



ORIGINAL ARTICLE

BRIEF REPORT

[◀ Previous](#) Volume 357:1829-1833 [November 1, 2007](#) Number 18 [Next ▶](#)**Visualizing Out-of-Body Experience in the Brain***Dirk De Ridder, M.D., Ph.D., Koen Van Laere, M.D., Ph.D., D.Sc., Patrick Dupont, Ph.D.,
Tomas Menovsky, M.D., Ph.D., and Paul Van de Heyning, M.D., Ph.D.***SUMMARY**

An out-of-body experience was repeatedly elicited during stimulation of the posterior part of the superior temporal gyrus on the right side in a patient in whom electrodes had been implanted to suppress tinnitus. Positron-emission tomographic scanning showed brain activation at the temporoparietal junction — more specifically, at the angular–supramarginal gyrus junction and the superior temporal gyrus–sulcus on the right side. Activation was also noted at the right precuneus and posterior thalamus, extending into the superior vermis. We suggest that activation of these regions is the neural correlate of the disembodiment that is part of the out-of-body experience.

Source Information

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Table of Contents

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Tai Y. F., Greyson B., Parnia S., Fenwick P., De Ridder D., Van Laere K., van de Heyning P.

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- (2008). The Neuroscientist Comments. *Neuroscientist* 14: 134-135
- (2008). The Neurologic Substrate of Out-of-Body Experiences. *JWatch Neurology* 2008: 3-3
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- Tai, Y. F., Greyson, B., Parnia, S., Fenwick, P., De Ridder, D., Van Laere, K., van de Heyning, P. (2008). Visualizing Out-of-Body Experience in the Brain. *NEJM* 358: 855-856 [\[Full Text\]](#)
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