Expanding *Nature Neuroscience*

**BOOK REVIEW**

3 Rhythms of Life: The Biological Clocks that Control the Daily Lives of Every Living Thing

*by Russell Foster and Leon Kreitzman*  
Reviewed by Vincent M Cassone

**NEWS AND VIEWS**

5 VEGF: multitasking in ALS  
Christine Vande Velde & Don W Cleveland  
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7 Metazoan mechanotransduction mystery finally solved  
Diane Ronan & Peter Gillespie  
▶ see also p 43

9 An eye-opening experience  
Sunil P Gandhi, Jinhua Cang & Michael P Stryker  

10 Bridging the gap: coupling single-cell oscillators in the suprachiasmatic nucleus  
Christopher S Colwell  
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12 Precision pooling predicts primate perceptual performance  
Jacob W Nadler & Gregory C DeAngelis  
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**BRIEF COMMUNICATIONS**

15 Odorant receptor heterodimerization in the olfactory system of *Drosophila melanogaster*  
E M Neuhaus, G Gisselmann, W Zhang, R Dooley, K Störtkuhl & H Hatt

18 Insulin signaling in the nervous system regulates ethanol intoxication in *Drosophila melanogaster*  
A B Corl, A R Rodan & U Heberlein

20 Amygdala-prefrontal coupling depends on a genetic variation of the serotonin transporter  
A Heinz, D F Braus, M N Smolka, J Wrase, I Puls, D Hermann, S Klein, S M Grüsser, H Flor, G Schumann, K Mann & C Büchel

22 Traveling waves of activity in primary visual cortex during binocular rivalry  
S-H Lee, R Blake & D J Heeger

24 Discriminating emotional faces without primary visual cortices involves the right amygdala  
A J Pegna, A Khatib, F Lazeyras & M L Seghier

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Insulin regulates inebriation in flies (p 18)
ARTICLES

27 Protection of p27Kip1 mRNA by quaking RNA binding proteins promotes oligodendrocyte differentiation
D Larocque, A Galarneau, H-N Liu, M Scott, G Almazan & S Richard

34 Wnt signaling through Dishevelled, Rac and JNK regulates dendritic development
S B Rosso, D Sussman, A Wynshaw-Boris & P C Salinas

43 The MEC-4 DEG/ENaC channel of Caenorhabditis elegans touch receptor neurons transduces mechanical signals
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51 Conditional transgenic suppression of M channels in mouse brain reveals functions in neuronal excitability, resonance and behavior
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61 Electrical synapses coordinate activity in the suprachiasmatic nucleus
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67 Spike phase precession persists after transient intrahippocampal perturbation
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72 High frequency, synchronized bursting drives eye-specific segregation of retinogeniculate projections
C L Torborg, K A Hansen & M B Feller

79 Natural oligomers of the amyloid-β protein specifically disrupt cognitive function
J P Cleary, D M Walsh, J J Hofmeister, G M Shankar, M A Kuskowski, D J Selkoe & K H Ashe

85 Treatment of motoneuron degeneration by intracerebroventricular delivery of VEGF in a rat model of ALS

93 Anatomical traces of juvenile learning in the auditory system of adult barn owls
B A Linkenhoker, C G von der Ohe & E I Knudsen

99 Neural population code for fine perceptual decisions in area MT
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107 Morphing Marilyn into Maggie dissociates physical and identity face representations in the brain
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114 Attentional modulation in human primary olfactory cortex
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NATURE NEUROSCIENCE CLASSIFIED

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