

## Orbitrap Exploris 480

### **A Compact Quadrupole-Orbitrap Mass Spectrometer with FAIMS Interface Improves Proteome Coverage in Short LC Gradients**

Dorte B. Bekker-Jensen, Ana Martínez-Val, Sophia Steigerwald, Patrick Rütther, Kyle L. Fort, Tabiwang N. Arrey, Alexander Harder, Alexander Makarov and Jesper V. Olsen

*Molecular & Cellular Proteomics* April 1, 2020, First published on February 12, 2020, 19 (4) 716-729

<https://www.mcponline.org/content/19/4/716.abstract>

### **The Global Phosphorylation Landscape of SARS-CoV-2 Infection**

Mehdi Bouhaddou, Danish Memon, Bjoern Meyer, Kris M. White, Veronica V. Rezelj, Miguel Correa Marrero, Benjamin J. Polacco, James E. Melnyk, Svenja Ulferts, Robyn M. Kaake, Jyoti Batra, Alicia L. Richards, Erica Stevenson, David E. Gordon, Ajda Rojc, Kirsten Obernier, Jacqueline M. Fabius, Margaret Soucheray, Lisa Miorin, Elena Moreno, Cassandra Koh, Quang Dinh Tran, Alexandra Hardy, Remy Robinot, Thomas Vallet, Benjamin E. Nilsson-Payant, Claudia Hernandez-Armenta, Alistair Dunham, Sebastian Weigang, Julian Knerr, Maya Modak, Diego Quintero, Yuan Zhou, Aurelien Dugourd, Alberto Valdeolivas, Trupti Patil, Qiongyu Li, Ruth Huttenhain, Merve Cakir, Monita Muralidharan, Minkyu Kim, Gwendolyn Jang, Beril Tutuncuoglu, Joseph Hiatt, Jeffrey Z. Guo, Jiewei Xu, Sophia Bouhaddou, Christopher J.P. Mathy, Anna Gaulton, Emma J. Manners, Eloy Felix, Ying Shi, Marisa Goff, Jean K. Lim, Timothy McBride, Michael C. O'Neal, Yiming Cai, Jason C.J. Chang, David J. Broadhurst, Saker Klippsten, Emmie Dewit, Andrew R. Leach, Tanja Kortemme, Brian Shoichet, Melanie Ott, Julio Saez-Rodriguez, Benjamin R. tenOever, R. Dyché Mullins, Elizabeth R. Fischer, Georg Kochs, Robert Grosse, Adolfo Garcí'a-Sastre, Marco Vignuzzi, Jeffery R. Johnson, Kevan M. Shokat, Danielle L. Swaney, Pedro Beltrao and Nevan J. Krogan

*Cell* 182, 1–28, August 6, 2020

[https://www.sciencedirect.com/science/article/pii/S0092867420308114?dgcid=rss\\_sd\\_all](https://www.sciencedirect.com/science/article/pii/S0092867420308114?dgcid=rss_sd_all)

### **Rapid Sample Preparation Workflow for Serum Sample Analysis with Different Mass Spectrometry Acquisition Strategies**

Fenglin Shen, Yueting Xiong, Lei Zhang, Hengchao Li, Huanhuan Zhao, Xiaohui Liu\*, and Pengyuan Yang

*Anal. Chem.* 2021, 93, 3, 1578–1585

<https://pubs.acs.org/doi/10.1021/acs.analchem.0c03985>

### **A Simple Method for In-Depth Proteome Analysis of Mammalian Cell Culture Conditioned Media Containing Fetal Bovine Serum**

Ren Nakamura, Daisuke Nakajima, Hironori Sato, Yusuke Endo, Osamu Ohara and Yusuke Kawashima

*Int. J. Mol. Sci.* 2021, 22, 2565

<https://www.mdpi.com/1422-0067/22/5/2565/htm>

**Proteomics of resistance to Notch1 inhibition in acute lymphoblastic leukemia reveals targetable kinase signatures**

Giulia Franciosa, Jos G. A. Smits, Sonia Minuzzo, Ana Martinez-Val, Stefano Indraccolo & Jesper V. Olsen

*Nature Communications* volume 12, Article number: 2507 (2021)

<https://www.nature.com/articles/s41467-021-22787-9>

**Multilevel proteomics reveals host perturbations by SARS-CoV-2 and SARS-CoV**

Alexey Stukalov, Virginie Girault, Vincent Grass, Ozge Karayel, Valter Bergant, Christian Urban, Darya A. Haas, Yiqi Huang, Lila Oubraham, Anqi Wang, M. Sabri Hamad, Antonio Piras, Fynn M. Hansen, Maria C. Tanzer, Igor Paron, Luca Zinzula, Thomas Engleitner, Maria Reinecke, Teresa M. Lavacca, Rosina Ehmann, Roman Wölfel, Jörg Jores, Bernhard Kuster, Ulrike Protzer, Roland Rad, John Ziebuhr, Volker Thiel, Pietro Scaturro, Matthias Mann & Andreas Pichlmair

*Nature* (2021)

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**Serine Protease HTRA1 as a Novel Target Antigen in Primary Membranous Nephropathy**

Laith Farah Al-Rabadi, Tiffany Caza, Claire Trivin-Avillach, Aylin R. Rodan, Nicole Andeen, Norifumi Hayashi, Brandi Williams, Monica P. Revelo, Fred Clayton, Jo Abraham, Edwin Lin, Willis Liou, Chang-Jiang Zou, Nirupama Ramkumar, Tim Cummins, Daniel W. Wilkey, Issa Kawalit, Christian Herzog, Aaron Storey, Rick Edmondson, Ronald Sjoberg, Tianxin Yang, Jeremy Chien, Michael Merchant, John Arthur, Jon Klein, Chris Larsen and Laurence H. Beck

*JASN* May 2021, ASN.2020101395

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**Extensive remodeling of the extracellular matrix during aging contributes to age-dependent impairments of muscle stem cell functionality**

Svenja C. Schuler, Joanna M. Kirkpatrick, Manuel Schmidt, Deolinda Santinha, Philipp Koch, Simone Di Sanzo, Emilio Cirri, Martin Hemberg, Alessandro Ori, and Julia von Maltzahn

*Cell Reports* 35, 109223, June 8, 2021

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**Altered Glycosylation in the Aging Heart**

Patricia Franzka, Lynn Krüger, Mona K. Schurig, Maja Olecka, Steve Hoffmann, Véronique Blanchard and Christian A. Hübner

*Front Mol Biosci.* 2021; 8: 673044.

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**Bottom-up proteomic analysis of human adult cardiac tissue and isolated cardiomyocytes**

Melinda Wojtkiewicz, Linda Berg Luecke, Chase Castro, Maria Burkovetskaya, Roneldine Mesidor, Rebekah L. Gundry

*Journal of Molecular and Cellular Cardiology* Volume 162, January 2022, Pages 20-31

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**The autoimmune signature of hyperinflammatory multisystem inflammatory syndrome in children**

Rebecca A. Porritt, Aleksandra Binek, Lisa Paschold, Magali Noval Rivas, Angela Mc Ardle, Lael M. Yonker, Galit Alter, Harsha Chandnani, Merrick Lopez, Alessio Fasano, Jennifer E. Van Eyk, Mascha Binder and Moshe Arditi

*J Clin Invest.* 2021.

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**The effect of drug loading and multiple administration on the protein corona formation and brain delivery property of PEG-PLA nanoparticles**

Yuyun Tang, Jinchao Gao, Tao Wang, Qian Zhang, Antian Wang, Meng Huang, Renhe Yu, Hongzhan Chen, Xiaoling Gao

*Acta Pharmaceutica Sinica B* Available online 30 September 2021

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**Iron Oxide Nanoparticles Carrying 5-Fluorouracil in Combination with Magnetic Hyperthermia Induce Thrombogenic Collagen Fibers, Cellular Stress, and Immune Responses in Heterotopic Human Colon Cancer in Mice**

Mohammad Dabaghi, Seyed Mohammad Mahdi Rasa, Emilio Cirri, Alessandro Ori, Francesco Neri, Rainer Quaas and Ingrid Hilger

*Pharmaceutics* 2021, 13(10), 1625

<https://www.mdpi.com/1999-4923/13/10/1625/htm>

**Brain-Restricted Inhibition of IL-6 Trans-Signaling Mildly Affects Metabolic Consequences of Maternal Obesity in Male Offspring**

Saida Breuer, Philipp Kasper, Christina Vohlen, Ruth Janoschek, Thorben Hoffmann, Sarah Appel, Elena Müller-Limberger, Andrea Mesaros, Stefan Rose-John, Christoph Garbers, Stefan Müller, Jan-Wilm Lackmann, Esther Mahabir, Jörg Dötsch, Eva Hucklenbruch-Rother and Inga Bae-Gartz

*Nutrients* 2021, 13, 3735.

<https://www.mdpi.com/2072-6643/13/11/3735/htm>

**Molecular characterization of hematopoietic stem cells after in vitro amplification on biomimetic 3D PDMS cell culture scaffolds**

Lisa Marx-Blümel, Christian Marx, Jürgen Sonnemann, Frank Weise, Jörg Hampl, Jessica Frey, Linda Rothenburger, Emilio Cirri, Norman Rahnis, Philipp Koch, Marco Groth, Andreas Schober, Zhao-Qi Wang & James F. Beck

*Scientific Reports* volume 11, Article number: 21163 (2021)

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### **Antenatal Mesenchymal Stromal Cell Extracellular Vesicle Therapy Prevents Preeclamptic Lung Injury in Mice**

Elizabeth S. Taglauer, Angeles Fernandez-Gonzalez, Gareth R. Willis, Monica Reis, Vincent Yeung, Xianlan Liu, Lawrence S. Prince, S. Alex Mitsialis, Stella Kourembanas

*Am J Respir Cell Mol Biol* . 2021 Oct 6

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### **Mitochondrial translation is required for sustained killing by cytotoxic T cells**

Miriam Lisci, Philippa R. Barton, Lyra O. Randzavola, Claire Y. Ma, Julia M. Marchingo, Doreen A. Cantrell, Vincent Paupe, Julien Prudent, Jane C. Stinchcombe, Gillian M. Griffiths

*SCIENCE* • 15 Oct 2021 • Vol 374, Issue 6565

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### **Standardized Workflow for Precise Mid- and High-Throughput Proteomics of Blood Biofluids**

Angela Mc Ardle, Aleksandra Binek, Annie Moradian, Blandine Chazarin Orgel, Alejandro Rivas, Kirstin E. Washington, Conor Phebus, Danica-Mae Manalo, James Go, Vidya Venkatraman, Casey W. Coutelin Johnson, Qin Fu, Susan Cheng, Koen Raedschelders, Justyna Fert-Bober, Stephen R. Pennington, Christopher I. Murray and Jennifer E. Van Eyk

*Clinical Chemistry 00:0 Proteomics and Protein Markers 1–11* (2021)

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### **Comparative proteome signatures of trace samples by multiplexed Data-Independent Acquisition**

Claudia Ctortecka, Gabriela Krššáková, Karel Stejskal, Josef M. Penninger, Sasha Mendjan, Karl Mechtler, Johannes Stadlmann

*Molecular & Cellular Proteomics* 2021

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### **DIA-based quantitative proteomic analysis on the meat quality of porcine Longissimus thoracis et lumborum cooked by different procedures**

Yu Song, Feng Huang, Xia Li, Hongru Zhang, Jiqian Liu, Dong Han, Maoneng Rui, Jipeng Wang, Chunhui Zhang

*Food Chemistry* Volume 371, 1 March 2022, 131206

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**Dynamic FMR1 granule phase switch instructed by m6A modification contributes to maternal RNA decay**

Guoqiang Zhang, Yongru Xu, Xiaona Wang, Yuanxiang Zhu, Liangliang Wang, Wenxin Zhang, Yiru Wang, Yajie Gao, Xuna Wu, Ying Cheng, Qinmiao Sun & Dahua Chen

*Nature Communications volume 13, Article number: 859 (2022)*

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**Evolution of enhanced innate immune evasion by SARS-CoV-2**

Lucy G. Thorne, Mehdi Bouhaddou, Ann-Kathrin Reuschl, Lorena Zuliani-Alvarez, Ben Polacco, Adrian Pelin, Jyoti Batra, Matthew V. X. Whelan, Myra Hosmillo, Andrea Fossati, Roberta Ragazzini, Irwin Jungreis, Manisha Ummadi, Ajda Rojc, Jane Turner, Marie L. Bischof, Kirsten Obernier, Hannes Braberg, Margaret Soucheray, Alicia Richards, Kuei-Ho Chen, Bhavya Harjai, Danish Memon, Joseph Hiatt, Romel Rosales, Briana L. McGovern, Aminu Jahun, Jacqueline M. Fabius, Kris White, Ian G. Goodfellow, Yasu Takeuchi, Paola Bonfanti, Kevan Shokat, Natalia Jura, Klim Verba, Mahdad Noursadeghi, Pedro Beltrao, Manolis Kellis, Danielle L. Swaney, Adolfo García-Sastre, Clare Jolly, Greg J. Towers & Nevan J. Krogan

*Nature volume 602, pages487–495 (2022)*

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**Spatial-proteomics reveals phospho-signaling dynamics at subcellular resolution**

Ana Martinez-Val, Dorte B. Bekker-Jensen, Sophia Steigerwald, Claire Koenig, Ole Østergaard, Adi Mehta, Trung Tran, Krzysztof Sikorski, Estefanía Torres-Vega, Ewa Kwasniewicz, Sólveig Hlín Brynjólfssdóttir, Lisa B. Frankel, Rasmus Kjøbsted, Nicolai Krogh, Alicia Lundby, Simon Bekker-Jensen, Fridtjof Lund-Johansen & Jesper V. Olsen

*Nature Communications volume 12, Article number: 7113 (2021)*

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**Personalized phosphoproteomics identifies functional signaling**

Elise J. Needham, Janne R. Hingst, Benjamin L. Parker, Kaitlin R. Morrison, Guang Yang, Johan Onslev, Jonas M. Kristensen, Kurt Højlund, Naomi X. Y. Ling, Jonathan S. Oakhill, Erik A. Richter, Bente Kiens, Janni Petersen, Christian Pehmøller, David E. James, Jørgen F. P. Wojtaszewski & Sean J. Humphrey

*Nature Biotechnology (2021)*

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**Global ubiquitylation analysis of mitochondria in primary neurons identifies endogenous Parkin targets following activation of PINK1**

Odetta Antico, Alban Ordureau, Michael Stevens, Francois Singh, Raja S. Nirujogi, Marek Gierlinski, Erica Barini, Mollie L. Rickwood, Alan Prescott, Rachel Toth, Ian G. Ganley, J. Wade Harper, Miratul M. K. Muqit

*Sci. Adv.* 7, eabj0722 (2021)

<https://www.science.org/doi/10.1126/sciadv.abj0722>

**Nrf2 activation reprograms macrophage intermediary metabolism and suppresses the type I interferon response**

Dylan G. Ryan, Elena V. Knatko, Alva M. Casey, Jens L. Hukelmann, Sharadha Dayalan Naidu, Alejandro J. Brenes, Thanapon Ekkunagul, Christa Baker, Maureen Higgins, Laura Tronci, Efterpi Nikitopolou, Tadashi Honda, Richard C. Hartley, Luke A.J. O'Neill, Christian Frezza, Angus I. Lamond, Andrey Y. Abramov, J. Simon C. Arthur, Doreen A. Cantrell, Michael P. Murphy, Alben T. Dinkova-Kostova

*iScience*, Volume 25, Issue 2, 2022, 103827

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**Data-Independent Acquisition Mass Spectrometry-Based Deep Proteome Analysis for Hydrophobic Proteins from Dried Blood Spots Enriched by Sodium Carbonate Precipitation**

Daisuke Nakajima, Osamu Ohara, Yusuke Kawashima

*Clinical Proteomics* (2022)

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**Acute exercise rapidly activates hepatic mitophagic flux**

Colin S. McCain, Edziu Franczak, Fengyan Deng, Dong Pei, Wen-Xing Ding, John P. Thyfault

*Journal of Applied Physiology*, 2022

<https://journals.physiology.org/doi/epdf/10.1152/jappphysiol.00704.2021>

**Transcriptomic and Proteomic Characterizations of the Molecular Response to Blue Light and Salicylic Acid in *Haematococcus pluvialis***

Xiaodong Wang, Chunxiao Meng, Hao Zhang, Wei Xing, Kai Cao, Bingkui Zhu, Chengsong Zhang, Fengjie Sun and Zhengquan Gao

*Mar. Drugs* 2022, 20(1), 1

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**Quantitative Accuracy and Precision in Multiplexed Single-Cell Proteomics**

Claudia Ctortecka\*, Karel Stejskal, Gabriela Krššáková, Sasha Mendjan, and Karl Mechtler

*Analytical Chemistry* 2022, 94, 5, 2434-2443

<https://pubs.acs.org/doi/10.1021/acs.analchem.1c04174>

### **SPIN enables high throughput species identification of archaeological bone by proteomics**

Patrick Leopold R  ther, Immanuel Mirnes Husic, Pernille Bangsgaard, Kristian Murphy Gregersen, Pernille Pantmann, Milena Carvalho, Ricardo Miguel Godinho, Lukas Friedl, Jo   Cascalheira, Alberto John Taurozzi, Marie Louise Schjellerup J  rkov, Michael M. Benedetti, Jonathan Haws, Nuno Bicho, Frido Welker, Enrico Cappellini & Jesper Velgaard Olsen

*Nature Communications volume 13, Article number: 2458 (2022)*

<https://www.nature.com/articles/s41467-022-30097-x>

### **Noninvasive proteomic biomarkers for alcohol-related liver disease**

Lili Niu, Maja Thiele, Philipp E. Geyer, Ditlev Nytoft Rasmussen, Henry Emanuel Webel, Alberto Santos, Rajat Gupta, Florian Meier, Maximilian Strauss, Maria Kjaergaard, Katrine Lindvig, Suganya Jacobsen, Simon Rasmussen, Torben Hansen, Aleksander Krag & Matthias Mann

*Nature Medicine (2022)*

<https://www.nature.com/articles/s41591-022-01850-y>

### **Deubiquitinating enzymes and the proteasome regulate preferential sets of ubiquitin substrates**

Fredrik Trulsson, Vyacheslav Akimov, Mihaela Robu, Nila van Overbeek, David Aureliano P  rez Berrocal, Rashmi G. Shah, J  rgen Cox, Girish M. Shah, Blagoy Blagoev & Alfred C. O. Vertegaal

*Nature Communications volume 13, Article number: 2736 (2022)*

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### **Biomarker Candidates for Tumors Identified from Deep-Profiled Plasma Stem Predominantly from the Low Abundant Area**

Marco Tognetti, Kamil Sklodowski, Sebastian M  ller, Dominique Kamber, Jan Muntel, Roland Bruderer, and Lukas Reiter

*Journal of Proteome Research, Articles ASAP (Article)*

<https://pubs.acs.org/doi/10.1021/acs.jproteome.2c00122>

### **Building Spectral Libraries from Narrow-Window Data-Independent Acquisition Mass Spectrometry Data**

Lilian R. Heil, William E. Fondrie, Christopher D. McGann, Alexander J. Federation, William S. Noble\*, Michael J. MacCoss, and Uri Keich

*Journal of Proteome Research 2022, 21, 6, 1382-1391*

<https://pubs.acs.org/doi/10.1021/acs.jproteome.1c00895>

### **Single-Shot 10K Proteome Approach: Over 10,000 Protein Identifications by Data-Independent Acquisition-Based Single-Shot Proteomics with Ion Mobility Spectrometry**

Yusuke Kawashima\*, Hirotaka Nagai, Ryo Konno, Masaki Ishikawa, Daisuke Nakajima, Hironori Sato, Ren Nakamura, Tomoyuki Furuyashiki, and Osamu Ohara

*Journal of Proteome Research* 2022, 21, 6, 1418-1427

<https://pubs.acs.org/doi/10.1021/acs.jproteome.2c00023>

**Spatial region-resolved proteome map reveals mechanism of COVID-19-associated heart injury**

Ling Leng, Jie Ma, Pei-Pei Zhang, Si-Chi Xu, Xiao Li, Ye Jin, Jun Cai, Rui Tang, Lei Zhao, Zhi-Cheng He, Man-Sheng Li, Hui Zhang, Liang-Rui Zhou, Zhi-Hong Wu, Tian-Ran Li, Yun-Ping Zhu, Yu-Jie Wang, Hai-Bo Wu, Yi-Fang Ping, Xiao-Hong Yao, Chu-Hong Zhu, Hai-Tao Guo, Le-Yong Tan, Zhi-Yong Liang, Xiu-Wu Bian, Shu-Yang Zhang

*Cell Reports*, 2022, 110955

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**DIA-MS proteome analysis of formalin-fixed paraffin-embedded glioblastoma tissues**

Kenneth Weke, Sachin Kote, Jakub Faktor, Sofian Al Shboul, Naomi Uwugiaren, Paul M. Brennan, David R. Goodlett, Ted R. Hupp, Irena Dapic

*Analytica Chimica Acta Volume 1204*, 2022

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**Dynamic human liver proteome atlas reveals functional insights into disease pathways**

Lili Niu Philipp E Geyer Rajat Gupta Alberto Santos Florian Meier Sophia Doll Nicolai J Wewer Albrechtsen Sabine Klein Cristina Ortiz Frank E Uschner Robert Schierwagen Jonel Trebicka Matthias Mann

*Molecular Systems Biology* (2022)18:e10947

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**A GID E3 ligase assembly ubiquitinates an Rsp5 E3 adaptor and regulates plasma membrane transporters**

Christine R Langlois Viola Beier Ozge Karayel Jakub Chrustowicz Dawafuti Sherpa Matthias Mann Brenda A Schulman

*EMBO Reports* (2022)23:e53835

<https://www.embopress.org/doi/full/10.15252/embr.202153835>

**Discovery of efficacy biomarkers for non-small cell lung cancer with first-line anti-PD-1 immunotherapy by  data-independent acquisition mass spectrometry**

Yencheng Chao, Weipeng Jiang, Xiaocen Wang, Xiaoyue Wang, Juan Song, Cuicui Chen, Jian Zhou, Qihong Huang, Jie Hu, Yuanlin Song

*Clinical and Experimental Immunology*, Volume 208, Issue 1, April 2022, Pages 60–71

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**Proteomics Indicates Lactate Dehydrogenase Is Prognostic in Acetaminophen-Induced Acute Liver Failure Patients and Reveals Altered Signaling Pathways**

Joel H Vazquez, Stefanie Kennon-McGill, Stephanie D Byrum, Samuel G Mackintosh, Hartmut Jaeschke, D Keith Williams, William M Lee, Jonathan A Dranoff, Mitchell R McGill

*Toxicological Sciences*, Volume 187, Issue 1, May 2022, Pages 25–34

<https://academic.oup.com/toxsci/article/187/1/25/6529550?searchresult=1>

**Phosphorylation of SHP2 at Tyr62 Enables Acquired Resistance to SHP2 Allosteric Inhibitors in FLT3-ITD–Driven AML**

Anamarija Pfeiffer, Giulia Franciosa, Marie Locard-Paulet, Ilaria Piga, Kristian Reckzeh, Vidyasiri Vemulapalli, Stephen C. Blacklow, Kim Theilgaard-Mönch, Lars J. Jensen, Jesper V. Olsen

*Cancer Res* 1 June 2022; 82 (11): 2141–2155

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**Identification of Novel Cerebrospinal Fluid Biomarkers for Cognitive Decline in Aneurysmal Subarachnoid Hemorrhage: A Proteomic Approach**

Fan Liu, Yun Bao, Binghui Qiu, Jian Mao, Xixian Liao, Haorun Huang, An Zhang, Guozhong Zhang, Songtao Qi, and Fen Mei

*Front Cell Neurosci.* 2022; 16: 861425. Published online 2022 May 6.

<https://www.frontiersin.org/articles/10.3389/fncel.2022.861425/full>

**Urine Proteome in Distinguishing Hepatic Steatosis in Patients with Metabolic-Associated Fatty Liver Disease**

Chang-Hai Liu, Shanshan Zheng, Shisheng Wang, Dongbo Wu, Wei Jiang, Qingmin Zeng, Yi Wei, Yong Zhang, Hong Tang

*Diagnostics* 2022, 12(6), 1412

<https://www.mdpi.com/2075-4418/12/6/1412/htm>

**Perinatal Obesity Induces Hepatic Growth Restriction with Increased DNA Damage Response, Senescence, and Dysregulated Igf-1-Akt-Foxo1 Signaling in Male Offspring of Obese Mice**

Kasper, P.; Selle, J.; Vohlen, C.; Wilke, R.; Kuiper-Makris, C.; Klymenko, O.; Bae-Gartz, I.; Schömig, C.; Quaas, A.; Schumacher, B.; Demir, M.; Bürger, M.; Lang, S.; Martin, A.; Steffen, H.-M.; Goeser, T.; Dötsch, J.; Alcazar, M.A.A.

*Int. J. Mol. Sci.* 2022, 23, 5609

<https://www.mdpi.com/1422-0067/23/10/5609/htm>

**Conserved exchange of paralog proteins during neuronal differentiation**

Domenico Di Fraia, Mihaela Anitei, Marie-Therese Mackmull, Luca Parca, Laura Behrendt, Amparo Andres-Pons, Darren Gilmour, Manuela Helmer Citterich, Christoph Kaether, Martin Beck, Alessandro Ori

*Life Sci Alliance*. 2022 Mar 10;5(6):e202201397

<https://www.life-science-alliance.org/content/5/6/e202201397.abstract>

### **Evaluation of the Suitability of Dried Saliva Spots for In-Depth Proteome Analyses for Clinical Applications**

Hironori Sato, Daisuke Nakajima, Masaki Ishikawa, Ryo Konno, Ren Nakamura, Osamu Ohara, and Yusuke Kawashima

*Journal of Proteome Research* 2022, 21, 5, 1340-1348

<https://pubs.acs.org/doi/10.1021/acs.jproteome.2c00099>

### **Cell-Free Hemoglobin Does Not Attenuate the Effects of SARS-CoV-2 Spike Protein S1 Subunit in Pulmonary Endothelial Cells**

Jana, Sirsendu, Michael R. Heaven, and Abdu I. Alayash

*International Journal of Molecular Sciences* 22, no. 16: 9041, 2021

<https://www.mdpi.com/1422-0067/22/16/9041/htm>

### **Optimal analytical strategies for sensitive and quantitative phosphoproteomics using TMT-based multiplexing**

Koenig, C., Martinez-Val, A., Franciosa, G., & Olsen, J. V

*Proteomics*, 00, e2100245, 2022

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/pmic.202100245>

### **Compounds activating VCP D1 ATPase enhance both autophagic and proteasomal neurotoxic protein clearance**

Lidia Wrobel, Sandra M. Hill, Alvin Djajadikerta, Marian Fernandez-Estevez, Cansu Karabiyik, Avraham Ashkenazi, Victoria J. Barratt, Eleanna Stamatakou, Anders Gunnarsson, Timothy Rasmusson, Eric W. Miele, Nigel Beaton, Roland Bruderer, Yuehan Feng, Lukas Reiter, M. Paola Castaldi, Rebecca Jarvis, Keith Tan, Roland W. Bürli & David C. Rubinsztein

*Nature Communications* volume 13, Article number: 4146 (2022)

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### **Optimization of Ultrafast Proteomics Using an LC-Quadrupole-Orbitrap Mass Spectrometer with Data-Independent Acquisition**

Masaki Ishikawa, Ryo Konno, Daisuke Nakajima, Mari Gotoh, Keiko Fukasawa, Hironori Sato, Ren Nakamura, Osamu Ohara, and Yusuke Kawashima

*J. Proteome Res.* 2022

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### **Temporal resolution of gene derepression and proteome changes upon PROTAC-mediated degradation of BCL11A protein in erythroid cells**

Stuti Mehta, Altantsetseg Buyanbat, Yan Kai, Ozge Karayel, Seth Raphael Goldman, Davide Seruggia, Kevin Zhang, Yuko Fujiwara, Katherine A. Donovan, Qian Zhu, Huan Yang, Behnam Nabet, Nathanael S. Gray, Matthias Mann, Eric S. Fischer, Karen Adelman, Stuart H. Orkin  
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