

Research

- 1188 **Proteomic Signature of Acute Liver Failure: From Discovery and Verification in a Pig Model to Confirmation in Humans**
[S] *Jie Wang, Zeyu Sun, Jing Jiang, Daxian Wu, Xiaoli Liu, Zhongyang Xie, Ermei Chen, Danhua Zhu, Chao Ye, Xiaoqian Zhang, Wenqian Chen, Hongcui Cao, and Lanjuan Li*
- 1200 **Quantitative Phospho-proteomic Analysis of TNF α /NF κ B Signaling Reveals a Role for RIPK1 Phosphorylation in Suppressing Necrotic Cell Death**
[S] *Firaz Mohideen, Joao A. Paulo, Alban Ordureau, Steve P. Gygi, and J. Wade Harper*
- 1217 **Lowering Endogenous Cathepsin D Abundance Results in Reactive Oxygen Species Accumulation and Cell Senescence**
[S] *Siyuan Su, Xu Zhu, Liang Lin, Xianwei Chen, Yang Wang, Jin Zi, Yusheng Dong, Yingying Xie, Yinghui Zhu, Ju Zhang, Jianhui Zhu, Dan Xu, Ningzhi Xu, Xiaomin Lou, and Siqi Liu*
- 1233 **Validation, Identification, and Biological Consequences of the Site-specific O-GlcNAcylation Dynamics of Carbohydrate-responsive Element-binding Protein (ChREBP)**
[S] *An-Qi Yang, Daoyuan Li, Lianli Chi, and Xin-Shan Ye*
- 1244 **Serological Epithelial Component Proteins Identify Intestinal Complications in Crohn's Disease**
[S] *Yunki Y. Yau, Rupert W. L. Leong, Aviv Pudipeddi, Diane Redmond, and Valerie C. Wasinger*
- 1258 **Translating Divergent Environmental Stresses into a Common Proteome Response through the Histidine Kinase 33 (Hik33) in a Model Cyanobacterium**
[S] *Haitao Ge, Longfa Fang, Xiahe Huang, Jinlong Wang, Weiyang Chen, Ye Liu, Yuanya Zhang, Xiaorong Wang, Wu Xu, Qingfang He, and Yingchun Wang*
- 1297 **Lysine Acetylome Analysis Reveals Photosystem II Manganese-stabilizing Protein Acetylation is Involved in Negative Regulation of Oxygen Evolution in Model Cyanobacterium *Synechococcus* sp. PCC 7002**
[S] *Zhuo Chen, Guiying Zhang, Mingkun Yang, Tao Li, Feng Ge, and Jindong Zhao*
- 1324 **The Landscape of Histone Modifications in a High-Fat Diet-Induced Obese (DIO) Mouse Model**
[S] *Litong Nie, Lin Shuai, Mingrui Zhu, Ping Liu, Zhi-Fu Xie, Shangwen Jiang, Hao-Wen Jiang, Jia Li, Yingming Zhao, Jing-Ya Li, and Minjia Tan*
- 1348 **Some Gram-negative Lipoproteins Keep Their Surface Topology When Transplanted from One Species to Another and Deliver Foreign Polypeptides to the Bacterial Surface**
[S] \otimes *Laura Fantappiè, Carmela Irene, Micaela De Santis, Alessandro Armini, Assunta Gagliardi, Michele Tomasi, Matteo Parri, Valeria Cafardi, Serena Bonomi, Luisa Ganfini, Francesca Zerbini, Ilaria Zanella, Chiara Carnemolla, Luca Bini, Alberto Grandi, and Guido Grandi*

On the cover: Dried blood spots provide for simple, inexpensive collection and storage of blood. We used proximity extension assays to quantify 92 proteins in 1.2 mm disks from dried blood spots. The minimal effects on protein levels by drying and long-term storage demonstrate the suitability of these samples for biobanking and routine care. For details see the article by Johan Björkstén, *et al*, pages 1286–1296.

- 1365 **Phosphoproteome Analysis Reveals Differential Mode of Action of Sorafenib in Wildtype and Mutated FLT3 Acute Myeloid Leukemia (AML) Cells**
 [S] ☞ *Catrin Roof, Nikolaj Dybowski, Anett Sekora, Stefan Mueller, Gudrun Knuebel, Andreas Tebbe, Hugo Murua Escobar, Klaus Godl, Christian Junghanss, and Christoph Schaab*
- 1377 **Hyper-phosphorylation of Sequestosome-1 Distinguishes Resistance to Cisplatin in Patient Derived High Grade Serous Ovarian Cancer Cells**
 [S] *Elizabeth V. Nguyen, Kaisa Huhtinen, Young Ah Goo, Katja Kaipio, Noora Andersson, Ville Rantanen, Johanna Hynninen, Riitta Lahesmaa, Olli Carpen, and David R. Goodlett*

Technological Innovation and Resources

- 1173 **Systematic Evaluation of Protein Reduction and Alkylation Reveals Massive Unspecific Side Effects by Iodine-containing Reagents**
 [S] *Torsten Müller and Dominic Winter*
- 1275 **The mzIdentML Data Standard Version 1.2, Supporting Advances in Proteome Informatics**
 [S] ☞ *Juan Antonio Vizcaíno, Gerhard Mayer, Simon Perkins, Harald Barsnes, Marc Vaudel, Yasset Perez-Riverol, Tobias Ternent, Julian Uszkoreit, Martin Eisenacher, Lutz Fischer, Juri Rappsilber, Eugen Netz, Mathias Walzer, Oliver Kohlbacher, Alexander Leitner, Robert J. Chalkley, Fawaz Ghali, Salvador Martínez-Bartolomé, Eric W. Deutsch, and Andrew R. Jones*
- 1286 **Stability of Proteins in Dried Blood Spot Biobanks**
 [S] ☞ *Johan Björkesten, Stefan Enroth, Qiujiu Shen, Lotta Wik, David M. Hougaard, Arie S. Cohen, Lene Sörensen, Vilmantas Giedraitis, Martin Ingelsson, Anders Larsson, Masood Kamali-Moghaddam, and Ulf Landegren*
- 1312 **Prediction of Response to Sorafenib in Hepatocellular Carcinoma: A Putative Marker Panel by Multiple Reaction Monitoring-Mass Spectrometry (MRM-MS)**
 [S] *Hyunsoo Kim, Su Jong Yu, Injun Yeo, Young Youn Cho, Dong Hyeon Lee, Yuri Cho, Eun Ju Cho, Jeong-Hoon Lee, Yoon Jun Kim, Sungyoung Lee, Jongsoo Jun, Taesung Park, Jung-Hwan Yoon, and Youngsoo Kim*
- 1335 **MSstatsQC: Longitudinal System Suitability Monitoring and Quality Control for Targeted Proteomic Experiments**
 [S] *Eralp Dogu, Sara Mohammad-Taeheri, Susan E. Abbatiello, Michael S. Bereman, Brendan MacLean, Birgit Schilling, and Olga Vitek*

AUTHOR INDEX

- Abbatiello, Susan E., 1335
Ah Goo, Young, 1377
Andersson, Noora, 1377
Armini, Alessandro, 1348
- Barsnes, Harald, 1275
Bereman, Michael S., 1335
Bini, Luca, 1348
Björkesten, Johan, 1286
Bonomi, Serena, 1348
- Cafardi, Valeria, 1348
Cao, Hongcui, 1188
Carnemolla, Chiara, 1348
Carpen, Olli, 1377
Chalkley, Robert J., 1275
Chen, Ermei, 1188
Chen, Weiyang, 1258
Chen, Wenqian, 1188
Chen, Xianwei, 1217
Chen, Zhuo, 1297
Chi, Lianli, 1233
Cho, Yuri, 1312
Cohen, Arie S., 1286
- De Santis, Micaela, 1348
Deutsch, Eric W., 1275
Dogu, Eralp, 1335
Dong, Jianyi, M116.065474
Dong, Yusheng, 1217
Dybowski, Nikolaj, 1365
- Eisenacher, Martin, 1275
Enroth, Stefan, 1286
- Fang, Longfa, 1258
Fantappiè, Laura, 1348
Fischer, Lutz, 1275
- Gagliardi, Assunta, 1348
Ganfini, Luisa, 1348
Ge, Feng, 1297
Ge, Haitao, 1258
Ghali, Fawaz, 1275
Giedraitis, Vilmantas, 1286
Godl, Klaus, 1365
Goodlett, David R., 1377
Grandi, Alberto, 1348
Grandi, Guido, 1348
Gygi, Steve P., 1200
- Harper, J. Wade, 1200
He, Qingfang, 1258
Hougaard, David M., 1286
Huang, Xiahe, 1258
- Huhtinen, Kaisa, 1377
Hyeon Lee, Dong, 1312
Hynninen, Johanna, 1377
- Ingelsson, Martin, 1286
Irene, Carmela, 1348
- Jiang, Hao-Wen, 1324
Jiang, Jing, 1188
Jiang, Shangwen, 1324
Jones, Andrew R., 1275
Jong Yu, Su, 1312
Ju Cho, Eun, 1312
Jun, Jongsoo, 1312
Jun Kim, Yoon, 1312
Junghanss, Christian, 1365
- Kaipio, Katja, 1377
Kim, Hyunsoo, 1312
Kim, Youngsoo, 1312
Kamali-Moghaddam, Masood, 1286
Knuebel, Gudrun, 1365
Kohlbacher, Oliver, 1275
- Lahesmaa, Riitta, 1377
Landegren, Ulf, 1286
Larsson, Anders, 1286
Lee, Jeong-Hoon, 1312
Lee, Sungyoung, 1312
Leitner, Alexander, 1275
Leong, Rupert W.L., 1244
Li, Daoyuan, 1233
Li, Jia, 1324
Li, Jing-Ya, 1324
Li, Juan, M116.065474
Li, Lanjuan, 1188
Li, Tao, 1297
Lin, Liang, 1217
Liu, Ping, 1324
Liu, Siqi, 1217
Liu, Xiaoli, 1188
Liu, Ye, 1258
Lou, Xiaomin, 1217
- MacLean, Brendan, 1335
Martínez-Bartolomé, Salvador, 1275
Mayer, Gerhard, 1275
Mohammad-Taheri, Sara, 1335
Mohideen, Firaz, 1200
Mueller, Stefan, 1365
Müller, Torsten, 1173
Murua Escobar, Hugo, 1365

Netz, Eugen, 1275
Nguyen, Elizabeth, 1377
Nie, Litong, 1324

Ordureau, Alban, 1200

Park, Taesung, 1312
Parri, Matteo, 1348
Paulo, Joao A., 1200
Perez-Riverol, Yasset, 1275
Perkins, Simon, 1275
Pudipeddi, Aviv, 1244

Rantanen, Ville, 1377
Rappsilber, Juri, 1275
Redmond, Diane, 1244
Roof, Catrin, 1365

Sörensen, Lene, 1286
Schaab, Christoph, 1365
Schilling, Birgit, 1335
Sekora, Anett, 1365
Shen, Qiujin, 1286
Shuai, Lin, 1324
Su, Siyuan, 1217
Sun, Zeyu, 1188

Tan, Minjia, 1324
Tebbe, Andreas, 1365
Ternent, Tobias, 1275
Tomasi, Michele, 1348

Uszkoreit, Julian, 1275

Vaudel, Marc, 1275
Vitek, Olga, 1335
Vizcaíno, Juan Antonio, 1275

Walzer, Mathias, 1275
Wang, Jie, 1188

Wang, Jinlong, 1258
Wang, Xiaorong, 1258
Wang, Yang, 1217
Wang, Yingchun, 1258
Wasinger, Valerie C., 1244
Wik, Lotta, 1286
Winter, Dominic, 1173
Wu, Daxian, 1188

Xie, Yingying, 1217
Xie, Zhi-Fu, 1324
Xie, Zhongyang, 1188
Xu, Dan, 1217
Xu, Ningzhi, 1217
Xu, Wu, 1258

Yang, An-Qi, 1233
Yang, Mingkun, 1297
Yau, Yunki Y., 1244
Ye, Chao, 1188
Ye, Xin-Shan, 1233
Yeo, Injun, 1312
Yoon, Jung-Hwan, 1312
Youn Cho, Young, 1312

Zanella, Ilaria, 1348
Zerbini, Francesca, 1348
Zhang, Guiying, 1297
Zhang, Ju, 1217
Zhang, Xiaoqian, 1188
Zhang, Yuanya, 1258
Zhao, Jindong, 1297
Zhao, Yingming, 1324
Zhu, Danhua, 1188
Zhu, Jianhui, 1217
Zhu, Mingrui, 1324
Zhu, Xu, 1217
Zhu, Yinghui, 1217
Zi, Jin, 1217