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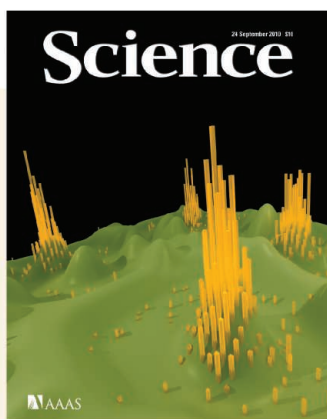


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COVER

Overlay of a scanning tunneling microscope image of four iron-copper dimers adsorbed on a surface (green) with a snapshot of their electron-spin dynamics (yellow spikes). On page 1628, Loth *et al.* describe the measurement of electron spin relaxation times of individual atoms extracted from a time series of tunneling current measurements with nanosecond time resolution.

Image: Sebastian Loth, IBM Research/Almaden

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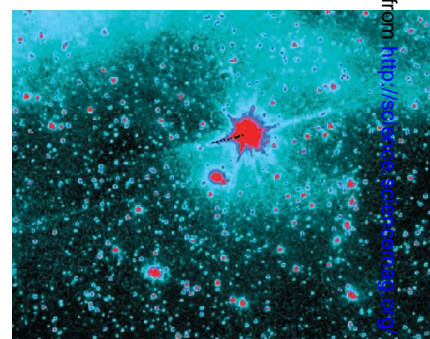
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Intestinal Stem Cell Replacement Follows a Pattern of Neutral Drift

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Narcissists' ideas aren't any more creative, but narcissists help get things done.

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RESEARCH ARTICLE: Synthetic Lethal Screen of an EGFR-Centered Network to Improve Targeted Therapies

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A targeted RNAi screen reveals potential targets for combination approaches to cancer treatment.

RESEARCH ARTICLE: Regulation of Ras Localization by Acylation Enables a Mode of Intracellular Signal Propagation

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Active Ras is relayed between subcellular compartments by the acylation cycle.

PERSPECTIVE: The Myelin Brake—When Enough Is Enough

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The lipid phosphatase PTEN and the scaffold protein Dlg1 restrict myelination in the peripheral nervous system.

NETWATCH: Peptidome

Deposit experimental mass spectrometry data into a public repository; in Technical Information.

NETWATCH: DNASU Plasmid Repository

Browse and contribute to a repository that archives and distributes plasmids; in Technical Information.

SCIENCE CAREERS

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The 50-year partnership of Don and Ada Olins is based on good communication and a shared passion for chromatin structure.

Don't Worry, I'm (Un)Professional:

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REVIEW: Long Synthetic Peptides for the Production of Vaccines and Drugs—A Technological Platform Coming of Age

G. Corradin et al.

Improved methods for producing long synthetic peptides, together with bioinformatics approaches, offer promise for developing clinically relevant products.



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Rational combination therapy.

RESEARCH ARTICLE: A Naturally Occurring Human Minidysferlin Protein Repairs Sarcolemmal Lesions in a Mouse Model of Dysferlinopathy

M. Krahn et al.

Gene therapy by mini-gene transfer may be useful for treating patients with certain progressive muscular dystrophies.

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