

Research

- 1875 **Integrated Analysis of Quantitative Proteome and Transcriptional Profiles Reveals the Dynamic Function of Maternally Expressed Proteins After Parthenogenetic Activation of Buffalo Oocyte**
[S] *Fumei Chen, Qiang Fu, Liping Pu, Pengfei Zhang, Yulin Huang, Zhen Hou, Zhuangzhuang Xu, Dongrong Chen, Fengling Huang, Tingxian Deng, Xianwei Liang, Yangqing Lu, and Ming Zhang*
- 1892 **A System-wide Approach to Monitor Responses to Synergistic BRAF and EGFR Inhibition in Colorectal Cancer Cells**
[S] *Anna Ressa, Evert Bosdriesz, Joep de Ligt, Sara Mainardi, Gianluca Maddalo, Anirudh Prahallad, Myrthe Jager, Lisanne de la Fonteijne, Martin Fitzpatrick, Stijn Groten, A. F. Maarten Altelaar, René Bernards, Edwin Cuppen, Lodewyk Wessels, and Albert J. R. Heck*
- 1909 **Influenza A Virus Induces Autophagosomal Targeting of Ribosomal Proteins**
[S] ✎ *Andrea C. Becker, Monique Gannagé, Sebastian Giese, Zehan Hu, Shadi Abou-Eid, Carole Roubaty, Petra Paul, Lea Bühler, Christine Gretzmeier, Veronica I. Dumit, Stéphanie Kaeser-Pebernard, Martin Schwemmler, Christian Münz, and Jörn Dengjel*
- 1922 **Global Involvement of Lysine Crotonylation in Protein Modification and Transcription Regulation in Rice**
[S] *Shuai Liu, Chao Xue, Yuan Fang, Gang Chen, Xiaojun Peng, Yong Zhou, Chen Chen, Guanqing Liu, Minghong Gu, Kai Wang, Wenli Zhang, Yufeng Wu, and Zhiyun Gong*
- 1937 **Proteomic Delineation of the ArcA Regulon in *Salmonella* Typhimurium During Anaerobiosis**
[S] *Zhen Wang, Jingjing Sun, Tingying Xia, Yanhua Liu, Jiaqi Fu, Yat Kei Lo, Cheng Chang, Aixin Yan, and Xiaoyun Liu*
- 1948 **The Impact of Oncogenic EGFRvIII on the Proteome of Extracellular Vesicles Released from Glioblastoma Cells**
[S] *Dongsic Choi, Laura Montermini, Dae-Kyum Kim, Brian Meehan, Frederick P. Roth, and Janusz Rak*
- 1965 **Comparison of Nuclear Matrix and Mitotic Chromosome Scaffold Proteins in *Drosophila* S2 Cells—Transmission of Hallmarks of Nuclear Organization Through Mitosis**
[S] *Rahul Sureka, Rashi Wadhwa, Suman S. Thakur, Rashmi U. Pathak, and Rakesh K. Mishra*
- 1979 **Proteomic Analysis of NCK1/2 Adaptors Uncovers Paralog-specific Interactions That Reveal a New Role for NCK2 in Cell Abcission During Cytokinesis**
[S] *Kévin Jacquet, Sara L. Banerjee, François J. M. Chartier, Sabine Elowe, and Nicolas Bisson*
- 1991 **Proteomic Profiling of Microtubule Self-organization in M-phase**
[S] *Miquel Rosas-Salvans, Tommaso Cavazza, Guadalupe Espadas, Eduard Sabido, and Isabelle Vernos*
- 2005 **Decreased NAD Activates STAT3 and Integrin Pathways to Drive Epithelial-Mesenchymal Transition**
[S] *Weixuan Wang, Yadong Hu, Changmei Yang, Songbiao Zhu, Xiaofei Wang, Zhenyu Zhang, and Haiteng Deng*

On the Cover: Confocal image of daughter cells that are undergoing cytokinesis to complete cell division. Fluorescence labeling shows the actin (red) as well as tubulin (green) cytoskeletons and highlights the last point of contact before abscission, the midbody. NCK1/2 adaptor protein interaction networks were defined via AP-MS and BioID proximity labeling. Their comparison revealed a specific role for NCK2 in cell abscission during cytokinesis. For details, see the article by Jacquet *et al.*, pages 1979–1990.

- 2018 **Histone Interaction Landscapes Visualized by Crosslinking Mass Spectrometry in Intact Cell Nuclei**
[S] *Domenico Fasci, Hugo van Ingen, Richard A. Scheltema, and Albert J. R. Heck*
- 2034 **Reactive Metabolite-induced Protein Glutathionylation: A Potentially Novel Mechanism Underlying Acetaminophen Hepatotoxicity**
[S] *James Chun Yip Chan, Alex Cheow Khoon Soh, Dorinda Yan Qin Kioh, Jianguo Li, Chandra Verma, Siew Kwan Koh, Roger Wilmer Beuerman, Lei Zhou, and Eric Chun Yong Chan*

Technological Innovation and Resources

- 2051 **A Novel Differential Ion Mobility Device Expands the Depth of Proteome Coverage and the Sensitivity of Multiplex Proteomic Measurements**
[S] *Sibylle Pfammatter, Eric Bonneil, Francis P. McManus, Satendra Prasad, Derek J. Bailey, Michael Belford, Jean-Jacques Dunyach, and Pierre Thibault*
- 2068 **Universal Plant Phosphoproteomics Workflow and Its Application to Tomato Signaling in Response to Cold Stress**
[S] *Chuan-Chih Hsu, Yingfang Zhu, Justine V. Arrington, Juan Sebastian Paez, Pengcheng Wang, Peipei Zhu, I-Hsuan Chen, Jian-Kang Zhu, and W. Andy Tao*

Additions and Corrections

- 2081 **Correction: Quantitative proteomics of strong and weak biofilm formers of *Enterococcus faecalis* reveals novel regulators of biofilm formation.**
Tanujaa Suriyanarayanan, Lin Qingsong, Lim Teck Kwang, Lee Yew Mun, Thuyen Truong, and Chaminda Jayampath Seneviratne

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