

SPECIAL SECTION

# The Gut Microbiota

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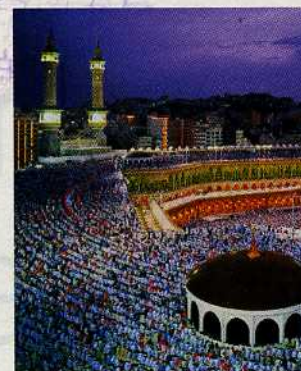
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**COVER**

Human intestinal bacteria (field-of-view width: ~11.4 μm). The human gut is teeming with symbiotic microbes that interact with their host to maintain health. A joint *Science* and *Science Translational Medicine* special section (see page 1245) explores advances in microbial ecology, microbial and host metabolisms, and interactions between gut microbes and the host immune system. Complementary articles discuss how to apply this knowledge to boost health and nutrition, combat infectious disease, and control noncommunicable diseases such as obesity and diabetes.

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**1275 The Stomatopod Dactyl Club: A Formidable Damage-Tolerant Biological Hammer**  
*J. C. Weaver et al.*  
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**1280 Quantum Information Storage for over 180 s Using Donor Spins in a <sup>28</sup>Si "Semiconductor Vacuum"**  
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**1283 Room-Temperature Quantum Bit Memory Exceeding One Second**  
*P. C. Maurer et al.*  
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**1287 Bright Coherent Ultrahigh Harmonics in the keV X-ray Regime from Mid-Infrared Femtosecond Lasers**  
*T. Popmintchev et al.*  
 An electron excitation process in a high-pressure gas converts infrared light into a well-confined beam of x-rays.

**1291 The Heliosphere's Interstellar Interaction: No Bow Shock**  
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**1294 Templating Three-Dimensional Self-Assembled Structures in Bilayer Block Copolymer Films**  
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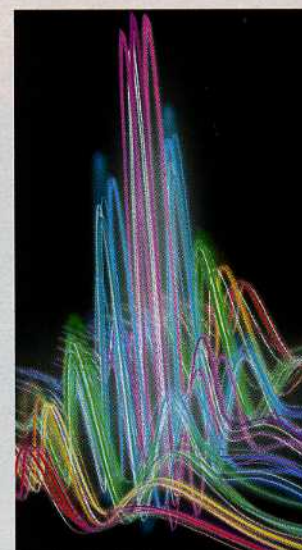
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*P. Nancy et al.*  
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**1321 Innate Lymphoid Cells Promote Anatomical Containment of Lymphoid-Resident Commensal Bacteria**  
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 >> *News story p. 1228; The Gut Microbiota section p. 1245*

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