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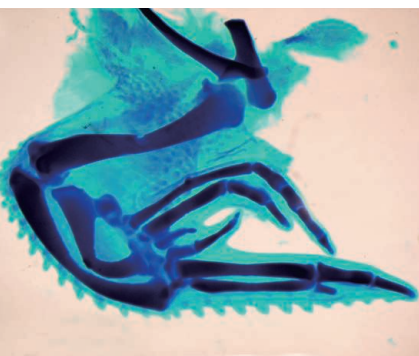
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Regulated deaggregation allows meningitis-causing bacteria to propagate to new host cells and migrate across epithelia.

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The World's Technological Capacity to Store, Communicate, and Compute Information

M. Hilbert and P. López

An inventory of the world's technological capacity from 1986 to 2007 reveals the evolution from analog to digital technologies.

10.1126/science.1200970

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10.1126/science.1201847

Different B Cell Populations Mediate Early and Late Memory During an Endogenous Immune Response

K. A. Pape et al.

A cell enrichment technique reveals the dynamics of the endogenous memory B cell response.

10.1126/science.1201730

Tomography of Reaction-Diffusion Microemulsions Reveals Three-Dimensional Turing Patterns

T. Bánsági Jr. et al.

Tomography reveals three-dimensional Turing patterns created by the Belousov-Zhabotinsky reaction running in a microemulsion.

10.1126/science.1200815

Dynamic Control of Chiral Space in a Catalytic Asymmetric Reaction Using a Molecular Motor

J. Wang and B. L. Feringa

Photoisomerization of a molecular catalyst changes its conformation and switches the chirality of its reaction product.

10.1126/science.1199844

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<http://scim.ag/pink-terrace>

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<http://scim.ag/sand-trick>

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8 February issue: <http://scim.ag/ss020811>

RESEARCH ARTICLE: The Crystal Structure of a Self-Activating G Protein α Subunit Reveals Its Distinct Mechanism of Signal Initiation

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The *Arabidopsis* G protein α subunit exhibits properties necessary and sufficient for receptor-independent activation.

PERSPECTIVE: $G\alpha_q$ and Phospholipase C- β —Turn On, Turn Off, and Do It Fast

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A crystal structure illuminates reciprocal regulation between a G protein and its effector.

PERSPECTIVE: How Cells Use Pseudopods for Persistent Movement and Navigation

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A model of pseudopod formation, splitting, and persistence describe how cells migrate.

GLOSSARY

Find out what MAX, FRK, and TIMP mean in the world of cell signaling.

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COMMENTARY: Power to the People—Participant Ownership of Clinical Trial Data

S. F. Terry and P. F. Terry

The time has come to crowd-source data for diagnostic and therapeutics development.

COMMENTARY: Electronic Consent Channels—Preserving Patient Privacy Without Handcuffing Researchers

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Policy-makers, researchers, and information technology leaders can help transform how we protect and use patient data.

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Photodynamic therapy suppresses metastasis by eradicating both the in-transit tumor cells and their conduit to distant tissues.

RESEARCH ARTICLE: 5-Lipoxygenase Metabolite 4-HDHA Is a Mediator of the Antiangiogenic Effect of ω -3 Polyunsaturated Fatty Acids

P. Sapieha et al.

In mice, certain fatty acids in the diet are converted to a metabolite that blocks destructive vessel growth similar to diabetic retinopathy.

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More Than Words: Biomedical Ontologies Provide New Scientific Opportunities

C. Wald

Biomedical ontology is growing as an informatics specialty, and ontologies are proving to be powerful software and data-mining tools.

Surfing the Tsunami

E. Pain

Scientists in many disciplines need informatics and computational skills to exploit the increasingly vast quantities of available data.

Sharing Data in Biomedical and Clinical Research

K. Travis

It's not always clear how or where to share raw data, particularly when it includes patient information.

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