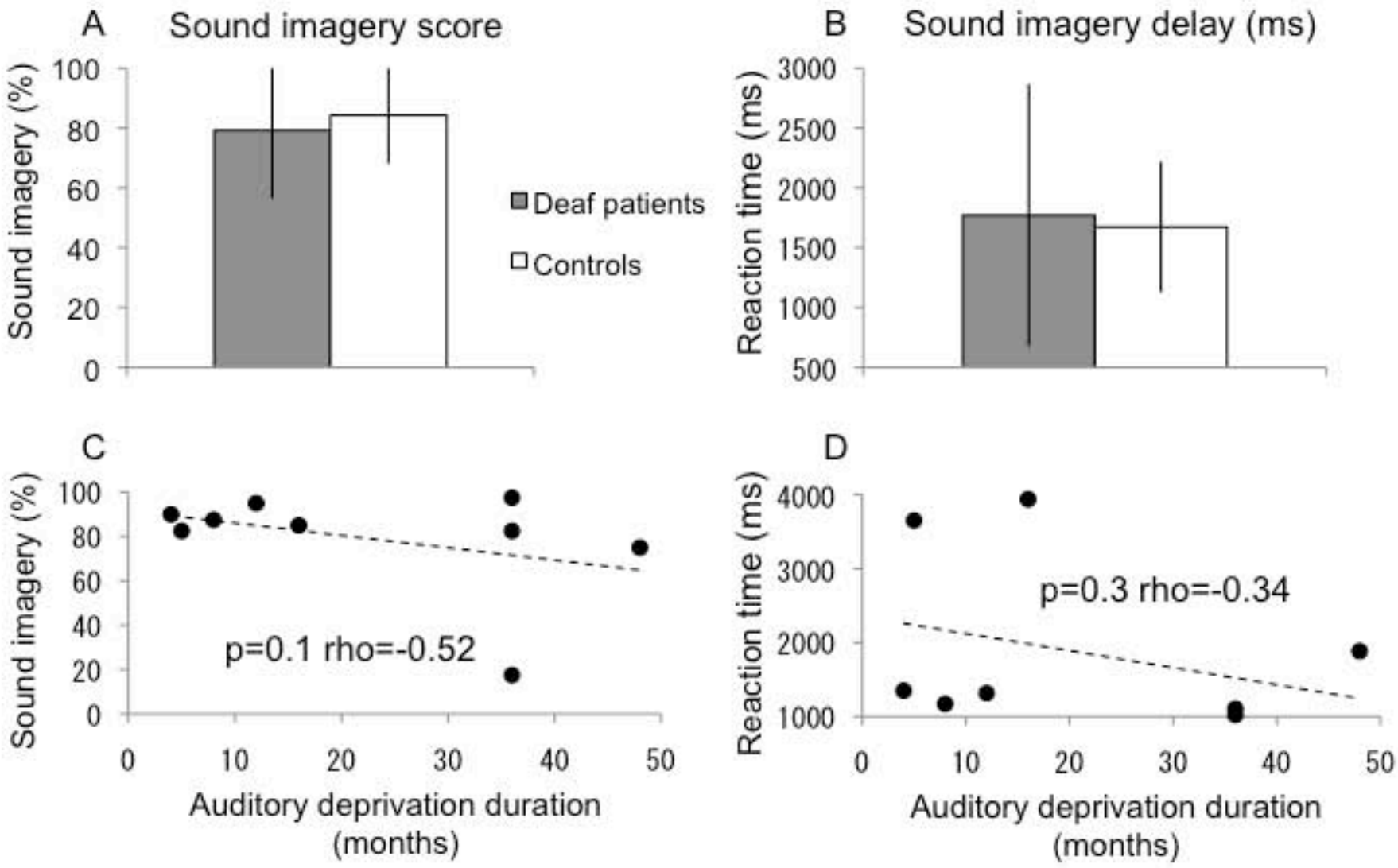

A
Sound imagery score
Sound imagery (%)
100
80
60
40
20
0
Deaf patients
Controls
B
Sound imagery delay (ms)
Reaction time (ms)
3000
2500
2000
1500
1000
500
C
Sound imagery (%)
p=0.1 rho=-0.52
0
10
20
30
40
50
Auditory deprivation duration (months)
D
Reaction time (ms)
4000
3000
2000
1000
p=0.3 rho=-0.34
0
10
20
30
40
50
Auditory deprivation duration (months)

Figure 2

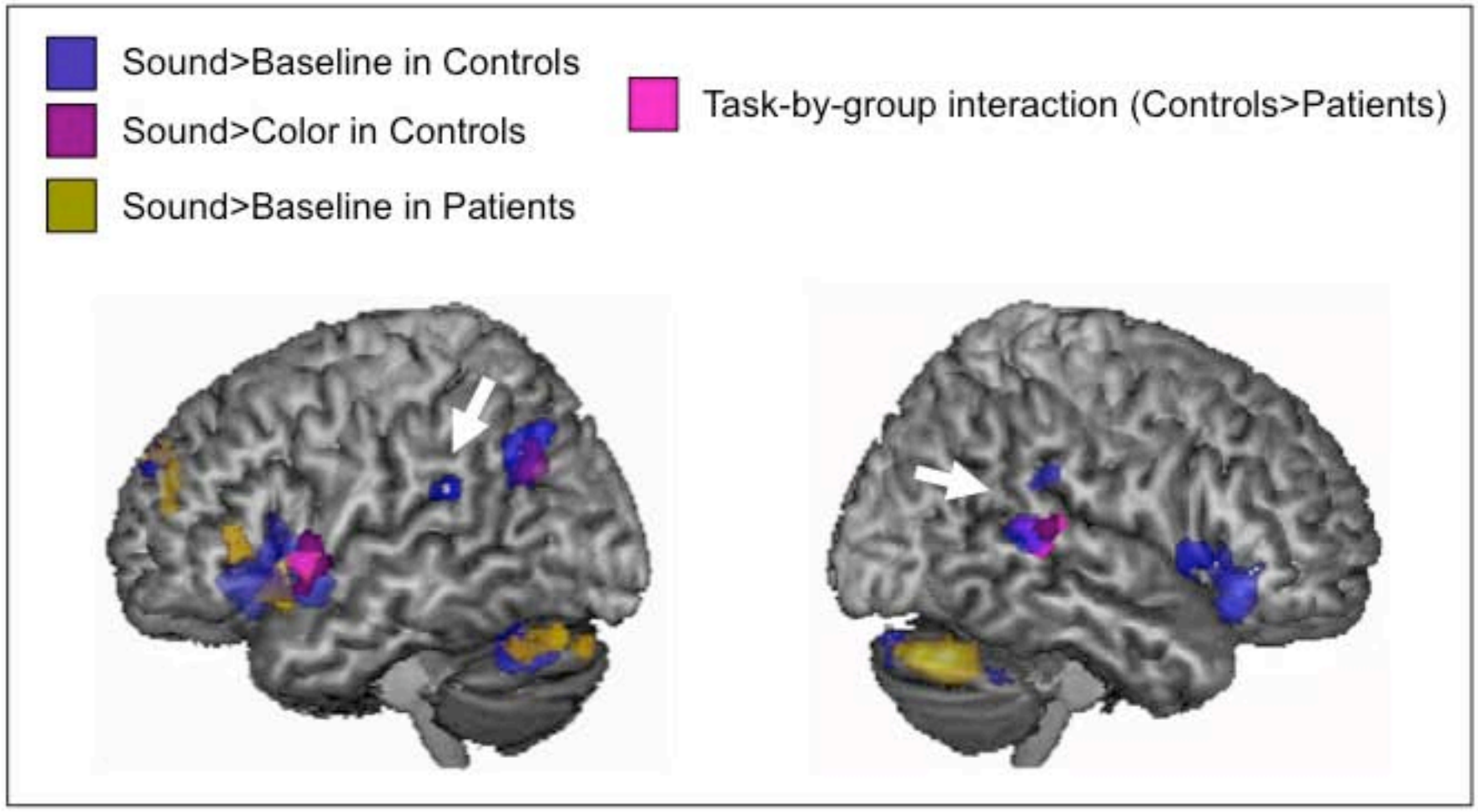
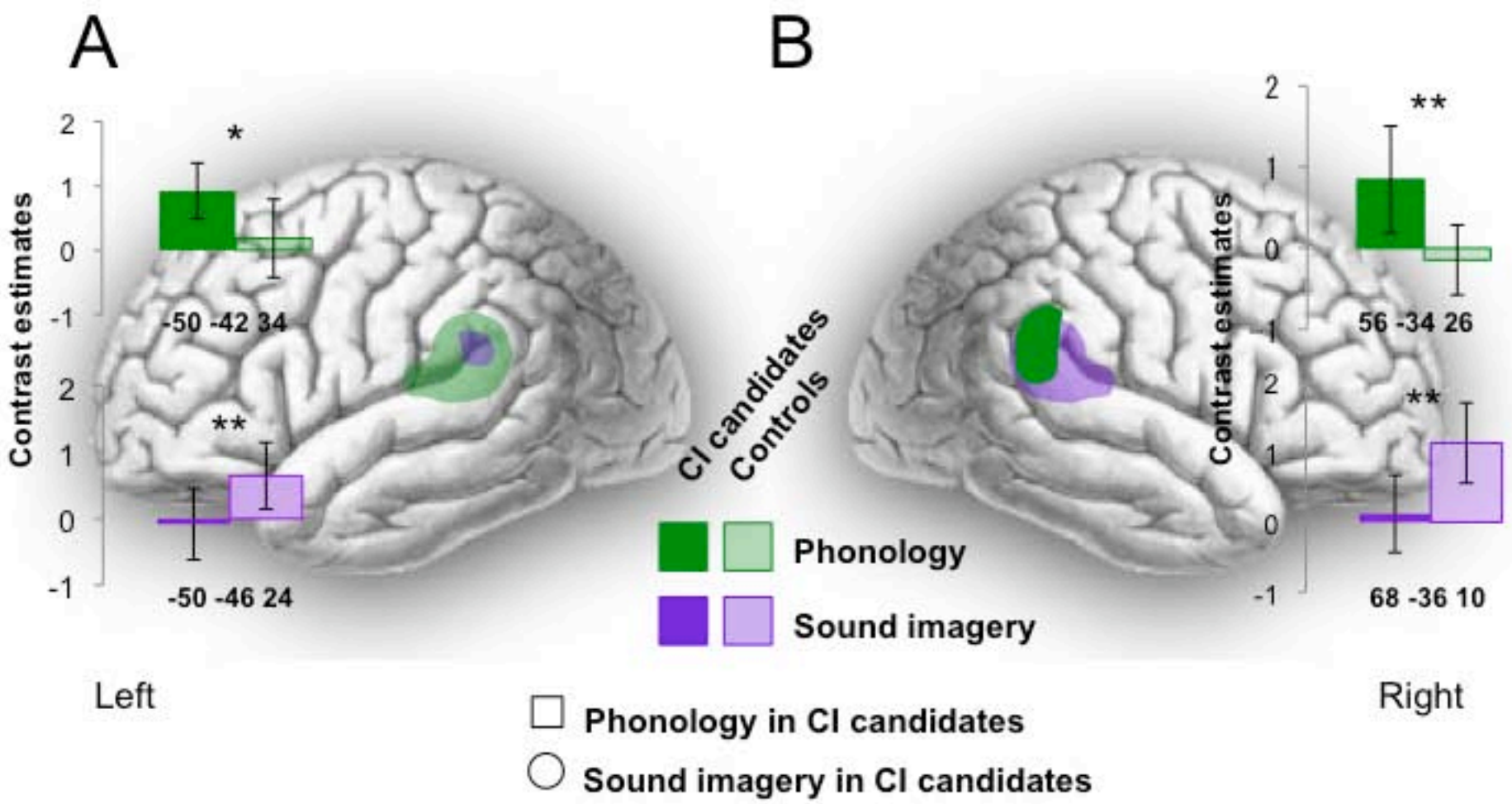
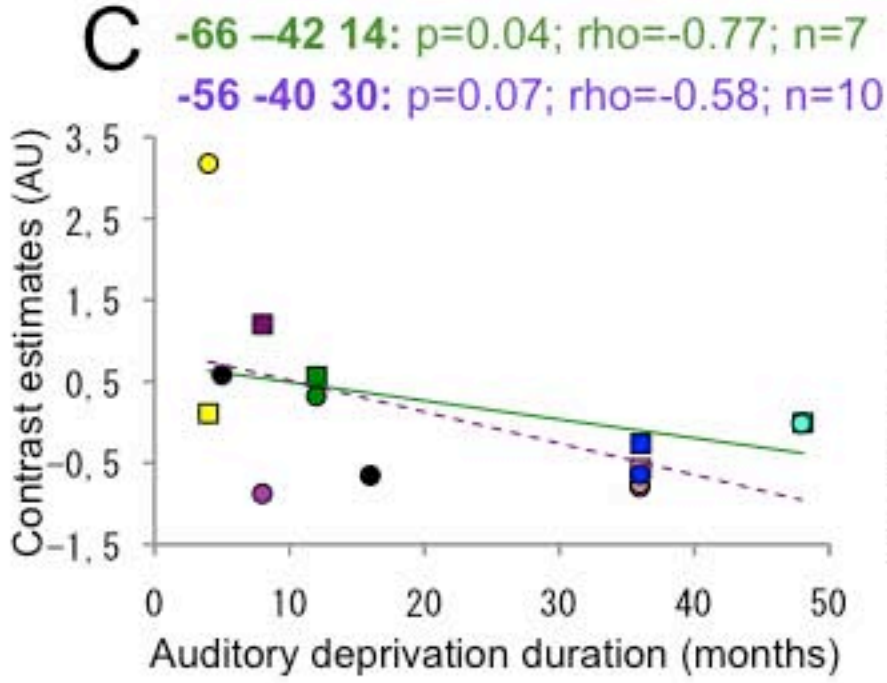
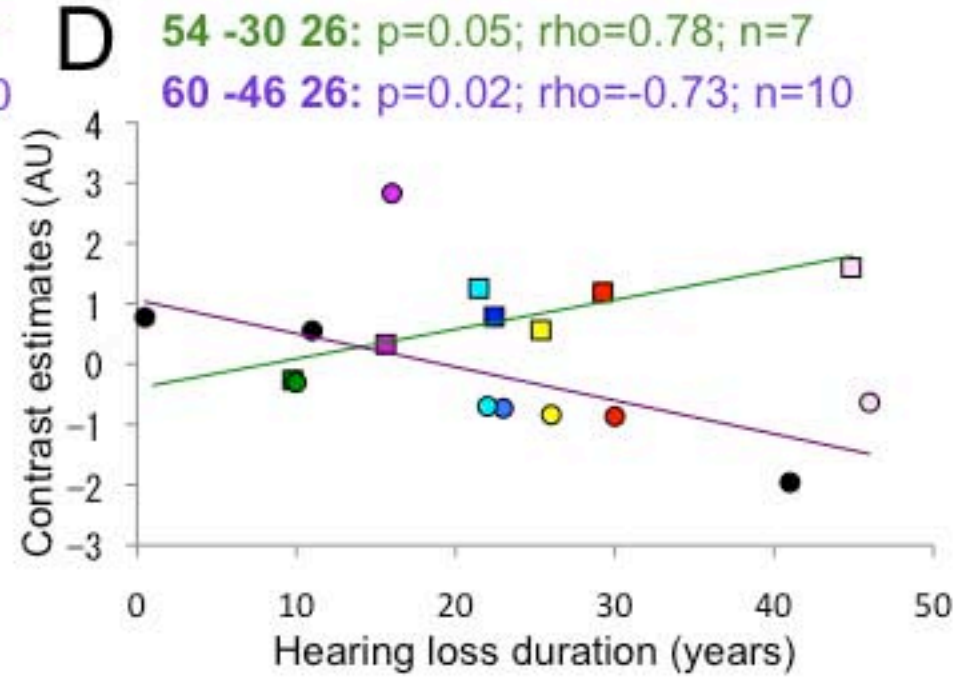
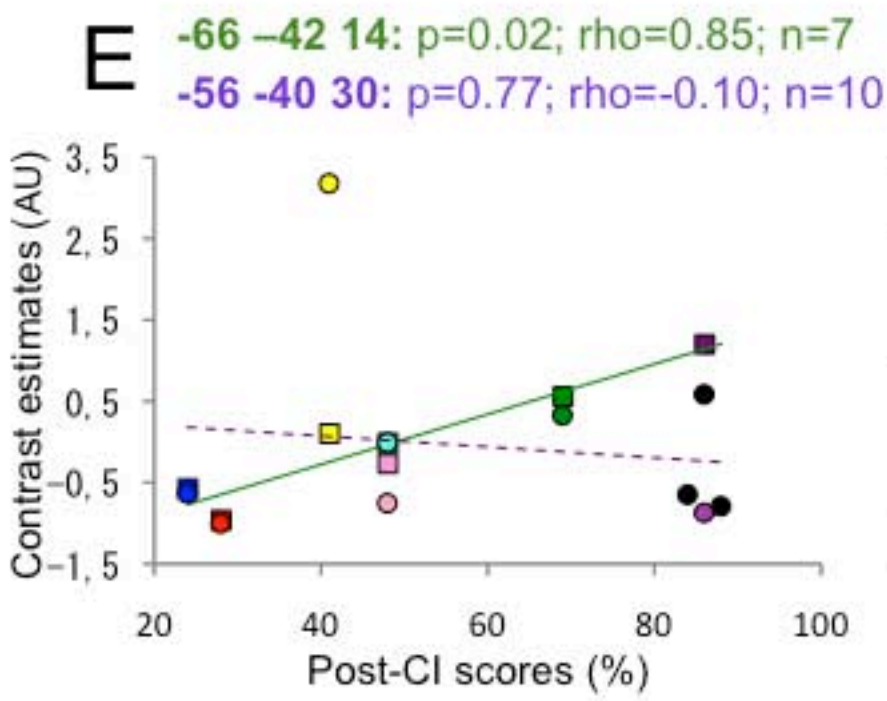

Sound>Baseline in Controls
Sound>Color in Controls
Sound>Baseline in Patients
Task-by-group interaction (Controls>Patients)

Figure 3


A
B
Contrast estimates
-50 -42 34
-50 -46 24
56 -34 26
68 -36 10
CI candidates
Controls
Phonology
Sound imagery
Left
Right
Phonology in CI candidates
Sound imagery in CI candidates


C
-66 –42 14: p=0.04; rho=-0.77; n=7
-56 -40 30: p=0.07; rho=-0.58; n=10
Contrast estimates (AU)
Auditory deprivation duration (months)


D
54 -30 26: p=0.05; rho=0.78; n=7
60 -46 26: p=0.02; rho=-0.73; n=10
Contrast estimates (AU)
Hearing loss duration (years)


E
-66 –42 14: p=0.02; rho=0.85; n=7
-56 -40 30: p=0.77; rho=-0.10; n=10
Contrast estimates (AU)
Post-CI scores (%)

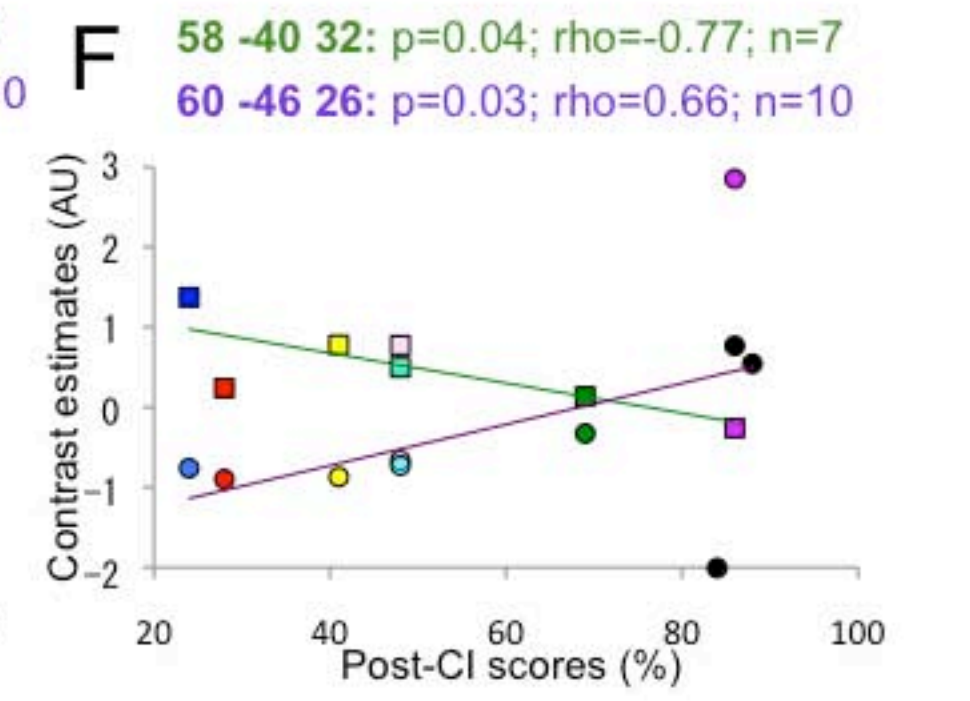
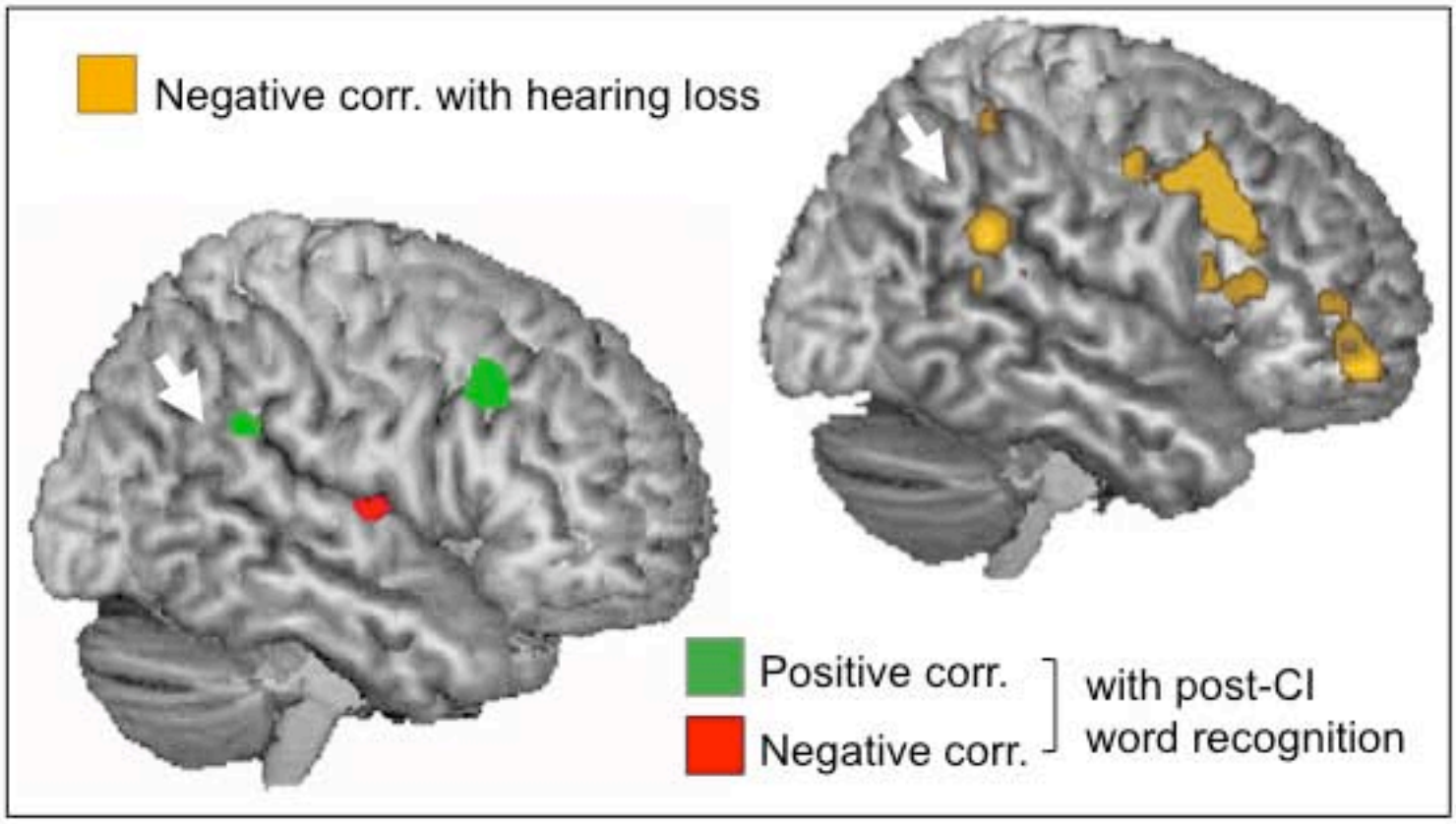
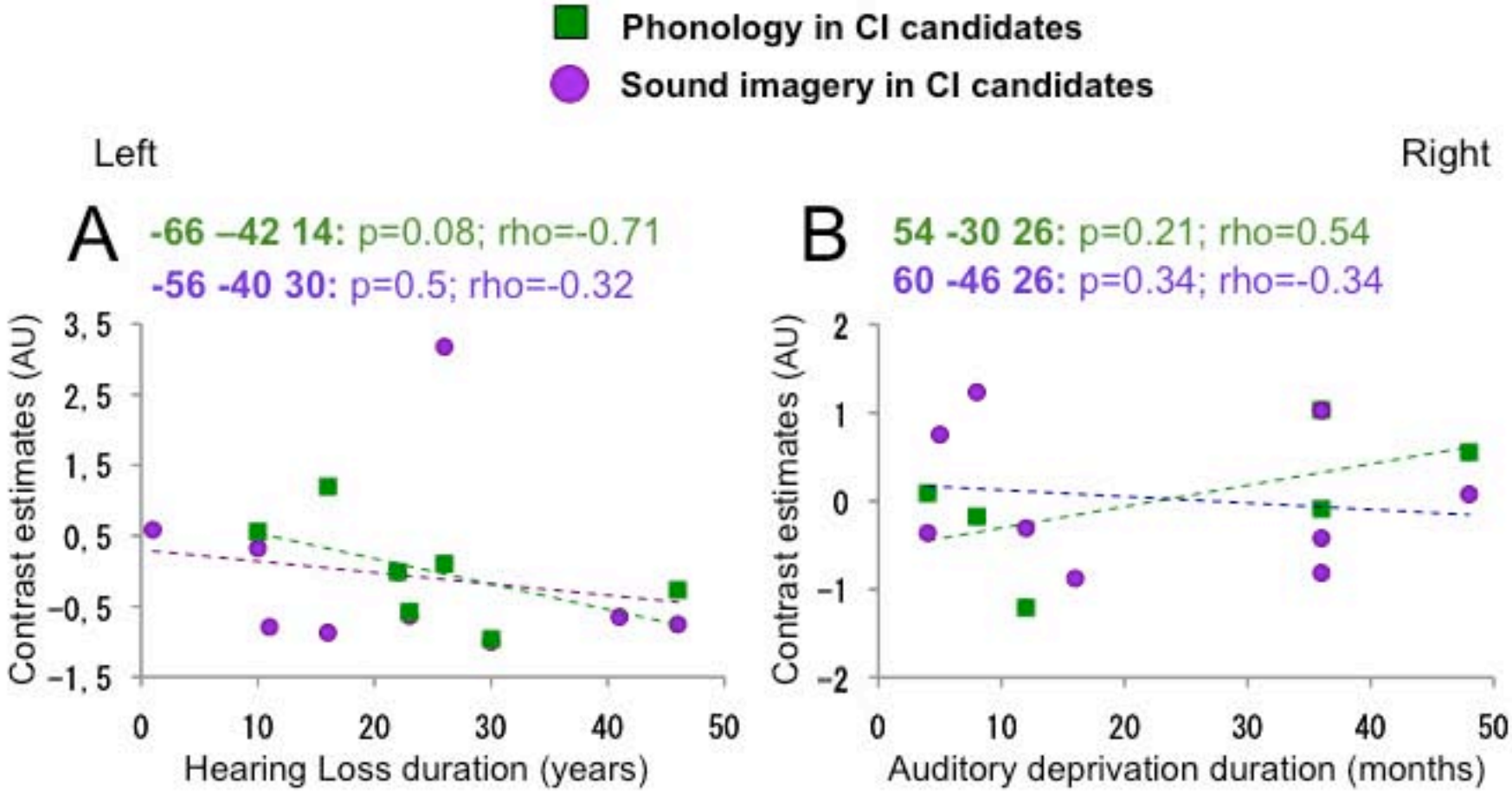

F
58 -40 32: p=0.04; rho=-0.77; n=7
60 -46 26: p=0.03; rho=0.66; n=10
Contrast estimates (AU)
Post-CI scores (%)

Figure 4


Negative corr. with hearing loss
Positive corr.
Negative corr.
with post-CI
word recognition

Supplemental Figure 1