

Research

- 1036 **Virulence Factors Produced by *Staphylococcus aureus* Biofilms Have a Moonlighting Function Contributing to Biofilm Integrity**
[S] *Alexander C. Graf, Anne Leonard, Manuel Schäuble, Lisa M. Rieckmann, Juliane Hoyer, Sandra Maass, Michael Lalk, Dörte Becher, Jan Pané-Farré, and Katharina Riedel*
- 1054 **Quantification of Dynamic Protein Interactions and Phosphorylation in LPS Signaling Pathway by SWATH-MS**
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- 1070 **Integrated Analyses of Phenotype and Quantitative Proteome of CMTM4 Deficient Mice Reveal Its Association with Male Fertility**
[S] *FuJun Liu, XueXia Liu, Xin Liu, Ting Li, Peng Zhu, ZhengYang Liu, Hui Xue, WenJuan Wang, XiuLan Yang, Juan Liu, and WenLing Han*
- 1085 **A Combined N-terminomics and Shotgun Proteomics Approach to Investigate the Responses of Human Cells to Rapamycin and Zinc at the Mitochondrial Level**
[S] *Joanna Bons, Charlotte Macron, Catherine Aude-Garcia, Sebastian Alvaro Vaca-Jacome, Magali Rompais, Sarah Cianféroni, Christine Carapito, and Thierry Rabilloud*
- 1096 **Quantitative Proteomics Links the Intermediate Filament Nestin to Resistance to Targeted BRAF Inhibition in Melanoma Cells**
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- 1110 **Comprehensive Analysis of Individual Variation in the Urinary Proteome Revealed Significant Gender Differences**
[S] *Chen Shao, Mindi Zhao, Xizhao Chen, Haidan Sun, Yehong Yang, Xiaoping Xiao, Zhengguang Guo, Xiaoyan Liu, Yang Lv, Xiangmei Chen, Wei Sun, Di Wu, and Youhe Gao*
- 1123 **Reductive Stress Selectively Disrupts Collagen Homeostasis and Modifies Growth Factor-independent Signaling Through the MAPK/Akt Pathway in Human Dermal Fibroblasts**
[S] *Naomi A. Carne, Steven Bell, Adrian P. Brown, Arto Määttä, Michael J. Flagler, and Adam M. Benham*
- 1138 ***Salmonella* Effectors SseK1 and SseK3 Target Death Domain Proteins in the TNF and TRAIL Signaling Pathways**
[S] *Joshua P. M. Newson, Nichollas E. Scott, Ivy Yeuk Wah Chung, Tania Wong Fok Lung, Cristina Giogha, Jiyao Gan, Nancy Wang, Richard A. Strugnell, Nathaniel F. Brown, Mirosław Cygler, Jaclyn S. Pearson, and Elizabeth L. Hartland*
- 1157 **Quantitative Early Auxin Root Proteomics Identifies GAUT10, a Galacturonosyltransferase, as a Novel Regulator of Root Meristem Maintenance**
[S] ✎ *Yunting Pu, Justin W. Walley, Zhouxin Shen, Michelle G. Lang, Steven P. Briggs, Mark Estelle, and Dior R. Kelley*

On the Cover: Proteomic analyses identified hundreds of root proteins that display dynamic responses following auxin signaling and uncovered a novel protein required for root stem cell maintenance. The plant hormone auxin is named after the Greek word "to grow". The mythical goddess Xiwangmu is shown holding a Lingchi root, which is associated with the garden of immortality. For details see the article by Pu *et al.*, pages 1157–1170.

- 1171 **Proteomics of Asrij Perturbation in *Drosophila* Lymph Glands for Identification of New Regulators of Hematopoiesis**
 [S] ✎ *Saloni Sinha, Arindam Ray, Lakshman Abhilash, Manish Kumar, Sreelakshmi K. Sreenivasamurthy, T. S. Keshava Prasad, and Maneesha S. Inamdar*
- 1183 **Effects of Size and Geographical Origin on Atlantic salmon, *Salmo salar*, Mucin O-Glycan Repertoire**
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- 1197 **Hypoxia-induced Changes in SUMO Conjugation Affect Transcriptional Regulation Under Low Oxygen**
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- 1210 **Phytoplasma-induced Changes in the Acetylome and Succinylome of *Paulownia tomentosa* Provide Evidence for Involvement of Acetylated Proteins in Witches' Broom Disease**
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- 1227 **Quantitative Microproteomics Based Characterization of the Central and Peripheral Nervous System of a Mouse Model of Krabbe Disease**
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- 1242 **Analysis of 1508 Plasma Samples by Capillary-Flow Data-Independent Acquisition Profiles Proteomics of Weight Loss and Maintenance**
 [S] ✎ *Roland Bruderer, Jan Muntel, Sebastian Müller, Oliver M. Bernhardt, Tejas Gandhi, Ornella Cominetti, Charlotte Macron, Jérôme Carayol, Oliver Rinner, Arne Astrup, Wim H. M. Saris, Jörg Hager, Armand Valsesia, Loïc Dayon, and Lukas Reiter*
- 1255 **Identification of Tumor Antigens Among the HLA Peptidomes of Glioblastoma Tumors and Plasma**
 [S] *Bracha Shraibman, Eilon Barnea, Dganit Melamed Kadosh, Yael Haimovich, Gleb Slobodin, Itzhak Rosner, Carlos López-Larrea, Norbert Hilf, Sabrina Kuttruff, Colette Song, Cedrik Britten, John Castle, Sebastian Kreiter, Katrin Frenzel, Marcos Tatagiba, Ghazaleh Tabatabai, Pierre-Yves Dietrich, Valérie Dutoit, Wolfgang Wick, Michael Platten, Frank Winkler, Andreas von Deimling, Judith Kroep, Juan Sahuquillo, Francisco Martinez-Ricarte, Jordi Rodon, Ulrik Lassen, Christian Ottensmeier, Sjoerd H. van der Burg, Per Thor Straten, Hans Skovgaard Poulsen, Berta Ponsati, Hideho Okada, Hans-Georg Rammensee, Ugur Sahin, Harpreet Singh, and Arie Admon*

Withdrawals/Retractions

- 1269 **Withdrawal: Modification of sialylation mediates the invasive properties and chemosensitivity of human hepatocellular carcinoma**
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- 1270 **Withdrawal: Identification of tumor antigens among the HLA peptidomes of glioblastoma tumors and plasma**
Bracha Shraibman, Eilon Barnea, Dganit Melamed Kadosh, Yael Haimovich, Gleb Slobodin, Itzhak Rosner, Carlos López-Larrea, Norbert Hilf, Sabrina Kuttruff, Colette Song, Cedrik Britten, John Castle, Sebastian Kreiter, Katrin Frenzel, Marcos Tatagiba, Ghazaleh Tabatabai, Pierre-Yves Dietrich, Valérie Dutoit, Wolfgang Wick, Michael Platten, Frank Winkler, Andreas von Deimling, Judith Kroep, Juan Sahuquillo, Francisco Martinez-Ricarte, Jordi Rodon, Ulrik Lassen, Christian Ottensmeier, Sjoerd H. van der Burg, Per Thor Straten, Hans Skovgaard Poulsen, Berta Ponsati, Hideho Okada, Hans-Georg Rammensee, Ugur Sahin, Harpreet Singh, and Arie Admon

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