MINIREVIEWS
From the thematic series on proteolytic enzymes: The 26 S Proteasome: From Basic Mechanisms to Drug Targeting
Authors: Ami Navon and Aaron Ciechanover

Regulation of Cellular Protein Phosphatase-1 (PP1) by Phosphorylation of the CPI-17 Family, C-kinase-activated PP1 Inhibitors
Author: Masumi Eto

REFLECTIONS
From the \( \gamma \)-Glutamyl Cycle to the Glycan Cycle: A Road with Many Turns and Pleasant Surprises
Naoyuki Taniguchi

From Molecular Biology to Geology: A Surprising Trajectory
John Abelson

CLASSIC ARTICLES
A Model for Protein Turnover
The work of Robert T. Sauer

The Discovery of Z-DNA
The work of Alexander Rich

F1000 ARTICLES
Check out JBC papers reviewed by members of the Faculty of 1000 Medicine and Biology.

PAPERS OF THE WEEK
Domain Motion in Cytochrome P450 Reductase. Conformational Equilibria Revealed by NMR and Small-angle X-ray Scattering
Author profile: Zi-Zhen Wu

Aminopyridines Potentiate Synaptic and Neuromuscular Transmission by Targeting the Voltage-activated Calcium Channel \( b \) Subunit
Author profile: Jeng-Haur Chen

Direct Sensing of Intracellular pH by the Cystic Fibrosis Transmembrane Conductance Regulator Cl- Channel
Author profile: Jonathan M. Crane

Sunday Driver Interacts with Two Distinct Classes of Axonal Organelles
Author profile: Namiko Abe

Global Analysis of Transcriptional Regulation by Poly(ADP-ribose) Polymerase-1 and Poly(ADP-ribos) Glycohydrolase in MCF-7 Human Breast Cancer Cells
Author profile: Kristine Frizzell

Fibril Fragmentation Enhances Amyloid Cytotoxicity
Author profile: Wei-Feng Xue

JOURNAL STATS
Quick look at 2009 article citations
These were the most-cited 2009 articles as of November. The full report will be available soon.

Cited 10 times: An ATP-competitive Mammalian Target of Rapamycin Inhibitor Reveals Rapamycin-resistant Functions of mTORC1 (Mechanisms of signal transduction)

Cited 10 times: Acyl-CoA: Lysophospholipid Acyltransferases (Minireview)

Cited 8 times: A Cytosolic Homomerization and a Modulatory Domain within STIM1 C Terminus Determine Coupling to ORAI1 Channels (Mechanisms of signal transduction)

Cited 7 times: Polymerase Dynamics at the Eukaryotic DNA Replication Fork (Minireview)

Cited 6 times: Amyloid \( \beta \)-Protein Assembly and Alzheimer Disease (Minireview)

INNOVATIONS
New electronic letter to the editor posted
The Dec. 4 issue of the JBC contained a letter to the editor and a response from the authors of “A Novel Endoplasmic Reticulum Export Signal: Proline at the +2-Position from the Signal Peptide Cleavage Site” in the Oct. 2 issue.

Non-Latin characters made their debut
On Dec. 25, JBC published its first paper using non-Latin characters to identify authors. See the PDF.

EDITORIAL GUIDELINES
JBC unveils new mission statement, calls for papers
JBC’s new mission statement (at right) communicates what Deputy Editor Robert B. Simoni has termed “a modest course adjustment” in the journal’s editorial guidelines. It emphasizes that the journal’s editors interpret “mechanism” to mean “the molecular process through which biological processes are carried out.”

To find out more:
Read Simoni’s article in ASBMB Today or the official JBC editorial.

See how the Table of Contents will be affected on Page 2.

THE JOURNAL OF BIOLOGICAL CHEMISTRY publishes papers based on original research that make novel and important contributions to understanding the molecular and cellular basis of biological processes.”
JBC IN THE NEWS
Edwin Krebs, 91, former EBM, AE

We regret to report the passing of Edwin G. Krebs, winner of the 1992 Nobel Prize for first describing the process of reversible protein phosphorylation. Krebs died at age 91 on Dec. 21 of complications from heart failure. Read the Seattle Times obituary.

A cancer drug from wild mushrooms

The BBC was one of many media outlets that reported last month on a JBC paper about cordycepin, which was first discovered in a wild parasitic mushroom that grows on caterpillars.

Read more JBC in the News.

ON THE WEB
JBC’s new podcast: plant biochemistry

JBC Associate Editor James Siedow interviews author Ludger Beerhues about metabolic engineering in plants and a single-point mutation.

BENCHPRESS
Please enter new expertise terms

Don’t forget to update your expertise terms in the new BenchPress manuscript-tracking system. It will take about 15 minutes of your time. For BenchPress support or suggestions, please contact Jeanne Gladfelter at jgladfelter@asbmb.org.

ASBMB
It’s time to make your travel plans

The next editorial board meeting will be April 24. For new EBMs with terms starting in July 2010, JBC covers travel expenses, two-night hotel stays and ground incidentals. It covers two-night hotel stays and incidentals for existing EBMs. Lodging details.