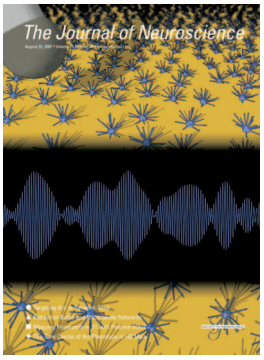
The Journal of Neuroscience

August 22, 2007 • Volume 27 Number 34 www.jneurosci.org



Cover legend:

Cover legend: Peripheral waves are stereotypes olfactory responses that have been assumed to represent the synchronous activity of olfactory receptor neurons. In this issue, Diaz et al. show that peripheral waves can instead be explained as the addition of random-phased oscillators generating an interference pattern known as Rayleigh fading. The sketch depicts a metal electrode approaching the surface of the vertebrate olfactory epithelium, whereas the trace illustrates the characteristic modulation pattern shared by peripheral waves and Rayleigh fading. For more information, see the article by Diaz et al. in this issue (pages 9238–9245).

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