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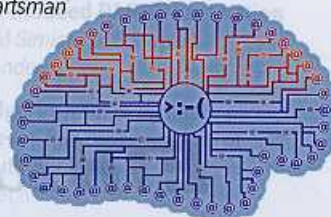
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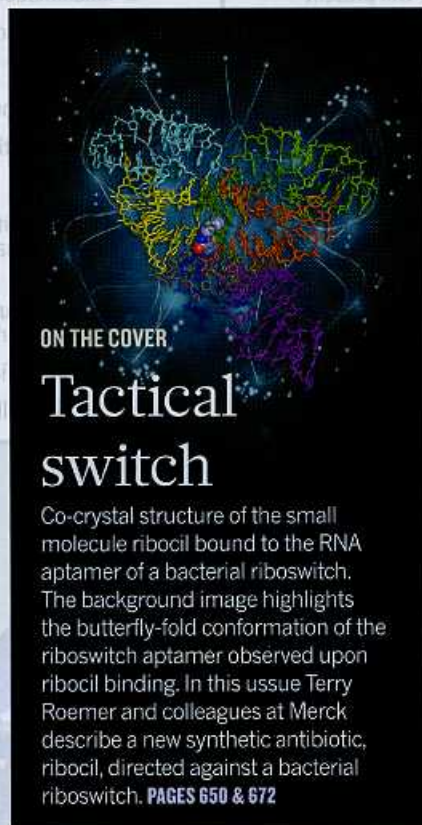
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ON THE COVER

## Tactical switch

Co-crystal structure of the small molecule ribocil bound to the RNA aptamer of a bacterial riboswitch. The background image highlights the butterfly-fold conformation of the riboswitch aptamer observed upon ribocil binding. In this issue Terry Roemer and colleagues at Merck describe a new synthetic antibiotic, ribocil, directed against a bacterial riboswitch. PAGES 650 & 672

660 **IMMUNOLOGY** Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death  
*J Shi et al.* SEE N&V P.642

666 **IMMUNOLOGY** Caspase-11 cleaves gasdermin D for non-canonical inflammasome signalling  
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672 **DRUG DISCOVERY** Selective small-molecule inhibition of an RNA structural element  
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682 **QUANTUM PHYSICS** Loophole-free Bell inequality violation using electron spins separated by 1.3 kilometres  
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687 **CHEMISTRY** Organometallic palladium

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696 **PALAEOANTHROPOLOGY** The earliest unequivocally modern humans in southern China  
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710 **NEUROSCIENCE** CMT2D neuropathy is linked to the neomorphic binding activity of glycyl-tRNA synthetase  
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719 **MICROBIOLOGY** Bacteriocin production augments niche competition by enterococci in the mammalian gastrointestinal tract  
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723 **STRUCTURAL BIOLOGY** Crystal structure of the 500-kDa yeast acetyl-CoA carboxylase holoenzyme dimer  
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SHARON M O'BRIEN