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Charles Darwin, a few years after his Beagle voyage. Science’s celebration of his 200th birthday and the 150th anniversary of
the publication of On the Origin of Species begins with a Review
by Bowler (p. 223) and an Essay on the origins of life (p. 198),
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Editorial (p. 185) for additional features and upcoming content.

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Universal Theory of Nonlinear Luttinger Liquids
A. Imambekov and L. I. Glazman
A theory of one-dimensional quantum liquids is generalized from linear interactions among particles to nonlinear ones, affecting, for example, predicted tunneling dynamics.

Direct Measurement of Molecular Mobility in Actively Deformed Polymer Glasses
H.-N. Lee et al.
Optical bleaching of a dilute molecular probe shows that when a rubbery polymer begins to flow, polymer chains become more mobile than predicted from a classical model.

Suppression of Metallic Conductivity of Single-Walled Carbon Nanotubes by Cycloaddition Reactions
M. Kanungo et al.
Reacting carbon nanotubes with fluorinated olefins suppresses the conductivity of the metallic tubes without affecting semiconducting tubes.

Self-Organization of a Mesoscale Bristle into Ordered, Hierarchical Helical Assemblies
B. Pokroy et al.
Evaporating an organic liquid from the tips of polymer pillars can induce them to form helical structures.

Historical Warnings of Future Food Insecurity with Unprecedented Seasonal Heat
D. S. Battisti and R. L. Naylor
By analogy with past examples, higher growing season temperatures and extreme heat will cause major disruptions to global agriculture.

Foraminiferal Isotope Evidence of Reduced Nitrogen Fixation in the Ice Age Atlantic Ocean
H. Ren et al.
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Drosophila Stem Cells Share a Common Requirement for the Histone H2B Ubiquitin Protease Scrwanny
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The Aryl Hydrocarbon Nuclear Translocator Alters CD30-Mediated NF-κB–Dependent Transcription
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Signals from a cancer-associated receptor that activate a key pathway in the immune system are modulated by its binding to a stress-responsive transcription factor.

HDAC4 Regulates Neuronal Survival in Normal and Diseased Retinas
B. Chen and C. L. Cepko
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Genetic Code Supports Targeted Insertion of Two Amino Acids by One Codon
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Structure of a Type IV Secretion System Core Complex
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AMPylation of Rho GTPases by Vibrio VopS Disrupts Effector Binding and Downstream Signaling
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A GI-active pathogen destroys intestinal cells, in part by improperly modifying a host signaling protein, causing loss of cell shape and contributing to cell death.

Simpson’s Paradox in a Synthetic Microbial System
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