

## Research

- 2082 **Epigenetic Variability Confounds Transcriptome but Not Proteome Profiling for Coexpression-based Gene Function Prediction**  
[S] ✎  
*Piotr Grabowski, Georg Kustatscher, and Juri Rappsilber*
- 2091 **hnRNPs Interacting with mRNA Localization Motifs Define Axonal RNA Regulons**  
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*Seung Joon Lee, Juan A. Oses-Prieto, Riki Kawaguchi, Pabitra K. Sahoo, Amar N. Kar, Meir Rozenbaum, David Oliver, Shreya Chand, Hao Ji, Michael Shtutman, Sharmina Miller-Randolph, Ross J. Taylor, Mike Fainzilber, Giovanni Coppola, Alma L. Burlingame, and Jeffery L. Twiss*
- 2107 **Glycomic Profiling Highlights Increased Fucosylation in Pseudomyxoma Peritonei**  
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*Lilli Saarinen, Pirjo Nummela, Hannele Leinonen, Annamari Heiskanen, Alexandra Thiel, Caj Haglund, Anna Lepistö, Tero Satomaa, Sampsa Hautaniemi, and Ari Ristimäki*
- 2119 **Temporal Proteomic Analysis of Pancreatic  $\beta$ -Cells in Response to Lipotoxicity and Glucolipototoxicity**  
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*Zonghong Li, Hongyang Liu, Zhangjing Niu, Wen Zhong, Miaomiao Xue, Jifeng Wang, Fuquan Yang, Yue Zhou, Yifa Zhou, Tao Xu, and Junjie Hou*
- 2132 **Identification of Tumor Antigens Among the HLA Peptidomes of Glioblastoma Tumors and Plasma**  
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*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*
- 2146 **Development of a Gill Assay Library for Ecological Proteomics of Threespine Sticklebacks (*Gasterosteus aculeatus*)**  
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*Johnathon Li, Bryn Levitan, Silvia Gomez-Jimenez, and Dietmar Kültz*
- 2164 **Glycomics@ExpASy: Bridging the Gap**  
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*Julien Mariethoz, Davide Alloci, Alessandra Gastaldello, Oliver Horlacher, Elisabeth Gasteiger, Miguel Rojas-Macias, Niclas G. Karlsson, Nicolle H. Packer, and Frédérique Lisacek*
- 2177 **Isomeric Separation and Recognition of Anionic and Zwitterionic N-glycans from Royal Jelly Glycoproteins**  
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*Alba Hykollari, Daniel Malzl, Barbara Eckmair, Jorick Vanbeselaere, Patrick Scheidl, Chunsheng Jin, Niclas G. Karlsson, Iain B. H. Wilson, and Katharina Paschinger*

The geographical range of Zika virus (ZIKV) has expanded dramatically in recent decades, accompanied by a spike in Guillain-Barré syndrome and microcephaly. No antiviral drugs or vaccines are available for the treatment or prevention of ZIKV infection. To learn more about ZIKV biology, we used IP-MS and BioID to map host cell protein interactions for each of the 10 ZIKV polypeptides, generating a protein topology network comprising >3000 interactions among >1200 human polypeptides. Depicted here is the ZIKV life cycle in a human cell (*green arrow*), along with a number of newly described interactions between ZIKV proteins (*blue circles*) and host cell organelles. For details, see the article by Coyaud *et al.*, pages 2242–2255.

- 2197 **Comprehensive Proteomics Identification of IFN- $\lambda$ 3-regulated Antiviral Proteins in HBV-transfected Cells**  
 [S] *Jiradej Makjaroen, Poorichaya Somparn, Kenneth Hodge, Witthaya Poomipak, Nattiya Hirankarn, and Trairak Pisitkun*
- 2216 **Interactome Mapping Uncovers a General Role for Numb in Protein Kinase Regulation**  
 [S] *Ran Wei, Tomonori Kaneko, Xuguang Liu, Huadong Liu, Lei Li, Courtney Voss, Eric Liu, Ningning He, and Shawn S.-C. Li*
- 2229 **Protein Palmitoylation Plays an Important Role in *Trichomonas vaginalis* Adherence**  
 [S] *Yesica R. Nieves, Ajay A. Vashisht, Maria M. Corvi, Sebastian Metz, Patricia J. Johnson, James A. Wohlschlegel, and Natalia de Miguel*
- 2242 **Global Interactomics Uncovers Extensive Organellar Targeting by Zika Virus**  
 [S] *Etienne Coyaud, Charlene Ranadheera, Derrick Cheng, João Gonçalves, Boris J. A. Dyakov, Estelle M. N. Laurent, Jonathan St-Germain, Laurence Pelletier, Anne-Claude Gingras, John H. Brumell, Peter K. Kim, David Safronetz, and Brian Raught*

## Technological Innovation and Resources

- 2256 **A Versatile Lentiviral Delivery Toolkit for Proximity-dependent Biotinylation in Diverse Cell Types**  
 [S] *Payman Samavarchi-Tehrani, Hala Abdouni, Reuben Samson, and Anne-Claude Gingras*
- 2270 **gpGrouper: A Peptide Grouping Algorithm for Gene-Centric Inference and Quantitation of Bottom-Up Proteomics Data**  
 [S] *Alexander B. Saltzman, Mei Leng, Bhoomi Bhatt, Purba Singh, Doug W. Chan, Lacey Dobrolecki, Hamssika Chandrasekaran, Jong M. Choi, Antrix Jain, Sung Y. Jung, Michael T. Lewis, Matthew J. Ellis, and Anna Malovannaya*
- 2284 **A Novel LC System Embeds Analytes in Pre-formed Gradients for Rapid, Ultra-robust Proteomics**  
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