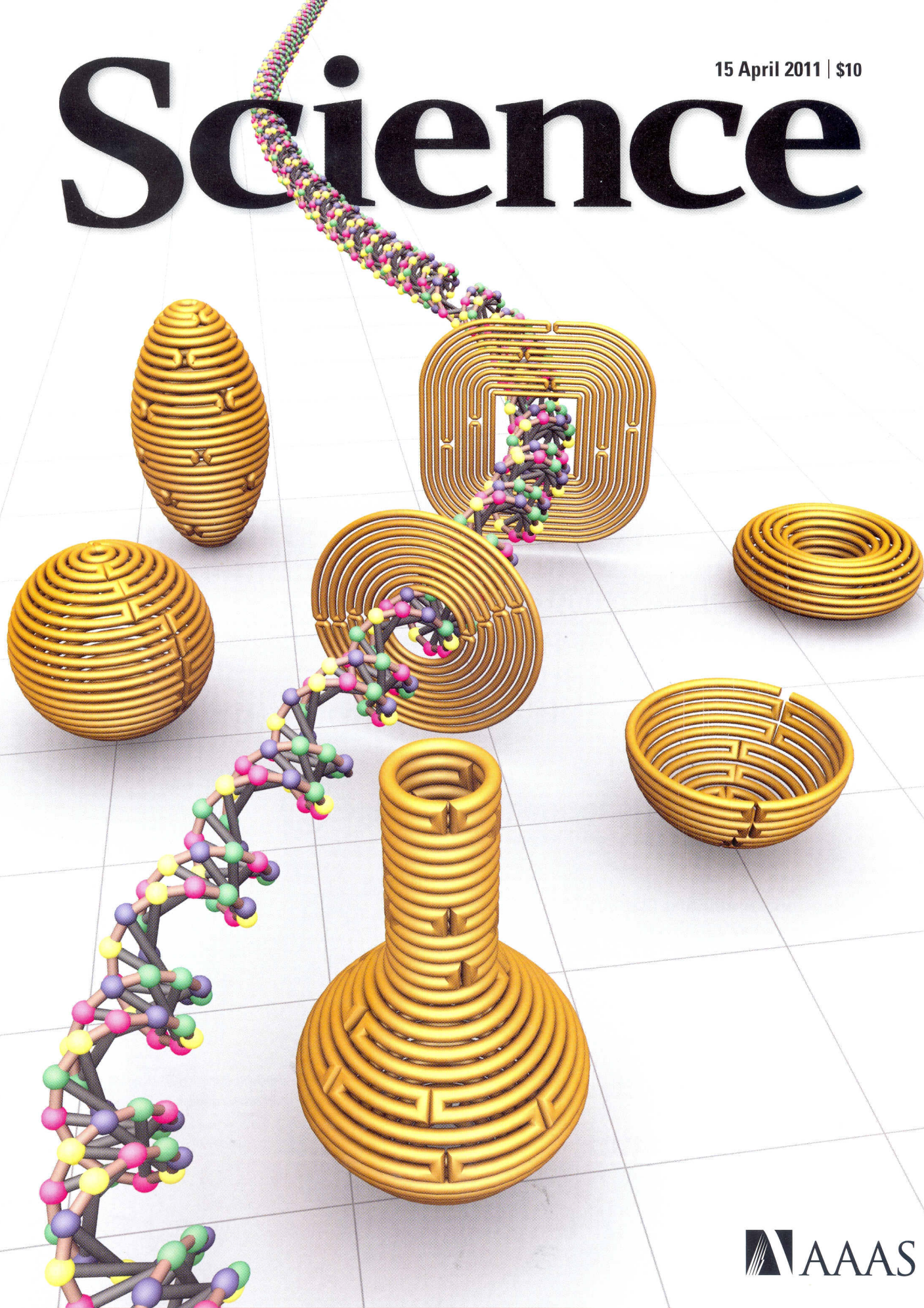


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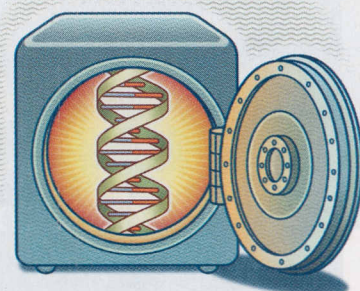
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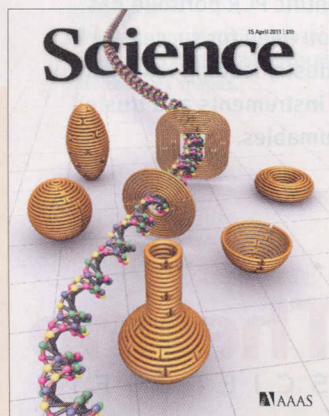
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COVER

Schematic representations of DNA nanostructures with complex curvatures including two-dimensional arrangements of concentric rings and three-dimensional shapes, including a nanoflask 70 nanometers tall and 40 nanometers wide (DNA molecule is not shown to scale). On page 342, Han *et al.* describe the creation of these structures using a DNA origami folding technique in which double-helical DNA is bent to follow the rounded contours of the target object.

Image: Dongran Han and Hao Yan, The Biodesign Institute and Department of Chemistry and Biochemistry, Arizona State University

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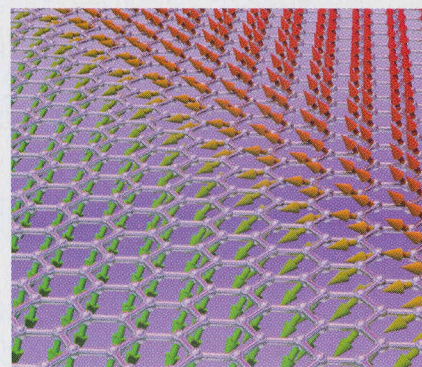
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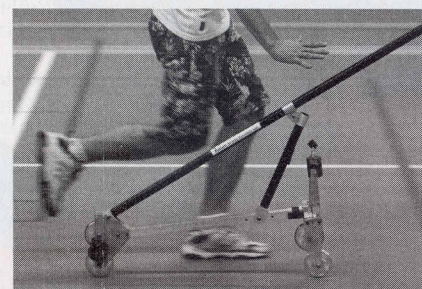
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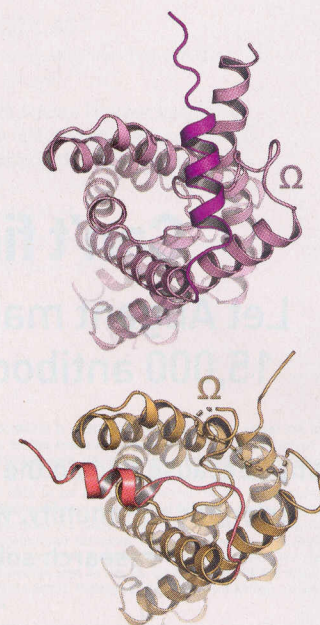
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Nocturnality in Dinosaurs Inferred from Scleral Ring and Orbit Morphology

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Comparison of eye structures between fossils and modern species suggests that Mesozoic archosaurs were active day and night.

10.1126/science.1200043

Industrial Melanism in British Peppered Moths Has a Singular and Recent Mutational Origin

A. E. van't Hof et al.

The locus responsible for the dark form of the peppered moth is identified.

10.1126/science.1203043

Chlorinated Indium Tin Oxide Electrodes with High Work Function for Organic Device Compatibility

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Closer matching of the energy levels of transparent electrodes and active materials in organic light-emitting diodes improves efficiency.

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10.1126/science.1202584

Ethical Framework for Biofuels

A. Buyx and J. Tait

10.1126/science.1206064

>> [Science Podcast](#)

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Highlights From Our Daily News Coverage

Melting Antarctic Ice Causing Penguins to Starve

As global warming kills off ice-loving krill, penguins may be losing food supply.

<http://scim.ag/ice-penguins>

How Distractions Cause 'Senior Moments'

A new study shows why the brains of older adults sometimes struggle to switch between tasks.

<http://scim.ag/senior-moments>

Double the Genes, Double the Flora

Ancient genome duplications fueled seed plant diversity.

<http://scim.ag/genes-flora>

SCENCESIGNALING

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The Signal Transduction Knowledge Environment

12 April issue: <http://scim.ag/ss041211>

RESEARCH ARTICLE: Estrogen Regulates Tumor Growth Through a Nonclassical Pathway that Includes the Transcription Factors ER β and KLF5

Y. Nakajima et al.

PERSPECTIVE: Estrogen Receptor β —Switching to a New Partner and Escaping from Estrogen

Y.-K. Leung and S.-M. Ho

ER β promotes apoptosis in prostate cancer cells through an estrogen-independent mechanism.

RESEARCH ARTICLE: PI3K β Plays a Critical Role in Neutrophil Activation by Immune Complexes

S. Kulkarni et al.

The β isoform of phosphoinositide 3-kinase may be an effective therapeutic target in inflammatory diseases.

GLOSSARY

Find out what c-Yes, Lyn, and R-Smad mean in the world of cell signaling.

SCIENCECAREERS

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Tooling Up: Two Choke Points

D. Jensen

When moving away from the bench and into industry, it is important to realize that there is not just one gaping chasm to cross, but two.

<http://scim.ag/chokepoints>

A Very Visual Scientist

S. Webb

Nickolay Hristov is building a career at the intersection of science and visual art.

http://scim.ag/hrstov_visual

Content Collection: Careers in Clinical and Translational Research

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Integrating Medicine and Science

13 April issue: <http://scim.ag/stm041311>

COMMENTARY: One Foundation's Strategy to Accelerate Drug Discovery Through Genomics

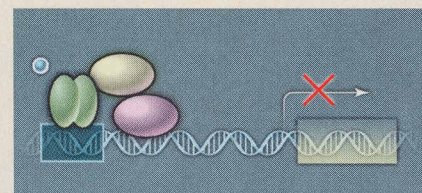
L. M. Perkins et al.

The founder of the Multiple Myeloma Research Foundation discusses ways to accelerate drug discovery for a rare disease.

PERSPECTIVE: Community Health Care—Therapeutic Opportunities in the Human Microbiome

J. L. Sonnenburg and M. A. Fischbach

The human microbiome harbors tremendous untapped therapeutic potential.



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Estrogen receptors in a prostate tumor.

RESEARCH ARTICLE: IL-25 Causes Apoptosis of IL-25R-Expressing Breast Cancer Cells Without Toxicity to Nonmalignant Cells

S. Furuta et al.

Mammary epithelial cells secrete an anticancer cytokine, suggesting a new therapeutic approach for breast cancer.

RESEARCH ARTICLE: Targeting Nrf2 Signaling Improves Bacterial Clearance by Alveolar Macrophages in Patients with COPD and in a Mouse Model

C. J. Harvey et al.

Lung macrophages take up bacteria better after stimulation of the Nrf2 antioxidant signaling pathway.

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On the 15 April *Science* Podcast: budgeting for science, an ethical framework for biofuels, re-exploring bicycle stability, and more.

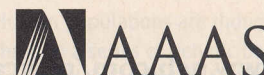
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Science Policy News and Analysis

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