

MOLECULAR AND CELLULAR BIOLOGY

Volume 31

August 2011

No. 16

SPOTLIGHT

Articles of Significant Interest Selected from This Issue by
the Editors

3195

ARTICLES

**Posttranscriptional Control of Type I Interferon Genes by
KSRP in the Innate Immune Response against Viral
Infection**

Wei-Jye Lin, Xiaojia Zheng, Chen-
Chung Lin, Jun Tsao, Xiaolin Zhu,
James J. Cody, Jennifer M.
Coleman, Roberto Gherzi, Ming
Luo, Tim M. Townes, Jacqueline N.
Parker, and Ching-Yi Chen

3196–3207

**Complex Formation and Interactions between Transcription
Factors Essential for Human Prolactin Receptor Gene
Transcription**

Jung-Hoon Kang, Chon-Hwa Tsai-
Morris, and Maria L. Dufau

3208–3222

**LMO7 Mediates Cell-Specific Activation of the Rho-
Myocardin-Related Transcription Factor-Serum Response
Factor Pathway and Plays an Important Role in Breast
Cancer Cell Migration**

Qiande Hu, Chun Guo, Yali Li,
Bruce J. Aronow, and Jinsong
Zhang

3223–3240

**The BAR Domain Protein PICK1 Regulates Cell
Recognition and Morphogenesis by Interacting with Neph
Proteins**

Martin Höhne, Johannes
Lorscheider, Anna von Bardeleben,
Matthias Dufner, M. Antonia
Scharf, Markus Gödel, Martin
Helmstädter, Eva-Maria Schurek,
Sibylle Zank, Peter Gerke, Christine
Kurschat, Sema Hayriye Sivritas,
Elke Neumann-Haefelin, Tobias B.
Huber, H. Christian Reinhardt,
Astrid C. Schauss, Bernhard
Schermer, Karl-Friedrich Fischbach,
and Thomas Benzing

3241–3251

**Stochastic Receptor Expression Determines Cell Fate upon
Interferon Treatment**

Doron Levin, Daniel Harari, and
Gideon Schreiber

3252–3266

**The Glucocorticoid Receptor and the Coregulator Brm
Selectively Modulate Each Other's Occupancy and Activity
in a Gene-Specific Manner**

Karin B. Engel and Keith R.
Yamamoto

3267–3276

**Crbp1 Modulates Glucose Homeostasis and Pancreas 9-cis-
Retinoic Acid Concentrations**

Maureen A. Kane, Alexandra E.
Folias, Attilio Pingitore, Mariarita
Perri, Charles R. Krois, Joo Yeon
Ryu, Erika Cione, and Joseph L.
Napoli

3277–3285

**The Lysyl Oxidase Propeptide Interacts with the Receptor-
Type Protein Tyrosine Phosphatase Kappa and Inhibits β -
Catenin Transcriptional Activity in Lung Cancer Cells**

Nuria Sánchez-Morgan, Kathrin H.
Kirsch, Philip C. Trackman, and
Gail E. Sonenshein

3286–3297

**Nuclear Receptors TR2 and TR4 Recruit Multiple
Epigenetic Transcriptional Corepressors That Associate
Specifically with the Embryonic β -Type Globin Promoters in
Differentiated Adult Erythroid Cells**

Shuaiying Cui, Katarzyna E.
Kolodziej, Naoshi Obara, Alexandra
Amaral-Psarris, Jeroen Demmers,
Lihong Shi, James Douglas Engel,
Frank Grosveld, John Strouboulis,
and Osamu Tanabe

3298–3311

**The RPB2 Flap Loop of Human RNA Polymerase II Is
Dispensable for Transcription Initiation and Elongation**

Murali Palangat, Jeffrey A. Grass,
Marie-France Langelier, Benoit
Coulombe, and Robert Landick

3312–3325

Continued on following page

Severe Alterations of Cerebellar Cortical Development after Constitutive Activation of Wnt Signaling in Granule Neuron Precursors	Andreas Lorenz, Markus Deutschmann, Julia Ahlfeld, Catharina Prix, Arend Koch, Ron Smits, Riccardo Fodde, Hans A. Kretzschmar, and Ulrich Schüller	3326–3338
Hypoxia-Induced Epigenetic Regulation and Silencing of the <i>BRCAl</i> Promoter	Yuhong Lu, Adrian Chu, Mitchell S. Turker, and Peter M. Glazer	3339–3350
The Duplicated Deacetylases Sir2 and Hst1 Subfunctionalized by Acquiring Complementary Inactivating Mutations	Cara A. Froyd and Laura N. Rusche	3351–3365
Talin1 Regulates Integrin Turnover To Promote Embryonic Epithelial Morphogenesis	Jie Liu, Xiaowen He, Yanmei Qi, Xiaoxiang Tian, Susan J. Monkley, David R. Critchley, Siobhan A. Corbett, Stephen F. Lowry, Alan M. Graham, and Shaohua Li	3366–3377
The Defective Nuclear Lamina in Hutchinson-Gilford Progeria Syndrome Disrupts the Nucleocytoplasmic Ran Gradient and Inhibits Nuclear Localization of Ubc9	Joshua B. Kelley, Sutirtha Datta, Chelsi J. Snow, Mandovi Chatterjee, Li Ni, Adam Spencer, Chun-Song Yang, Caelin Cubeñas-Potts, Michael J. Matunis, and Bryce M. Paschal	3378–3395
Molecular Chaperone Hsp90 Regulates REV1-Mediated Mutagenesis	Franklin Mayca Pozo, Tsukasa Oda, Takayuki Sekimoto, Yoshiki Murakumo, Chikahide Masutani, Fumio Hanaoka, and Takayuki Yamashita	3396–3409
Identification of Heat Shock Factor 1 Molecular and Cellular Targets during Embryonic and Adult Female Meiosis	Florent Le Masson, Zak Razak, Mo Kaigo, Christophe Audouard, Colette Charry, Howard Cooke, J. Timothy Westwood, and Elisabeth S. Christians	3410–3423
PINCH Proteins Regulate Cardiac Contractility by Modulating Integrin-Linked Kinase–Protein Kinase B Signaling	Benjamin Meder, Inken G. Huttner, Farbod Sedaghat-Hamedani, Steffen Just, Tillman Dahme, Karen S. Frese, Britta Vogel, Doreen Köhler, Wanda Kloos, Jessica Rudloff, Sabine Marquart, Hugo A. Katus, and Wolfgang Rottbauer	3424–3435
A Small, Glutamine-Free Domain Propagates the [SWT⁺] Prion in Budding Yeast	Emily T. Crow, Zhiqiang Du, and Liming Li	3436–3444
c-Abl-Mediated Tyrosine Phosphorylation of the T-bet DNA-Binding Domain Regulates CD4⁺ T-Cell Differentiation and Allergic Lung Inflammation	An Chen, Sang-Myeong Lee, Beixue Gao, Stephen Shannon, Zhou Zhu, and Deyu Fang	3445–3456
Cdc25A Regulates Matrix Metalloprotease 1 through Foxo1 and Mediates Metastasis of Breast Cancer Cells	Xiaoling Feng, Zhaojia Wu, Yongsheng Wu, William Hankey, Thomas W. Prior, Lei Li, Ramesh K. Ganju, Rulong Shen, and Xianghong Zou	3457–3471
Prevention of Transcriptional Silencing by a Replicator-Binding Complex Consisting of SWI/SNF, MeCP1, and hnRNP C1/C2	Liang Huang, Haiqing Fu, Chii Mei Lin, Amy L. Conner, Ya Zhang, and Mirit I. Aladjem	3472–3484
Histone Occupancy <i>In Vivo</i> at the 601 Nucleosome Binding Element Is Determined by Transcriptional History	Roberto Perales, Lian Zhang, and David Bentley	3485–3496

Continued from preceding page

The Ras Inhibitors Caveolin-1 and Docking Protein 1 Activate Peroxisome Proliferator-Activated Receptor γ through Spatial Relocalization at Helix 7 of Its Ligand-Binding Domain

Elke Burgermeister, Teresa Friedrich, Ivana Hitkova, Ivonne Regel, Henrik Einwächter, Wolfgang Zimmermann, Christoph Röcken, Aurel Perren, Matthew B. Wright, Roland M. Schmid, Rony Seger, and Matthias P. A. Ebert

3497–3510

Downloaded from <http://mcb.asm.org/> on June 24, 2019 by guest

Cover photograph (Copyright © 2011, American Society for Microbiology. All Rights Reserved.): *Drosophila* eye imaginal disc upon knockdown of PICK1 and an eye (with a rough eye phenotype) of an adult *Drosophila* of the same genotype. (See related article on p. 3241.)