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The Macmillan Building,  
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Nature\* (ISSN 0028-0836) is published by Nature Publishing Group, a division of Macmillan Publishers Ltd (The Macmillan Building, 4 Crinan Street, London N1 9XW). Registered as a newspaper at the British Post Office.

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In the US Nature (ISSN 0028-0836) is published weekly on Thursday, except the last week in December by Nature Publishing Group, 75 Varick St, 9th Fl, New York NY 10013-1917, USA. US Periodicals postage paid at New York NY, and additional mailing post offices. US POSTMASTER: send address changes to Nature, Subscription Dept, 342 Broadway PMB 301, New York NY 10013-3910, USA. Published in Japan by NPG Nature Asia-Pacific, Chiyoda Building, 2-37 Ichigayatamachi, Shinjuku-ku, Tokyo 162-0843, Japan. © 2010 Macmillan Publishers Limited. All rights reserved.



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## NATURE ONLINE

## ADVANCE ONLINE PUBLICATION

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**Global and local fMRI signals driven by neurons defined optogenetically by type and wiring**

J H Lee, R Durand, V Gradinaru, F Zhang, I Goshen, D-S Kim, L E Fenno, C Ramakrishnan & K Deisseroth **doi:10.1038/nature09108**

**Moonlighting bacteriophage proteins derepress staphylococcal pathogenicity islands**

M Á Tormo-Más, I Mir, A Shrestha, S M Tallent, S Campoy, Í Lasa, J Barbé, R P Novick, G E Christie & J R Penadés **doi:10.1038/nature09065**

PUBLISHED ON 19 MAY 2010

**Polymorphism control of superconductivity and magnetism in  $\text{Cs}_3\text{C}_{60}$  close to the Mott transition**

A Y Ganin *et al.* **doi:10.1038/nature09120**

**Sequence space and the ongoing expansion of the protein universe**

I S Povolotskaya & F A Kondrashov **doi:10.1038/nature09105**

**Helical assembly in the MyD88-IRAK4-IRAK2 complex in TLR/IL-1R signalling**

S-C Lin, Y-C Lo & H Wu **doi:10.1038/nature09121**

**A novel and unified two-metal mechanism for DNA cleavage by type II and IA topoisomerases**

B H Schmidt, A B Burgin, J E Deweese, N Osheroff & J M Berger **doi:10.1038/nature08974**

## PODCAST LATEST

On the podcast this week, the regular features plus background on research into the relationship between the incidence of malaria and climate trends — which concludes that global warming is unlikely to interfere with antimalarial programmes.

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