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REVIEW

A Parsimonious Model for Gene Regulation by miRNAs.

S. Djuranovic et al.

BREVIA

The 2010 Amazon Drought.

S. L. Lewis et al.

Amazonia experienced lower rainfall and higher calculated carbon emissions from tree deaths than in the 2005 drought.

RESEARCH ARTICLE

The Ecoresponsive Genome of *Daphnia pulex*.

J. K. Colbourne et al.

The Daphnia genome reveals a multitude of genes and shows adaptation through gene family expansions.

REPORTS

KOI-126: A Triply Eclipsing Hierarchical Triple with Two Low-Mass Stars.

J. A. Carter et al.

The Kepler telescope detected a triple stellar system and reveals details of the structure of low-mass stars.

Ultralong-Range Polaron-Induced Quenching of Excitons in Isolated Conjugated Polymers.

J. C. Bolinger et al.

Visualization of the fluorescence of a single-conducting-polymer chain provides insight into energy-relaxation mechanisms.

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Two-Dimensional Nanosheets Produced by Liquid Exfoliation of Layered Materials.

J. N. Coleman et al.

Layered transition metal dichalcogenides, such as tungsten disulfide, are

exfoliated into atomically thin flakes.

Protein Native-State Stabilization by Placing Aromatic Side Chains in N-Glycosylated Reverse Turns

E. K. Culyba et al.

Protein reverse turns that interact with a phenylalanine group allow stable introduction of glycan groups at asparagine residues.

575 Seasonal Erosion and Restoration of Mars' Northern Polar Dunes.

C. J. Hansen et al.

High-resolution images of Mars show active sand transport on northern polar dunes.

578 2500 Years of European Climate Variability and Human Susceptibility.

U. Büntgen et al.

Variability of central European temperature and precipitation shows correlations with some major historical changes.

Passive Origins of Stomatal Control in Vascular Plants.

T. J. Brodribb et al.

The transition from passive to active metabolic control of stomata and plant water balance occurred about 360 million years ago.

Translational Pausing Ensures Membrane Targeting and Cytoplasmic Splicing of XBP1*u* mRNA.

K. Yanagitani et al.

A peptide-mediated translational pause facilitates the unconventional splicing of a messenger RNA on the endoplasmic reticulum.

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Direct Evolution of a Protein Container.

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An engineered protein container protects its bacterial host by efficient and selective encapsulation of a toxic protease.

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Aberrant Overexpression of Satellite Repeats in Pancreatic and Other Epithelial Cancers.

D. T. Ting et al.

Noncoding RNAs transcribed from DNA repeats in heterochromatin are expressed at surprisingly high levels in tumors.

A Cryptic Subgroup of *Anopheles Gambiae* Is Highly Susceptible to Human Malaria Parasites.

M. M. Riehle.

Collecting mosquito larvae from West African ponds has revealed a previously unknown but highly abundant genotype.

Action-Potential Modulation During Axonal Conduction.

T. Sasaki et al.

The waveform of an action potential can be physiologically modified while it travels along the axon.

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COVER

False-colored scanning electron micrograph of aligned zinc oxide nanowire arrays. Nanowires, each 10 to 50 nanometers in diameter and 0.5 to 1 micrometers long, have a variety of potential applications from medical diagnostics to miniature electronics. The Gordon Research Conference on Cancer Nanotechnology will be held 17 to 22 July 2011 at Colby College in Waterville, Maine. See page 602 for the conference schedule and preliminary programs.

Image: Z. L. Wang, School of Materials Science and Engineering, Georgia Institute of Technology.