

## Research

- 1586 **FYN and ABL Regulate the Interaction Networks of the DCBLD Receptor Family**  
*Anna M. Schmoker, Jaye L. Weinert, Jacob M. Markwood, Kathryn S. Albretsen, Michelle L. Lunde, Marion E. Weir, Alicia M. Ebert, Karen L. Hinkle, and Bryan A. Ballif*
- 1602 **Examining and Fine-tuning the Selection of Glycan Compositions with GlyConnect Compozitor**  
✂ *Thibault Robin, Julien Mariethoz, and Frédérique Lisacek*
- 1619 **Novel Proteome Extraction Method Illustrates a Conserved Immunological Signature of MSI-H Colorectal Tumors**  
*Elez D. Vainer, Juliane Kania-Almog, Ghadeer Zatara, Yishai Levin, and Gilad W. Vainer*
- 1632 **The Neuroproteomic Basis of Enhanced Perception and Processing of Brood Signals That Trigger Increased Reproductive Investment in Honeybee (*Apis mellifera*) Workers**  
*Xufeng Zhang, Han Hu, Bin Han, Qiaohong Wei, Lifeng Meng, Fan Wu, Yu Fang, Mao Feng, Chuan Ma, Olav Rueppell, and Jianke Li*
- 1649 **Radiosensitization by Kinase Inhibition Revealed by Phosphoproteomic Analysis of Pancreatic Cancer Cells**  
✂ *Svenja Wiechmann, Elena Saupp, Daniela Schilling, Stephanie Heinzlmeir, Günter Schneider, Roland M. Schmid, Stephanie E. Combs, Bernhard Kuster, and Sophie Dobiasch*
- 1664 **Agonists of Orally Expressed TRP Channels Stimulate Salivary Secretion and Modify the Salivary Proteome**  
*Jack William Houghton, Guy Carpenter, Joachim Hans, Manuel Pesaro, Steven Lynham, and Gordon Proctor*
- 1677 **Benefits of Collisional Cross Section Assisted Precursor Selection (caps-PASEF) for Cross-linking Mass Spectrometry**  
✂ *Barbara Steigenberger, Henk W. P. van den Toorn, Emiel Bijl, Jean-François Greisch, Oliver Räther, Markus Lubeck, Roland J. Pieters, Albert J. R. Heck, and Richard A. Scheltema*
- 1688 **Molecular Profiling of Innate Immune Response Mechanisms in Ventilator-associated Pneumonia**  
✂ *Khyatiben V. Pathak, Marissa I. McGilvrey, Charles K. Hu, Krystine Garcia-Mansfield, Karen Lewandoski, Zahra Eftekhari, Yate-Ching Yuan, Frederic Zenhausem, Emmanuel Menashi, and Patrick Pirrotte*

## Technological Innovation and Resources

- 1706 **MSstatsTMT: Statistical Detection of Differentially Abundant Proteins in Experiments with Isobaric Labeling and Multiple Mixtures**  
✂ *Ting Huang, Meena Choi, Manuel Tzouros, Sabrina Golling, Nikhil Janak Pandya, Balazs Banfai, Tom Dunkley, and Olga Vitek*

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On the Cover: Integrated longitudinal proteomics and metabolomics analyses in patients with ventilator associated pneumonia (VAP) revealed a central for neutrophil mediated innate immunity. In response to pathogen stimuli, neutrophils are recruited into inflamed trachea and alveoli to destroy pathogens by triggering degranulation, release of reactive oxygen species, hydrolytic enzymes and formation of neutrophil extracellular traps. For details, see the article by Pathak *et al.*, pages 1688–1705.

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- 1724      **Molecular Dynamics Simulation-assisted Ionic Liquid Screening for Deep Coverage Proteome Analysis**  
*Fei Fang, Qun Zhao, Huiying Chu, Mingwei Liu, Baofeng Zhao, Zhen Liang, Lihua Zhang, Guohui Li, Liming Wang, Jun Qin, and Yukui Zhang*

## **Addition and Correction**

- 1738      **Concentration Determination of >200 Proteins in Dried Blood Spots for Biomarker Discovery and Validation**  
*Azad Eshghi, Adam J. Pistawka, Jun Liu, Michael Chen, Nicholas J. T. Sinclair, Darryl B. Hardie, Monica Elliott, Lei Chen, Rachael Newman, Yassene Mohammed , and Christoph H. Borchers*

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