RESEARCH ARTICLES

1542 Dynamic Topography Change of the Eastern United States Since 3 Million Years Ago
D. B. Rowley et al.
Mantle flow has deformed the presumed passive eastern margin of North America by up to 60 meters during the past 5 million years.

1544 Varied Response of Western Pacific Hydrology to Climate Forcing over the Last Glacial Period
S. A. Carolin et al.
Stalagmites from Borneo show how the climate of the western equatorial Pacific region changed over the past 100,000 years.

1545 Continuous Permeability Measurements of Permeability Inside a Fault Zone
L. Xue et al.
Measurements of permeability inside a fault zone after a major earthquake reveal rapid healing of fractures.

1546 Elongation Factor G Bound to the Ribosome in an Intermediate State of Translocation
D. S. Tournay et al.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1235490

1547 Crystal Structures of EF-G–Ribosome Complexes Trapped in Intermediate States of Translocation
J. Zhou et al.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1236086

1548 Control of Ribosomal Subunit Rotation by Elongation Factor G
A. Pulk and J. H. D. Cate
Crystal structures reveal how messenger RNA and transfer RNAs transition through the prokaryotic ribosome during translation. Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1235970

1549 Dinitrogen Cleavage and Hydrogenation by a Trinuclear Titanium Polyhydride Complex
T. Shima et al.
The collective reactivity of three hydride-bridged titanium centers cleaves dinitrogen under mild conditions.

1550 Varied Response of Western Pacific Hydrology to Climate Forcing over the Last Glacial Period
S. A. Carolin et al.
Stalagmites from Borneo show how the climate of the western equatorial Pacific region changed over the past 100,000 years.

1551 Fe-S Cluster Biosynthesis Controls Uptake of Aminoglycosides in a ROS-Less Death Pathway
J. Ma et al.
The respiratory chain is required for antibiotic entry to the target cell rather than for its killing.

1552 Temperature Drives the Continental-Scale Distribution of Key Microbes in Topsoil Communities
F. Garcia-Pichel et al.
Climate change is likely to shift the distribution of key cyanobacteria species in desert soils.

1553 Intrinsically Disordered Protein Threads Through the Bacterial Outer-Membrane Porin OmpF
N. G. Hausden et al.
An antibacterial peptide can tunnel through cell-surface pores to deliver an epitope signal and initiate cell death.

1554 Mechanism of Eukaryotic RNA Polymerase III Transcription Termination
S. Nielsen et al.
Formation of the secondary structure of the transcribed RNA facilitates termination during transcription.

1555 Mechanism of Eukaryotic RNA Polymerase III Transcription Termination
S. Nielsen et al.
Formation of the secondary structure of the transcribed RNA facilitates termination during transcription.

1557 Transcription Under Torsion
J. M. Ma et al.
RNA polymerase is a potent DNA-based torsional motor than can restart transcription after release of DNA supercoiling stress.

1558 Continuous Permeability Measurements
Record Healing Inside the Wenchuan Earthquake Fault Zone
L. Xue et al.
Measurements of permeability inside a fault zone after a major earthquake reveal rapid healing of fractures.

1559 Temperature Drives the Continental-Scale Distribution of Key Microbes in Topsoil Communities
F. Garcia-Pichel et al.
Climate change is likely to shift the distribution of key cyanobacteria species in desert soils.

1560 Dynamic Topography Change of the Eastern United States Since 3 Million Years Ago
D. B. Rowley et al.
Mantle flow has deformed the presumed passive eastern margin of North America by up to 60 meters during the past 5 million years.

1561 Varied Response of Western Pacific Hydrology to Climate Forcing over the Last Glacial Period
S. A. Carolin et al.
Stalagmites from Borneo show how the climate of the western equatorial Pacific region changed over the past 100,000 years.

1562 Continuous Permeability Measurements
Record Healing Inside the Wenchuan Earthquake Fault Zone
L. Xue et al.
Measurements of permeability inside a fault zone after a major earthquake reveal rapid healing of fractures.

1563 Fe-S Cluster Biosynthesis Controls Uptake of Aminoglycosides in a ROS-Less Death Pathway
J. Ma et al.
The respiratory chain is required for antibiotic entry to the target cell rather than for its killing.