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ON THE WEB THIS WEEK
>> Science Podcast
Listen to stories on DNA and disasters, new immunological weapons against HIV, Voyager’s latest exit, and more.
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Structural model showing the electron density surface of immunoglobulin G, a major antibody subtype. The human immune system generates a diversity of these Y-shaped antibodies that recognize foreign molecules and directly neutralize the targeted invaders or tag them for destruction. Antibodies that bind one or more specific targets are being harnessed in the treatment of disease and are informing vaccine design. See page 1191.

Image: Alfred Pasieka/Science Source
RESEARCH ARTICLE
1229 Quantifying the Influence of Climate on Human Conflict
S. M. Hsiang et al.
Across disciplinary boundaries, recently published evidence links climate change to increased violent conflict.
>> Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1235367

REPORTS
1212 Slow Earthquakes, Preseismic Velocity Organotextile Catalysis
B. M. Kaproth and C. Marone
Slip-stick experiments reveal the evolution of frictional behavior during slow earthquakes.

1219 Changes, and the Origin of Slow Frictional Stick-Slip
B. M. Kaproth and C. Marone
Slip-stick experiments reveal the evolution of frictional behavior during slow earthquakes.

1225 Channelized Ice Melting in the Ocean Boundary Layer Beneath Pine Island Glacier, Antarctica
T. P. Stanton et al.
A complex pattern of channelized melting exists on the underside of the ice shelf of Pine Island Glacier in Antarctica.

1229 Marine Taxa Track Local Climate Velocities
M. L. Pinsky et al.
Variation in species’ responses to climate change can be explained by differences in the local rates of climate change.

1233 HONO Emissions from Soil Bacteria as a Major Source of Atmospheric Reactive Nitrogen
R. Oswald et al.
Nitrous acid emissions from soil are comparable to those of nitric oxide in arid and arable regions.

1236 Noncanonical Inflammasome Activation by Intracellular LPS Independent of TLR4
N. Kayagaki et al.
Cytoplasmic LPS activates caspase-11: Implications in TLR4-independent endotoxic shock.

1243 The Molecular Trigger for High-Speed Wing Beats in a Bee
H. Iwamoto and N. Yagi
High-speed x-ray imaging of bee flight muscle reveals that stretch-activated myosin deformation drives high-frequency wing beats.

1246 Interacting Gears Synchronize Propulsive Leg Movements in a Jumping Insect
M. Burrows and G. Sutton
Functional gears are involved in the ballistic jumping movements of the flightless planthopper insect, Issus.