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COVER
Human colon cancer (at lower center) identified by a colored barium x-ray shown overlaid with a representation of a genetic sequence. Genome sequence analysis of human tumors has uncovered an array of genetic alterations that help drive tumor growth—information that may lead to more effective cancer therapies. See the special section beginning on page 1539.

Image: Mehau Kulyk/Science Source

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Published by AAAS
1590 Tuning Selectivity in Propylene Epoxidation by Plasmon Mediated Photo-Switching of Cu Oxidation State
A. Marimuthu et al.
Two catalysts working in tandem form carbon-carbon bonds at a conventionally unreactive site.

Observations of ionospheric perturbations after a solar burst hit Earth show how a patch of ionization formed and evolved.

1600 Structure of the Integral Membrane Protein CAAX Protease Ste24p
E. E. Pryor Jr. et al.

1604 The Structural Basis of ZMPSTE24-Dependent Laminopathies A. Quigley et al.
Structures of two transmembrane zinc proteases reveal a barrel of seven helices surrounding a large cavity.

1608 Wild Pollinators Enhance Fruit Set of Crops Regardless of Honey Bee Abundance
L. A. Garibaldi et al.
Flower visits by wild insects enhanced fruit production in crops worldwide, well beyond the effect of bees.

1611 Plant-Pollinator Interactions over 120 Years: Loss of Species, Co-Occurrence, and Function
L. A. Burkle et al.

1615 Roots and Associated Fungi Drive Long-Term Carbon Sequestration in Boreal Forest
K. E. Clemmensen et al.
Reservoirs of carbon in boreal forest soils are revisited on an island chronosequence, using modeling and molecular approaches.

1618 The Biological Underpinnings of Namib Desert Fairy Circles
J. Lafaurie-Janvore et al.
When a daughter cell lets go, the mother cell cuts it loose.

1621 (R)-2-Hydroxyglutarate Is Sufficient to Promote Leukemogenesis and Its Effects Are Reversible
J. A. Losman et al.
A metabolite specific to certain cancers, and of therapeutic interest, exists in two forms, only one of which is oncogenic.

1625 ESCRT-III Assembly and Cytokinetic Abscission Are Induced by Tension Release in the Intercellular Bridge
J. Lafaurie-Janvore et al.
When a daughter cell lets go, the mother cell cuts it loose.