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### Research

- 1829 **A Chemical Proteomics Approach to Phosphatidylinositol 3-Kinase Signaling in Macrophages**  
[S] *Christian Pasquali, Dominique Bertschy-Meier, Christian Chabert, Marie-Laure Curchod, Christian Arod, Randy Booth, Karl Mechtler, Francis Vilbois, Ioannis Xenarios, Colin G. Ferguson, Glenn D. Prestwich, Montserrat Camps, and Christian Rommel*
- 1842 **Nerve Growth Factor Receptor TrkA Signaling in Breast Cancer Cells Involves Ku70 to Prevent Apoptosis**  
[S] *Emmanuelle Com, Chann Lagadec, Adeline Page, Ikram El Yazidi-Belkoura, Christian Slomianny, Ambre Spencer, Djilali Hammache, Brian B. Rudkin, and Hubert Hondermarck*
- 1855 **A Novel Cysteine Cross-linking Method Reveals a Direct Association between Claudin-1 and Tetraspanin CD9**  
[S] *Oleg V. Kovalenko, Xiuwei H. Yang, and Martin E. Hemler*
- 1868 **Comparative Proteomics Analysis of Differentially Expressed Proteins in Chickpea Extracellular Matrix during Dehydration Stress**  
[S] *Deepti Bhushan, Aarti Pandey, Mani Kant Choudhary, Asis Datta, Subhra Chakraborty, and Niranjana Chakraborty*
- 1885 **Quantitative Profiling of Ubiquitylated Proteins Reveals Proteasome Substrates and the Substrate Repertoire Influenced by the Rpn10 Receptor Pathway**  
[S] *Thibault Mayor, Johannes Graumann, Jennifer Bryan, Michael J. MacCoss, and Raymond J. Deshaies*
- 1896 **Profiling Phosphoproteins of Yeast Mitochondria Reveals a Role of Phosphorylation in Assembly of the ATP Synthase**  
[S] *Jörg Reinders, Karina Wagner, Rene P. Zahedi, Diana Stojanovski, Beate Eyrich, Martin van der Laan, Peter Rehling, Albert Sickmann, Nikolaus Pfanner, and Chris Meisinger*
- 1907 **A Metal-coded Affinity Tag Approach to Quantitative Proteomics**  
*Robert Ahrends, Stefan Pieper, Andreas Kühn, Hardy Weisshoff, Meike Hamester, Torsten Lindemann, Christian Scheler, Karola Lehmann, Kerstin Taubner, and Michael W. Linscheid*
- 1917 **Analysis of Dynamic Changes in Post-translational Modifications of Human Histones during Cell Cycle by Mass Spectrometry**  
[S] *Débora Bonenfant, Harry Towbin, Michèle Coulot, Patrick Schindler, Dieter R. Mueller, and Jan van Oostrum*

On the cover, electron transfer dissociation (ETD) is a powerful new approach for post-translational modification discovery and for large peptide sequencing via mass spectrometry. In this issue, Good *et al.* examine the performance of this new technology and demonstrate that the magnitude of the ETD reagent anion is critical for expedient sequence analysis. For details, see the article by Good *et al.*, pages 1942–1951.

[S] Online version of this article contains supplemental material.

- 1933 **Enhanced *N*-Glycosylation Site Analysis of Sialoglycopeptides by Strong Cation Exchange Prefractionation Applied to Platelet Plasma Membranes**  
 Urs Lewandrowski, René P. Zahedi, Jan Moebius, Ulrich Walter, and Albert Sickmann
- 1942 **Performance Characteristics of Electron Transfer Dissociation Mass Spectrometry**  
 David M. Good, Matthew Wirtala, Graeme C. McAlister, and Joshua J. Coon
- 1952 **Quantitative Phosphoproteome Profiling of Wnt3a-mediated Signaling Network: Indicating the Involvement of Ribonucleoside-diphosphate Reductase M2 Subunit Phosphorylation at Residue Serine 20 in Canonical Wnt Signal Transduction**  
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- 1968 **The *Saccharomyces* Homolog of Mammalian RACK1, Cpc2/Asc1p, Is Required for *FLO11*-dependent Adhesive Growth and Dimorphism**  
 Oliver Valerius, Malte Kleinschmidt, Nicole Rachfall, Florian Schulze, Sarai López Marín, Michael Hoppert, Katrin Streckfuss-Bömeke, Claudia Fischer, and Gerhard H. Braus
- 1980 **A High Content in Lipid-modified Peripheral Proteins and Integral Receptor Kinases Features in the *Arabidopsis* Plasma Membrane Proteome**  
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- 1997 **Proteomics Analysis of Conditioned Media from Three Breast Cancer Cell Lines: A Mine for Biomarkers and Therapeutic Targets**  
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- 2012 **Interrogating Yeast Surface-displayed Human Proteome to Identify Small Molecule-binding Proteins**  
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- 2021 **Mammalian Proteasome Subpopulations with Distinct Molecular Compositions and Proteolytic Activities**  
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- 2043 **The Human Liver Proteome Project**  
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