

Research

- 836 **Global Analyses of Selective Insulin Resistance in Hepatocytes Caused by Palmitate Lipotoxicity**
[S] *Zhihuan Li, Zon Weng Lai, Romain Christiano, Felipe Gazos-Lopes, Tobias C. Walther, and Robert V. Farese, Jr.*
- 850 **Protein Tyrosine Phosphatase Receptor Type G (PTPRG) Controls Fibroblast Growth Factor Receptor (FGFR) 1 Activity and Influences Sensitivity to FGFR Kinase Inhibitors**
[S] *Michal Kostas, Ellen Margrethe Haugsten, Yan Zhen, Vigdis Sørensen, Patrycja Szybowska, Elisa Fiorito, Susanne Lorenz, Nina Jones, Gustavo Antonio de Souza, Antoni Wiedlocha, and Jørgen Wesche*
- 871 **Global Identification of Small Ubiquitin-related Modifier (SUMO) Substrates Reveals Cross-talk between SUMOylation and Phosphorylation Promotes Cell Migration**
[S] ✎ *Ijeoma Uzoma, Jianfei Hu, Eric Cox, Shuli Xia, Jianying Zhou, Hee-Sool Rho, Catherine Guzzo, Corry Paul, Olutobi Ajala, C. Rory Goodwin, Junseop Jeong, Cedric Moore, Hui Zhang, Pamela Meluh, Seth Blackshaw, Michael Matunis, Jiang Qian, and Heng Zhu*
- 889 **Sulfenylation of Human Liver and Kidney Microsomal Cytochromes P450 and Other Drug-Metabolizing Enzymes as a Response to Redox Alteration**
[S] *Matthew E. Albertolle, Thanh T. N. Phan, Ambra Pozzi, and F. Peter Guengerich*
- 901 **The Ewing Sarcoma Secretome and Its Response to Activation of Wnt/beta-catenin Signaling**
[S] *Allegra G. Hawkins, Venkatesha Basrur, Felipe da Veiga Leprevost, Elisabeth Pedersen, Colin Sperring, Alexey I. Nesvizhskii, and Elizabeth R. Lawlor*
- 913 **Nonlinear Regression Improves Accuracy of Characterization of Multiplexed Mass Spectrometric Assays**
[S] *Cyril Galitzine, Jarrett D. Egertson, Susan Abbatiello, Clark M. Henderson, Lindsay K. Pino, Michael MacCoss, Andrew N. Hoofnagle, and Olga Vitek*
- 925 **Phosphoproteomics Analysis Identifies Novel Candidate Substrates of the Nonreceptor Tyrosine Kinase, Src-related Kinase Lacking C-terminal Regulatory Tyrosine and N-terminal Myristoylation Sites (SRMS)**
[S] *Raghuvveera Kumar Goel, Marta Paczkowska, Jüri Reimand, Scott Napper, and Kiven Erique Lukong*
- 948 **Proteomic Analysis of Urothelium of Rats with Detrusor Overactivity Induced by Bladder Outlet Obstruction**
[S] *Edmond Changkyun Park, Jae Sung Lim, Seung Il Kim, Sang-Yeop Lee, Yu-Kyung Tak, Chi-Won Choi, Sungho Yun, Joohyun Park, Minji Lee, Hyo Kyun Chung, Koon Soon Kim, Yong Gil Na, Ju Hyun Shin, and Gun-Hwa Kim*

On the Cover: Two Step Co-immunoprecipitation strategy (TIP) was developed to obtain an highly enriched protein complex purification. Bait protein is bound by a biotinylated antibody with anti biotin beads. The complex, released by free biotin, can be recaptured with different approaches. TIP can be used for several applications and enables protein discovery. For details see the article by Maria Rita Sciuto, *et al*, pages 993-1009.

961 **Proteome Data Improves Protein Function Prediction in the Interactome of *Helicobacter pylori***
[S] *Stefan Wuchty, Stefan A. Müller, J. Harry Caulfield, Roman Häuser, Patrick Aloy, Stefan Kalkhof, and Peter Uetz*

974 **Peptide Level Turnover Measurements Enable the Study of Proteoform Dynamics**
[S] *Jana Zecha, Chen Meng, Daniel Paul Zolg, Patroklos Samaras, Mathias Wilhelm, and Bernhard Kuster*

Technological Innovation and Resources

993 **Two-Step Coimmunoprecipitation (TIP) Enables Efficient and Highly Selective Isolation of Native Protein Complexes**
[S] *Maria Rita Sciuto, Uwe Warnken, Martina Schnölzer, Cecilia Valvo, Lidia Brunetto, Alessandra Boe, Mauro Biffoni, Peter H. Krammer, Ruggero De Maria, and Tobias L. Haas*

1010 **Establishment of Dimethyl Labeling-based Quantitative Acetylproteomics in Arabidopsis**
[S] *Shichang Liu, Fengchao Yu, Zhu Yang, Tingliang Wang, Hairong Xiong, Caren Chang, Weichuan Yu, and Ning Li*

1028 **Defeating Major Contaminants in Fe³⁺-Immobilized Metal Ion Affinity Chromatography (IMAC) Phosphopeptide Enrichment**
[S] *Clement M. Potel, Miao-Hsia Lin, Albert J. R. Heck, and Simone Lemeer*

1035 **Comprehensive Redox Profiling of the Thiol Proteome of *Clostridium difficile***
[S] *Susanne Sievers, Silvia Dittmann, Tim Jordt, Andreas Otto, Falko Hochgräfe, and Katharina Riedel*

Addition and Correction

835 **Privileged incorporation of selenium as selenocysteine in *Lactobacillus reuteri* proteins demonstrated by selenium-specific imaging and proteomics**
Eugenio Galano, Erika Mangiapane, Juliusz Bianga, Angelo Palmese, Enrica Pessione, Joanna Szpunar, Ryszard Lobinski, and Angela Amoresano

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