

# 1114

Arthur was transferred to a chimp sanctuary last year.

## NEWS

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3D structure arises in a dish as cell types interact to promote differentiation *By E. Pennisi*

#### **1110 SPOOKY ACTION ACHIEVED AT RECORD DISTANCE**

Entangled photons from Chinese satellite foreshadow space-based quantum network *By G. Popkin*

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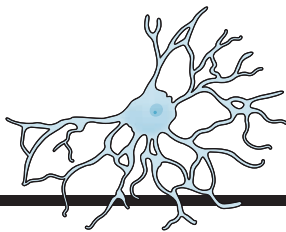
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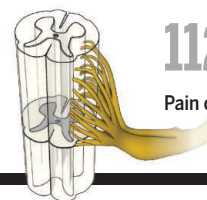
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Are there good and bad microglia?



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Pain control by microRNA

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Maximizing the right stuff: The trade-off between membrane permeability and selectivity *H. B. Park* et al.

REVIEW SUMMARY; FOR FULL TEXT: [dx.doi.org/10.1126/science.aab0530](http://dx.doi.org/10.1126/science.aab0530)

## RESEARCH ARTICLES

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RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: [dx.doi.org/10.1126/science.aal4713](http://dx.doi.org/10.1126/science.aal4713)

### 1139 MALARIAL GENOMICS

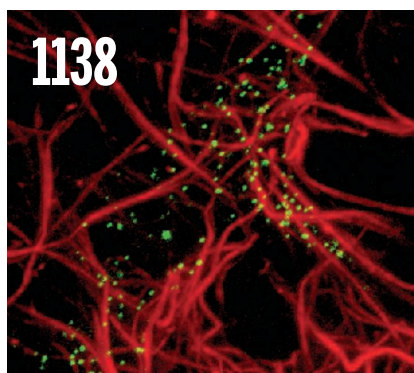
Resistance to malaria through structural variation of red blood cell invasion receptors *E. M. Leffler* et al.

RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: [dx.doi.org/10.1126/science.aam6393](http://dx.doi.org/10.1126/science.aam6393)  
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Satellite-based entanglement distribution over 1200 kilometers *J. Yin* et al.

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Controlling guest conformation for efficient purification of butadiene *P.-Q. Liao* et al.

## ON THE COVER



Artist's rendering of the quantum science satellite Micius, distributing two entangled photons to two locations separated by ~1200 kilometers on Earth. This approach is much more efficient

than direct transmission through optical fibers, thus opening up a new avenue for global-scale quantum networks and foundational quantum optics experiments in space. See pages 1110 and 1140. Illustration: C. Bickel/*Science*; Satellite model credit: Jian-Wei Pan

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