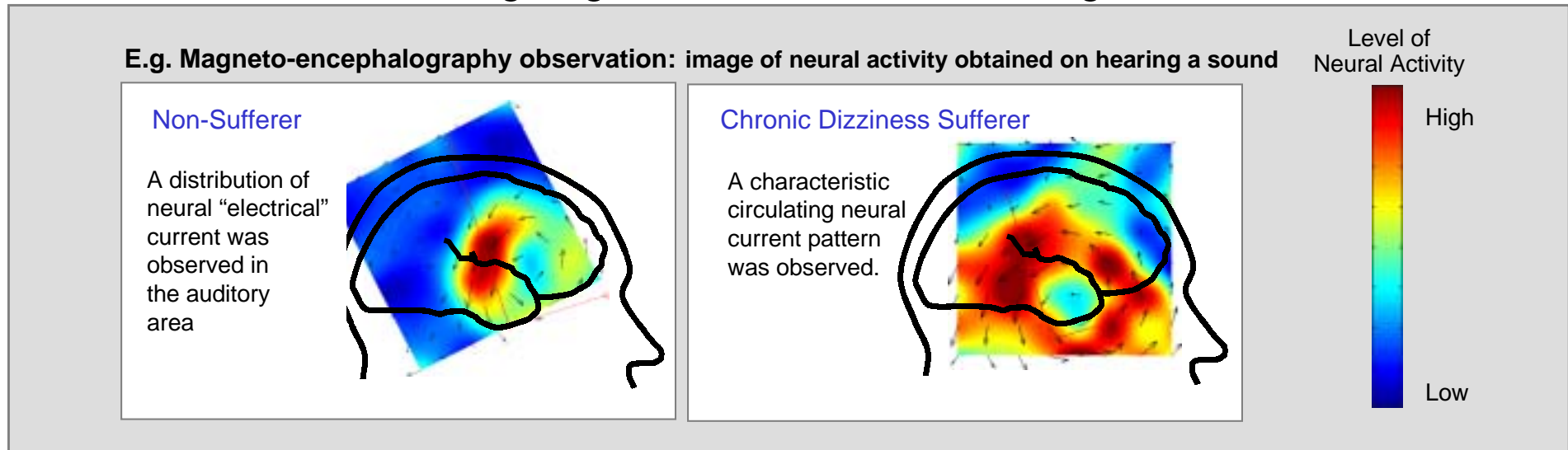


2002/11/19 Release

Successful imaging of neural activity of chronic dizziness - Enabling degree of dizziness to be diagnosed -



The Central Research Laboratory of Hitachi, Ltd., and the National Cardiovascular Center, have succeeded together in the world's first observation of the state of neural activity related to chronic dizziness. The observation achieved by developing technology which uses magneto-encephalography^(*1) that measures the slight magnetic field generated, and translates this to a current distribution image corresponding to the neural activity in the brain. This result is expected to contribute to a testing method for chronic dizziness, which until now was difficult to quantitatively measure, and technology for understanding the mechanism of neural activity triggering dizziness.

This research was performed as a part of the 2001 Medical Frontier Strategy Research (dementia & fracture) project of the Ministry of Health, Labour and Welfare.

(*1): Magneto-encephalography: Equipment which uses SQUID, superconducting quantum interference device, a highly sensitive magnetic sensor to detect the weak magnetic field which is generated in the brain when neural activity occurs.