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False-colored scanning electron microscopy image of innate immune cells and the parasite Trypanosoma brucei (purple; length: 15 micrometers) in an infected mouse liver. The parasite is transmitted between mammalian hosts, including humans, by the bite of infected tsetse flies and is responsible for human sleeping sickness, a lethal disease that is a serious problem in Africa. See page 463.

Image: Gilles Vanwaalvelhem, Daniel Monteyne, Etienne Pays, and David Pérez-Morga, Laboratory of Molecular Parasitology and Center for Microscopy and Molecular Imaging, Université Libre de Bruxelles, Gosselies, Belgium

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The United States faces a severe shortage of qualified scientists—so why are there so many unemployed scientists?
http://scim.ag/EE_NotWanted

Q&A: A Career on the Fence
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A graduate school dean and former Olympic athlete reflects on science, fencing, and how the two activities have benefited each other.
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Plan to attend a signaling-relevant meeting, with more than 30 new meetings and conferences added in July.

SCIENCE SIGNALING
The Signal Transduction Knowledge Environment
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RESEARCH ARTICLE: p53 Functions in Endothelial Cells to Prevent Radiation-Induced Myocardial Injury in Mice
C.-L. Lee et al.

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D. G. Kirsch et al.
The transcription factor p53 protects the heart from radiation-induced damage.

RESEARCH ARTICLE: Distinct Spatial and Molecular Features of Notch Pathway Assembly in Regulatory T Cells
L. R. Perumalsamy et al.

PERSPECTIVE: Notch and the Survival of Regulatory T Cells—Location Is Everything!
L. M. Minter and B. A. Osborne
A cytosolic function of Notch helps regulatory T cells survive.

GLOSSARY
Find out what CTK, Rag, and Rheb mean in the world of cell signaling.

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Integrating Medicine and Science
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E. W. Petersdorf et al.
The success of HLA-matched unrelated donor hematopoietic cell transplantation depends on non-HLA MHC region genetic variation.

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J. C. Choi et al.
Cardiomyopathy arising from lamin A/C mutations in mice can be corrected by enhancing autophagy through blockade of mTOR with temsirolimus.

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F. J. Ramos et al.
Rapamycin treatment of a mouse model for a human laminopathy improves cardiac and muscle function, suggesting a therapy for human patients.

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