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Image: T. Deerinck and M. Ellisman/National Center for Microscopy and Imaging Research, University of California, San Diego

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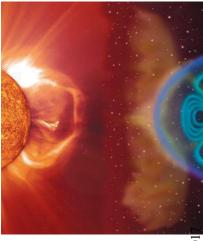
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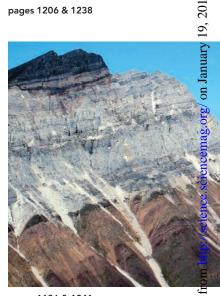
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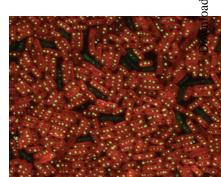
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Researchers find more mundane explanation for demise of colorful amphibian.

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RESEARCH ARTICLE: Polycomb Group Proteins as Epigenetic Mediators of Neuroprotection in Ischemic Tolerance

M. Stapels et al.

Polycomb group proteins protect neurons from injury through a mechanism involving decreased potassium channel function.

RESEARCH ARTICLE: Characterization of a Domain that Transiently Converts Class 2 DYRKs into Intramolecular Tyrosine Kinases

R. Kinstrie et al

An N-terminal region of a dual-specificity kinase temporarily enables it to phosphorylate a tyrosine rather than a serine or threonine residue.

RESEARCH ARTICLE: Crystal Structure of the α -Kinase Domain of *Dictyostelium* Myosin Heavy Chain Kinase

Q. Ye et al.

Structural analysis identifies features of atypical serine-threonine kinases that may account for their different activities when compared to those of conventional kinases.

PERSPECTIVE: Allosteric Protein Kinase Regulation by Pseudokinases—Insights from STRAD

T. Rajakulendran and F. Sicheri

A kinase becomes activated when it binds as the "substrate" of a pseudokinase.

GLOSSARY

Find out what CD4, TEM8, and SLK mean in the world of cell signaling.

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B. L. Benderly

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Agents that target bacterial outer-membrane synthesis effectively tackle antibiotic-resistant infections.

PERSPECTIVE: Of Mice and Men—How an Oncogene Transgresses the Limits and Predisposes to T Cell Acute Lymphoblastic Leukemia

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RESEARCH ARTICLE: Safety and Efficacy of Subretinal Readministration of a Viral Vector in Large Animals to Treat Congenital Blindness D. Amado et al.

After gene therapy to correct retinal degeneration in one eye, treatment of the second eye is effective—even when immunity to the vector is present.

RESEARCH ARTICLE: Blood Gene Expression Signatures Predict Invasive Candidiasis

A. K. Zaas et al.

The development and validation of a gene expression signature is shown to be effective for the diagnosis of *C. albicans* blood stream infection.

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