

## Research

- 2297 **Doxorubicin-induced DNA Damage Causes Extensive Ubiquitination of Ribosomal Proteins Associated with a Decrease in Protein Translation**  
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*Vincentius A. Halim, Iraia García-Santisteban, Daniel O. Warmerdam, Bram van den Broek, Albert J. R. Heck, Shabaz Mohammed, and René H. Medema*
- 2309 **N-terminal Acetylation Levels Are Maintained During Acetyl-CoA Deficiency in *Saccharomyces cerevisiae***  
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*Sylvia Varland, Henriette Aksnes, Fedor Kryuchkov, Francis Impens, Delphi Van Haver, Veronique Jonckheere, Mathias Ziegler, Kris Gevaert, Petra Van Damme, and Thomas Arnesen*
- 2324 **Evaluation of Serum Glycoprotein Biomarker Candidates for Detection of Esophageal Adenocarcinoma and Surveillance of Barrett's Esophagus**  
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*Alok K. Shah, Gunter Hartel, Ian Brown, Clay Winterford, Renhua Na, Kim-Anh Lê Cao, Bradley A. Spicer, Michelle A. Dunstone, Wayne A. Phillips, Reginald V. Lord, Andrew P. Barbour, David I. Watson, Virendra Joshi, David C. Whiteman, and Michelle M. Hill*
- 2335 **Metabolomic Analysis Identifies Lactate as an Important Pathogenic Factor in Diabetes-associated Cognitive Decline Rats**  
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*Liangcai Zhao, Minjian Dong, Mengqian Ren, Chen Li, Hong Zheng, and Hongchang Gao*
- 2347 **Estimating the Contribution of Proteasomal Spliced Peptides to the HLA-I Ligandome**  
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*Roman Mylonas, Ilan Beer, Christian Iseli, Chloe Chong, Hui-Song Pak, David Gfeller, George Coukos, Ioannis Xenarios, Markus Müller, and Michal Bassani-Sternberg*
- 2358 **Comparative Secretome Analyses of Primary Murine White and Brown Adipocytes Reveal Novel Adipokines**  
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*Asrar Ali Khan, Jenny Hansson, Peter Weber, Sophia Foehr, Jeroen Krijgsveld, Stephan Herzig, and Marcel Scheideler*
- 2371 **Hepatic Mitochondrial Defects in a Nonalcoholic Fatty Liver Disease Mouse Model Are Associated with Increased Degradation of Oxidative Phosphorylation Subunits**  
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*Kwangwon Lee, Andrew Haddad, Abdullah Osme, Chunki Kim, Ahmad Borzou, Sergei Ilchenko, Daniela Allende, Srinivasan Dasarathy, Arthur McCullough, Rovshan G. Sadygov, and Takhar Kasumov*
- 2387 **Effects of Acetylation and Phosphorylation on Subunit Interactions in Three Large Eukaryotic Complexes**  
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*Nikolina Šoštarić, Francis J. O'Reilly, Piero Giansanti, Albert J. R. Heck, Anne-Claude Gavin, and Vera van Noort*
- 2402 **The Protein Coded by a Short Open Reading Frame, Not by the Annotated Coding Sequence, Is the Main Gene Product of the Dual-Coding Gene *MIEF1***  
[S] ✎  
*Vivian Delcourt, Mylène Brunelle, Annie V. Roy, Jean-François Jacques, Michel Salzet, Isabelle Fournier, and Xavier Roucou*

Midostaurin displays anticancer activity in non-small cell lung cancer through inhibition of non-canonical targets. Functional proteomics comprised of chemical and phosphoproteomics and subsequent interrogation of the functional effector network reveals a complex polypharmacology mechanism of action and enables the rational design of a synergistic drug combination. For details, see the article by Ctordecka *et al.*, 2434–2447.

- 2412 **Comparative Secretome Analyses of Human and Zoonotic *Staphylococcus aureus* Isolates CC8, CC22, and CC398**  
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*Tobias Busche, Mélanie Hillion, Vu Van Loi, David Berg, Birgit Walther, Torsten Semmler, Birgit Strommenger, Wolfgang Witte, Christiane Cuny, Alexander Mellmann, Mark A. Holmes, Jörn Kalinowski, Lorenz Adrian, Jörg Bernhardt, and Haike Antelmann*
- 2434 **Functional Proteomics and Deep Network Interrogation Reveal a Complex Mechanism of Action of Midostaurin in Lung Cancer Cells**  
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*Claudia Ctortecka, Vinayak Palve, Brent M. Kuenzi, Bin Fang, Natalia J. Sumi, Victoria Izumi, Silvia Novakova, Fumi Kinose, Lily L. Remsing Rix, Eric B. Haura, John Matthew Koomen, and Uwe Rix*
- 2448 **A Quantitative Chemical Proteomic Strategy for Profiling Phosphoprotein Phosphatases from Yeast to Humans**  
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*Scott P. Lyons, Nicole P. Jenkins, Isha Nasa, Meng S. Choy, Mark E. Adamo, Rebecca Page, Wolfgang Peti, Greg B. Moorhead, and Arminja N. Kettenbach*
- 2462 **Knockout of the Hmt1p Arginine Methyltransferase in *Saccharomyces cerevisiae* Leads to the Dysregulation of Phosphate-associated Genes and Processes**  
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- 2480 **Discovery of a Human Testis-specific Protein Complex TEX101-DPEP3 and Selection of Its Disrupting Antibodies**  
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*Christina Schiza, Dimitrios Korbakis, Efstratia Panteleli, Keith Jarvi, Andrei P. Drabovich, and Eleftherios P. Diamandis*
- 2496 **A New Tool to Reveal Bacterial Signaling Mechanisms in Antibiotic Treatment and Resistance**  
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*Miao-Hsia Lin, Clement M. Potel, Kamaledin H. M. E. Tehrani, Albert J. R. Heck, Nathaniel I. Martin, and Simone Lemeer*

## Technological Innovation and Resources

- 2508 **Endoglycosidase S Enables a Highly Simplified Clinical Chemistry Procedure for Direct Assessment of Serum IgG Undergalactosylation in Chronic Inflammatory Disease**  
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*Dieter Vanderschaeghe, Leander Meuris, Tom Raes, Hendrik Grootaert, Annelies Van Hecke, Xavier Verhelst, Frederique Van de Velde, Bruno Lapauw, Hans Van Vlierberghe, and Nico Callewaert*
- 2518 **Chromobodies to Quantify Changes of Endogenous Protein Concentration in Living Cells**  
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*Bettina-Maria Keller, Julia Maier, Kathy-Ann Secker, Stefanie-Maria Egetemaier, Yana Parfyonova, Ulrich Rothbauer, and Bjoern Traenkle*
- 2534 **Online Parallel Accumulation–Serial Fragmentation (PASEF) with a Novel Trapped Ion Mobility Mass Spectrometer**  
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*Florian Meier, Andreas-David Brunner, Scarlet Koch, Heiner Koch, Markus Lubeck, Michael Krause, Niels Goedecke, Jens Decker, Thomas Kosinski, Melvin A. Park, Nicolai Bache, Ole Hoerning, Jürgen Cox, Oliver Räther, and Matthias Mann*

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