

Research

- 1457 **Antigen Analysis of Pre-Eclamptic Plasma Antibodies Using *Escherichia Coli* Proteome Chips**
[S] *Te-Yao Hsu, Jyun-Mu Lin, Mai-Huong T. Nguyen, Feng-Hsiang Chung, Ching-Chang Tsai, Hsin-Hsin Cheng, Yun-Ju Lai, Hsuan-Ning Hung, and Chien-Sheng Chen*
- 1470 **Identification of Novel Response and Predictive Biomarkers to Hsp90 Inhibitors Through Proteomic Profiling of Patient-derived Prostate Tumor Explants**
Elizabeth V. Nguyen, Margaret M. Centenera, Max Moldovan, Rajdeep Das, Swati Irani, Andrew D. Vincent, Howard Chan, Lisa G. Horvath, David J. Lynn, Roger J. Daly, and Lisa M. Butler
- 1487 **Click Chemistry-mediated Biotinylation Reveals a Function for the Protease BACE1 in Modulating the Neuronal Surface Glycoproteome**
[S] *Julia Herber, Jasenka Njavro, Regina Feederle, Ute Schepers, Ulrike C. Müller, Stefan Bräse, Stephan A. Müller, and Stefan F. Lichtenthaler*
- 1502 **CTGF/VEGFA-activated Fibroblasts Promote Tumor Migration Through Micro-environmental Modulation**
[S] *Wei Wu, Esther A. Zaal, Celia R. Berkers, Simone Lemeer, and Albert J. R. Heck*
- 1515 **Credentialing Individual Samples for Proteogenomic Analysis**
[S] *Wei Zhao, Jun Li, Rehan Akbani, Han Liang, and Gordon B. Mills*
- 1531 **Butyrate Suppresses the Proliferation of Colorectal Cancer Cells via Targeting Pyruvate Kinase M2 and Metabolic Reprogramming**
[S] *Qingran Li, Lijuan Cao, Yang Tian, Pei Zhang, Chujie Ding, Wenjie Lu, Chenxi Jia, Chang Shao, Wenyue Liu, Dong Wang, Hui Ye, and Haiping Hao*
- 1546 **Multiplex Quantification Identifies Novel Exercise-regulated Myokines/Cytokines in Plasma and in Glycolytic and Oxidative Skeletal Muscle**
[S] *Hannah C. Little, Stefanie Y. Tan, Francesca M. Cali, Susana Rodriguez, Xia Lei, Andrew Wolfe, Christopher Hug, and G. William Wong*
- 1564 **Allele-specific Alterations in the Peptidome Underlie the Joint Association of HLA-A29:02 and Endoplasmic Reticulum Aminopeptidase 2 (ERAP2) with Birdshot Chorioretinopathy**
[S] *Alejandro Sanz-Bravo, Adrian Martín-Esteban, Jonas J. W. Kuiper, Marina García-Peydró, Eilon Barnea, Arie Admon, and José A. López de Castro*
- 1578 **Deep Sequencing of Complex Proteoglycans: A Novel Strategy for High Coverage and Site-specific Identification of Glycosaminoglycan-linked Peptides**
[S] *Joshua A. Klein, Le Meng, and Joseph Zaia*
- 1591 **Quantitative Proteome and Phosphoproteome Analyses of *Streptomyces coelicolor* Reveal Proteins and Phosphoproteins Modulating Differentiation and Secondary Metabolism**
[S] *Beatriz Rioseras, Pavel V. Shliaha, Vladimir Gorshkov, Paula Yagüe, María T. López-García, Nathaly Gonzalez-Quironez, Sergey Kovalchuk, Adelina Rogowska-Wrzesinska, Ole N. Jensen, and Angel Mantea*

On the Cover: Workflow of *Streptomyces coelicolor* phosphoproteome analysis. Samples were collected at the vegetative stage (M1) and two stages of the antibiotic-producing mycelium (MII); labeled with TMT-10-plex; processed for proteomics and phosphoproteomics; the phosphoproteome was normalized against the change in the proteome. Most of the phosphorylated peptides were highly up-regulated at the MII hyphae. For details, see the article by Rioseras *et al.*, pages 1591–1611.

- 1612 **Lysosomal Proteome and Secretome Analysis Identifies Missorted Enzymes and Their Nondegraded Substrates in Mucopolidosis III Mouse Cells**
[S] *Giorgia Di Lorenzo, Renata Voltolini Velho, Dominic Winter, Melanie Thelen, Shiva Ahmadi, Michaela Schweizer, Raffaella De Pace, Kerstin Cornils, Timur Alexander Yorgan, Saskia Grüb, Irm Hermans-Borgmeyer, Thorsten Schinke, Sven Müller-Loennies, Thomas Braulke, and Sandra Pohl*
- 1627 **Rapid Remodeling of the Host Epithelial Cell Proteome by the Listeriolysin O (LLO) Pore-forming Toxin**
[S] * *Julien Karim Malet, Francis Impens, Filipe Carvalho, Mélanie Anne Hamon, Pascale Cossart, and David Ribet*

Technological Innovation and Resources

- 1637 **Remote Atmospheric Pressure Infrared Matrix-Assisted Laser Desorption-Ionization Mass Spectrometry (Remote IR-MALDI MS) of Proteins**
[S] *Benoit Fatou, Michael Ziskind, Philippe Saudemont, Jusal Quanico, Cristian Focsa, Michel Salzet, and Isabelle Fournier*

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