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Papers

Genome-wide analysis of human HSF1 signaling reveals a transcriptional program linked to cellular adaptation and survival

Todd J. Page, Devanjan Sikder, Longlong Yang, Linda Pluta, Russell D. Wolfinger, Thomas Kodadek and Russell S. Thomas

Fluorescent reagents for *in vitro* studies of lipid-linked steps of bacterial peptidoglycan biosynthesis: derivatives of UDPMurNAc-pentapeptide containing D-cysteine at position 4 or 5

James A. Schouten, Sangeev Bagga, Adrian J. Lloyd, Gianfranco de Pascale, Christopher G. Dowson, David I. Roper and Timothy D. H. Bugg

Rational design of homogenous protein kinase assay platforms that allow both fluorometric and colorimetric signal readouts

K. Tomizaki and H. Mihara

Method

A GFP-based assay for monitoring posttranscriptional regulation of ARE-mRNA turnover

D. Benjamin, M. Colombi and C. Moroni

Highlight

Recent developments in the mechanistic enzymology of the ATP-dependent Lon protease from *Escherichia coli*: highlights from kinetic studies

Irene Lee, Anthony J. Berdis and Carolyn K. Suzuki

Opinion

Commercial potential of RNAi

K. K. Jain

Review

Structure, Function, and Regulation of STAT Proteins

C.P. Lim and X. Cao

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Feature article

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Xiang Li and Dan Yang

Communications

Highly sensitive and selective near-infrared fluorescent probe for zinc and its application to macrophage cells

Bo Tang, Hui Huang, Kehua Xu, Lili Tong, Guiwen Yang, Xia Liu and Ligu An

On-bead screening of a library to detect host–guest complexation by an aniline reporter

Miwa Kubo, Ryosuke Nishimoto, Masanori Doi, Mitsuaki Kodama and Hideaki Hioki

Selection of DNA ligands for protein kinase C- δ

Prabodhika Mallikaratchy, Robert V. Stahelin, Zehui Cao, Wonhwa Cho and Weihong Tan

Photo-control of kinesin-microtubule motility using caged peptides derived from the kinesin C-terminus domain

Akiko Nomura, Taro Q. P. Uyeda, Noboru Yumoto and Yoshiro Tatsu

Ratiometric fluorescence detection of a tag fused protein using the dual-emission artificial molecular probe

Kei Honda, Eiji Nakata, Akio Ojida and Itaru Hamachi

Wrapping single-walled carbon nanotubes with long single-stranded DNA molecules produced by rolling circle amplification

Weian Zhao, Yan Gao, Michael A. Brook and Yingfu Li

A high-throughput screening assay for hydroxynitrile lyase activity

Jennifer Andexer, Jan-Karl Guterl, Martina Pohl and Thorsten Eggert