False-colored scanning electron micrograph of a zebrafish (Danio rerio) embryo (~0.7 millimeters across) at a late stage of development. Biophysical studies of model organisms such as zebrafish reveal forces that organize tissue patterns and shape cell layers and physical features (segments, cavities, and folds). The special section beginning on page 209 presents work in which physicists and biologists collaborate to explain the physical mechanisms of animal development.

Image: Dr. Richard Kessel/Visuals Unlimited, Inc.
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H. Chennaiou, Aoudjehane et al.
10.1126/science.1224514

Copy Number Variation of Multiple Genes at Rhg2 Mediates Nematode Resistance in Soybean
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Financial Costs of Meeting Global Biodiversity Conservation Targets: Current Spending and Unmet Needs
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Comment: B. L. Weber et al.
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A surprise discovery defies theory, and the same stellar nest may have even more black holes.
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RESEARCH ARTICLE: Interferon-Induced SCYL2 Limits Release of HIV-1 by Triggering PP2A-Mediated Dephosphorylation of the Viral Protein Vpu
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RESEARCH ARTICLE: Human Neural Stem Cells Induce Functional Myelination in Mice with Severe Dysmyelination
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Human neural stem cell transplants restore myelination in mice with a hypomyelination disorder.

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RESEARCH ARTICLE: Immunotherapy Against HPV16/18 Generates Potent T,1 and Cytotoxic Cellular Immune Responses
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CD8+ T cells with cytolytic activity are induced after therapeutic HPV vaccination in humans.

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PERSPECTIVE: Next-Generation Treatments for Mental Disorders
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