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COVER
Stylized comparison of the inner solar system (top) and Kepler-62 (bottom), a five-planet system about 1200 light-years away. Like our solar system, Kepler-62 hosts two planets in its habitable zone (depicted in green), the region around a star where a planet could conceivably maintain liquid water on its surface. The special section beginning on page 565 summarizes what we currently know about extrasolar planets.

Illustration: NASA/Jet Propulsion Laboratory–Caltech/T. Pyle

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Published by AAAS
Self-Assembling Cages from Coiled-Coil Peptide Modules
J. M. Fletcher et al.
Hexagonal networks form from heterodimERIC and homotrimeric coiled coils and create ~100-nanometer-diameter cages.

>> Perspective p. 561

Amplifying Genetic Logic Gates
J. Bonnet et al.
A genetic circuit architecture resembling a transistor can be engineered into individual live cells.

>> Perspective p. 554

Controlled Flight of a Biologically Inspired, Insect-Scale Robot
K. Y. Ma et al.
A fly-scale, flapping-wing robot has been fabricated and can be controlled to perform unconstrained flight maneuvers.

3D Reconstruction of the Source and Scale of Buried Young Flood Channels on Mars
G. A. Morgan et al.
Radar data taken from orbit reveal the complex morphology of buried flood channels in a young region of Mars.

Structural Basis for Molecular Recognition of Glioma Cells
D. Rohle et al.
A homeodomain protein limits expression of IDH1 enzyme in tumors slows malignant growth by inducing cancer cell differentiation.

Disparate Individual Fates Compose Robust CD8+ T Cell Immunity
V. R. Buchholz et al.
The single-cell dynamics as cytotoxic T cells respond to a bacterial infection are analyzed in mice.

Neural Decoding of Visual Imagery During Sleep
T. Horikawa et al.
Learning-machine models can predict specific visual dream contents from brain activity measurement alone.
Science 340 (6132), 523-643.