

VOL. 144 NO. 6 DEC. 2008

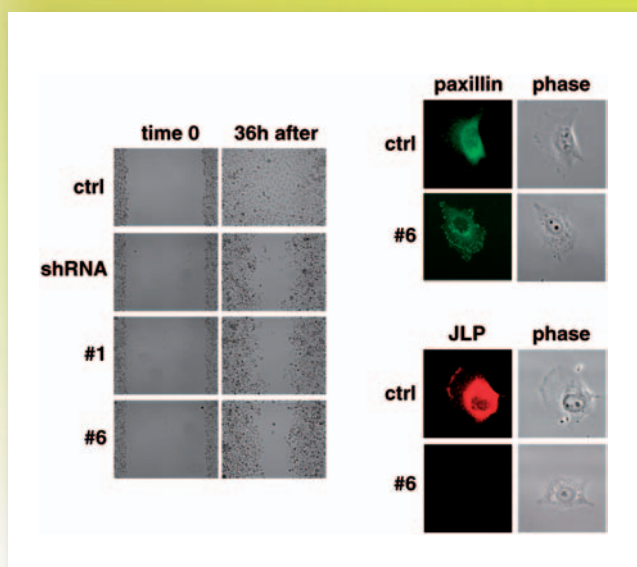
JOBIAO 144 (6) 693–798 (2008)

THE JOURNAL OF BIOCHEMISTRY

JB

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Subscription

Annual subscription rate (Volume 143 and Volume 144, 2008)

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- RNA Processing
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Extracellular Matrices and Cell Adhesion Molecules
Cell Cycle
Receptors and Signal Transduction
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Cell Death
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Neurobiology
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RNA Technology
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COVER: Scaffold proteins for MAP kinase (MAPK) cascades organize the MAPK signaling components into functional modules, thereby enabling the efficient activation of specific MAPK pathways. Leucine zipper protein (JLP) has been identified as a scaffold protein for the JNK and p38 MAPK signaling modules. To date, however, the physiological functions of JLP remain poorly understood. RNAi-mediated loss-of-function study of JLP showed a defect of cell migration in JLP-depleted HeLa cells. In addition, a portion of the JLP protein in cells was found to be localized at the leading edge, and JLP knockdown resulted in increases in the number and size of paxillin-positive adhesions. These results suggest that JLP plays a key role in cell migration. *Left*, The control HeLa cells, the pooled JLP knockdown cells, and clones #1 and #6 stably expressing JLP-shRNA were analyzed by wound-healing assay. *Right*, The control cells and clone #6 were immunostained for paxillin (*green*) and JLP (*red*). [See Davaakhuu Gantulga *et al.*, p. 693]

The JB Prize

The Japanese Biochemical Society has introduced the JB Prize since 1993 for the purpose of encouraging the author(s) to submit more papers to the Journal of Biochemistry. The JB prize is awarded annually to the outstanding papers appeared in the issues of the journal published during the preceding one year from January through December. The prize-winning papers are selected from candidate papers nominated by the Committee of the JB Editorial Board and applications of individual author(s), by the Award Committee, which is chosen by the Board of Trustees. The prize may be offered to several papers each with ¥100,000 every year, but the number will never exceed ten.

The 2008 JB Prize goes to:

Liang-Hao Lu, Ryusuke Nakagawa, Yumiko Kashio, Aiko Ito, Hiroki Shoji, Nozomu Nishi, Mitsuomi Hirashima, Akira Yamauchi, and Takanori Nakamura: Characterization of Galectin-9-Induced Death of Jurkat T Cells (Vol. 141, No. 2, 157–172)

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JB Minireviews—Functional Dynamics of the Nucleus

Packaging the Genome: the Structure of Mitotic Chromosomes

Kazuhiro Maeshima¹ and Mikhail Eltsov²

¹*Cellular Dynamics Laboratory, RIKEN, Wako, Saitama, Japan; and* ²*Laboratoire d'Analyse Ultrastructurale, Biophore, Université de Lausanne, Lausanne, Switzerland* (Vol. 143, No. 2, pp. 145–153)

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Laboratory for Genomic Reprogramming, Center for Developmental Biology, RIKEN-Kobe, Minatojima-minamimachi 2-2-3, Chuo-ku, Kobe city, 651-0047, Hyogo Japan (Vol. 143, No. 3, pp. 279–286)

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¹*Division of Gene Therapy Science, Osaka University Graduate School of Medicine, 2-2 Yamada-oka, Suita, Osaka 565-0871, Japan; and* ²*Department of Biology, Monmouth College, 700 East Broadway, Monmouth, IL 61462 USA* (Vol. 143, No. 3, pp. 287–293)

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¹*Department of Biological Chemistry, Graduate School of Pharmaceutical Sciences, Kyoto University, Kyoto 606-8501; and* ²*Department of Biological Chemistry, Human Health Science, Graduate School of Medicine, Kyoto University, Kyoto 606-8507, Japan* (Vol. 143, No. 6, pp. 719–724)

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¹Department of Biochemistry, Kobe Pharmaceutical University, Kobe 658-8558; and ²CREST, Japan Science and Technology Agency, Kawaguchi 332-0012, Japan (Vol. 144, No. 1, pp. 7–14)

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¹Department of Molecular Oncology, Division of Molecular and Cellular Biology, Institute on Aging and Adaptation, Shinshu University Graduate School of Medicine; and ²Core Research for Evolutional Science and Technology, Japan Science and Technology Agency, Japan (Vol. 144, No. 2, pp. 131–137)

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Research Center for Medical Glycoscience, National Institute of Advanced Industrial Science and Technology, AIST Central-2, 1-1-1, Umezono, Tsukuba, Ibaraki 305-8568, Japan (Vol. 144, No. 2, pp. 139–147)

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¹WPI Immunology Frontier Research Center; ²Research Institute for Microbial Diseases, Osaka University, Osaka, Japan; ³CREST; and ⁴PREST, Japan Society of Technology, Saitama, Japan (Vol. 144, No. 3, pp. 287–294)

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Messenger RNA Surveillance Systems Monitoring Proper Translation Termination

Nobuyoshi Akimitsu

Institute for Biological Resources and Functions, National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Higashi, Tsukuba-shi, Ibaraki 305-8566, Japan (Vol. 143, No. 1, pp. 1–8)

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FUKUI Kiyoshi	INAGAKI Masaki	KITAGAWA Yasuyuki
FURUKAWA Kiyoshi	INOUE Hideshi	KITAJIMA Shigetaka
GOTO Yuji	INOUE Satoshi	KIYONO Hiroshi
GRAEBER Peter	INOUE Kuniyo	KOBATAKE Eiry
GUERARDEL Yann	INUI Takashi	KOBAYASHI Kazuo
GUERRINI Marco	ISHIGAMI Akihito	KOBAYASHI Naoto
GUO RF	ISHII Shunsuke	KOBAYASHI Tetsuyuki
HAGA Tatsuya	ISHII Tetsuro	KOHN Kimitoshi
HAGIHARA Yoshihisa	ISHIMI Yukio	KOJIMA Masayasu

KOMADA Masayuki
KONAGAYA Akihiko
KONDO Hiroki
KONDO Naoyuki
KOSHIKAWA Naohiko
KRISTIE Thomas
KUDO Yasusei
KUDOU Motonori
KUMAZAKI Takashi
KURAMITSU Seiki
KURIHARA Tatsuo
KURITA Ryoji
KURODA Yutaka
KUROKI Ryota
KUROSE Hitoshi
LEGUIZAMON M. Susana
LIEBMANN Claus
LUPOLD Shawn
MA Wei
MAEDA Nobuaki
MAEDA Tatsuya
MAEHAMA Tomohiko
MAENAKA Katsumi
MAESHIMA Masayoshi
MAKABE Koki
MAKI Kosuke
MANO Shoji
MARKERT Udo
MARTINEZ CAAVEIRO Jose
 Jose Manuel
MARUYAMA Kei
MASAKI Haruhiko
MASSIDDA Orietta
MASUI Ryoji
MASUTANI Hiroshi
MATANO Tetsuro
MATOZAKI Takashi
MATSUDA Tomoko
MATSUFUJI Senya
MATSUI Yasuhisa
MATSUMURA Yasuhiro
MIHARA Hisaaki
MIHARA Hisakazu
MINAMI Yasuhiro
MISHIMA Masaki
MITRA Sankar
MIURA Retsu
MIYATA Yoshihiko
MIYAZAKI Makoto
MIYAZAWA Atsuo
MIYAZAWA Keiji
MIYAZONO Kohei
MIZOBATA Tomohiro
MIZUGUCHI Hiroyuki
MOTOJIMA Kiyoko

MOTOYAMA Noboru
MULLANEY Edward
MURAKAMI Makoto
NADANO Daita
NAGAI Ryoji
NAGAOKA Isao
NAGASE Hideaki
NAGASHIMA Kenji
NAGATA Koh-ichi
NAKAGAWA Atsushi
NAKAI Masato
NAKAMURA Kouji
NAKAMURA Nobuhumi
NAKANO Hiroyasu
NAKASHIMA Nobuhiko
NAKASHIRO Koichi
NAKATANI Yoshihito
NAKAYAMA Kazuhisa
NAKAYAMA Kenichi
NAKAYAMA Toru
NAMBA Keiichi
NANGAKU Masaomi
NASHIMOTO Masayuki
NATSUKA Shunji
NAWA Hiroyuki
NIKAWA Takeshi
NINOMIYA Yoshifumi
NISHI Yoshisuke
NISHIKAWA Satoshi
NISHINA Hiroshi
NISHITOH Hideki
NISHIYAMA Makoto
NODA Yasuo
NOGUCHI Satoru
OBINATA Masuo
OHARA Naoya
OHGIYA Satoru
OHKUBO Tadayasu
OHNISHI Satoshi
OHNO Hideki
OHSHIMA Hayato
OHSHIMA Toshihisa
OHTSUKI Takashi
OKAJIMA Toshihide
OKANO Yukio
OKUMURA Nobuaki
ONDA Maki
ONO Yasuko
OSTARECK Dirk
OSUMI Takashi
RAMAKRISHNAN Boopathy
RAO Mohan
RICHARD Stephane
SADA Kiyonao
SAGAMI Ikuko

SAITO Hideyuki
SAITOH Eiichi
SAKAI Norio
SAKAKIBARA Yoichi
SAKISAKA Toshiaki
SAMBONGI Yoshihiro
SANO Emiko
SASAKI Shigeki
SASAKI Takuya
SATO Takaya
SAWA Yoshihiro
SAWADA Hitoshi
SEHARA-FUJISAWA Atsuko
SEKIGUCHI Kiyotoshi
SEKIMIZU Kazuhisa
SENDA Toshiya
SHAI Yechiel
SHIBATA Nobuyuki
SHIMA Hiroshi
SHIMIZU Shigeomi
SHIMIZU Yoshihiro
SHIMOHIGASHI Yasuyuki
SHIMOMURA Iichirou
SHINDOH Masanobu
SHIRAKAWA Masahiro
SIDDIQUI Sohail
SORIMACHI Hiroyuki
SUDA Yasuo
SUGASAWA Kaoru
SUGIMOTO Yoshikazu
SUGIURA Takayuki
SUNAHARA Roger Ken
SUZUKI Akemi
SUZUKI Haruo
SUZUKI Kenji
SUZUKI Minoru
SUZUKI Nobuchika
SUZUKI Tadashi
SUZUKI Tsutomu
TACHIBANA Hideki
TADA Hiroko
TAGUCHI Hideki
TAHARA Hidetoshi
TAJIMA Shoji
TAKAHASHI Masakazu
TAKAHASHI Toru
TAKAHASHI Motoko
TAKANO Kazufumi
TAKEDA Kohsuke
TAKEHARA Kazuhiko
TAKETANI Shigeru
TAKEUCHI Yasuhiro
TAKUWA Yoh
TAMAI Ikumi
TAMURA Takashi

TANAKA Akiyoshi
TANAKA Kazuma
TANAKA Masato
TANAKA Shinji
TANAKA Terumichi
TANAKA Yoshikazu
TANASE Sumio
TANGUAY Robert
TANIGUCHI Yoshihiro
TATSUMI Hitoshi
TOGUCHIDA Junya
TOKINO Takashi
TOKUMURA Akira
TOMARI Yukihide
TOMITA Kozo
TORAYA Tetsuo
TORIGOE Hidetaka
TSUCHIDA Shigeki
TSUJI Tsutomu
TSUMOTO Kouhei
TSUMURAYA Yoichi
TSURIMOTO Toshiki
TSURUMI Tatsuya
UCHIDA Koji
UCHIDA Yoshikazu
UCHIUMI Toshio
UCHIYAMA Shunichi

UDAKA Keiko
UEDA Hiroshi
UEDA Natsuo
UEDA Tadashi
UEGAKI Koichi
UENO Hiroshi
UENO Masaharu
UMEKAGE So
UMETSU Mitsuo
UMEYAMA Hideaki
WACHI Masaaki
WADA Morimasa
WATABE Tetsuro
WATANABE Keiichi
WATANABE Toshio
WHITE Bruce A.
YAGI Takao
YAGI Toshiharu
YAGITA Kazuhiro
YAMADA Shuhei
YAMAGATA Kaoru
YAMAGATA Yuriko
YAMAGISHI Akihiko
YAMAGUCHI Akira
YAMAGUCHI Kei-ichi
YAMAGUCHI Yoshiki
YAMAMOTO Hiroshi

YAMAMOTO Kaori
YAMAMOTO Kazuo
YAMAMOTO Kenji
YAMAMOTO Kohji
YAMAOKA Shoji
YAMASHITA Katsuko
YAMASHITA Shoji
YAMAUCHI Toshimasa
YAMAZAKI Hiroshi
YANAGAWA Hiroshi
YANAGI Sigeru
YANAGISAWA Jun
YANO Tetsu
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YOKOGAWA Takashi
YOKO-O Takehiko
YOKOTA Kazushige
YOKOTE Koutaro
YONEZAWA Naoto
YOSHIDA Hideji
YOSHIDA Hiroshi
YOSHIMOTO Tadashi
YOSHIMURA Tohru
YOSHITAKE Jun
YUTANI Katsuhide
ZWIEB Christian
ZWIRNER Jörg