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Breaking the Code of DNA Binding
Specificity of TAL-Type III Effectors
J. Boch et al.
Artificial effectors with new specificities have been constructed that mimic proteins injected into plant cells by pathogens.
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A Simple Cipher Governs DNA Recognition by TAL Effectors
M. J. Moscou and A. J. Bogdanove
Xanthomonas bacteria use an amino acid–based code to target effector molecules to specific DNA sequences.
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T. Becker et al.
A single copy of a protein-conducting channel molecule provides a conduit for polypeptide translocation across membranes.
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Induced Chromosomal Proximity and Gene Fusions in Prostate Cancer
R.-S. Mani et al.
Androgen signaling facilitates the formation of an oncogenic fusion gene in prostate cancer cells.
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RESEARCH ARTICLE: An Atypical CNG Channel Activated by a Single cGMP Molecule Controls Sperm Chemotaxis
W. Röning et al.
The ability of a single molecule of cGMP to activate the K+-selective cyclic nucleotide-gated channel allows sea urchin sperm to find an egg.

RESEARCH ARTICLE: Increased MKK4 Abundance with Replicative Senescence Is Linked to the Joint Reduction of Multiple microRNAs
B. S. Marasa et al.

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Several microRNAs jointly regulate the abundance of the kinase MKK4 during replicative senescence.

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PERSPECTIVE: P-REX2a Driving Tumorigenesis by PTEN Inhibition
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TEACHING RESOURCE: To Co-Author or Not to Co-Author—How to Write, Publish, and Negotiate Issues of Authorship with Undergraduate Research Students
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The rewards associated with publishing with undergraduate students outweigh the challenges.

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S. Webb
With the right support, it is possible to succeed in science after a family-related hiatus.

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COMMENTARY: Radical Reform Proposal for U.S. Healthcare
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The integration of clinical research with clinical care is central to improving public health.

RESEARCH ARTICLE: Functional Repair of Human Donor Lungs by IL-10 Gene Therapy
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PERSPECTIVE: Waiting to Exhale—Hope for Lung Transplant Recipients
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Local induction of IL-10 promotes recovery of function in human lung explants deemed not suitable for transplantation.

RESEARCH ARTICLE: Special Immune Cells Create Destructive Environment in Emphysemic Lungs
M. Shan et al.
An autoimmune reaction created by immune cells in the lungs of patients with emphysema drives lung destruction.

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