



**Figure S1** Establishment of the standard spatial coordinate system.

**Table S1** Information on the variance of the least-squares fit

Variables	MDHE (n=33)	MDAE (n=45)	HC (n=45)
PSC-LSC	0.60±0.16	0.66±0.15	0.58±0.13
LSC-SSC	0.72±0.21	0.68±0.16	0.77±0.18
SSC-PSC	0.77±0.18	0.78±0.11	0.70±0.13

Data are presented as the mean  $\pm$  standard deviation. MDHE, Meniere's disease-healthy ear; MDAE, Meniere's disease-affected ear; HC, healthy control; PSC, posterior semicircular canal; LSC, lateral semicircular canal; SSC, superior semicircular canal.