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Spectra of a planetary nebula’s central star reveal a companion star responsible for launching the system’s rotating jets.

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A chemical reaction in a thin polymer film imposes orientational ordering of lamellar domains in an underlying film.

779 Driving a Macroscopic Oscillator with the Stochastic Motion of a Hydrogen Molecule
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783 Discovery of an Organic Trefoil Knot
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Hydrophobic interactions appear to steer three molecular fragments into a knot, rather than a simpler ring geometry.

785 Tissint Martian Meteorite: A Fresh Look at the Interior, Surface, and Atmosphere of Mars
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788 Development and Disintegration of Maya Political Systems in Response to Climate Change
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795 Coagulation Factor X Activates Innate Immunity to Human Species C Adenovirus
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802 Bateman in Nature: Predation on Offspring Reduces the Potential for Sexual Selection
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804 Corals Chemically Cue Mutualistic Fishes to Remove Competing Seaweeds
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807 A Core Metabolic Enzyme Mediates Resistance to Phosphine Gas
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Mutations in a lipoic acid metabolism enzyme confer resistance to phosphine but also result in sensitivity to arsenite.

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Shining light onto an engineered fluorescent protein controls the activity of domains fused to the protein.

815 Intramitochondrial Transport of Phosphatidic Acid in Yeast by a Lipid Transfer Protein
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A lipid transfer protein, Ups1, controls the accumulation of cardiolipin in mitochondrial outer and inner membranes.

818 IRE1α Cleaves Select microRNAs During ER Stress to Derepress Translation of Proapoptotic Caspase-2
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822 Mitochondrial Network Size Scaling in Budding Yeast
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Comment and Response on “Glacial Survival of Boreal Trees in Northern Scandinavia”
Comment: H. H. Birk et al.
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Response: L. Parducci et al.
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M. H. Lewis et al.
The debate about retention of dried blood samples from newborns should include their value to biomedical research.

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A collaborative effort to build human organs-on-a-chip tested in animals.

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K. S. Thorneoe et al.
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PKD1 in the nucleus drives oncogenesis in mice and correlates with human prostate tumor grade.

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