

Orbitrap Fusion Lumos

Multiplexed data independent acquisition (MSX-DIA) applied by high resolution mass spectrometry improves quantification quality for the analysis of histone peptides

Simone Sidoli, Rina Fujiwara and Benjamin A. Garcia

Proteomics 2016, 00, 1–11

<http://onlinelibrary.wiley.com/doi/10.1002/pmic.201500527/abstract;jsessionid=AB5982DC50E7AF4316F00CC97265F1F2.f01t02>

Detergent-insoluble proteome analysis revealed aberrantly aggregated proteins in human preeclampsia placentas

Wanling Zhang, Xing Chen, Ziqi Yan, Yang Chen, Yizhi Cui, Bingjun Chen, Chujun Huang, Weiwen Zhang, Xingfeng Yin, Qing-Yu He, Fang He, and Tong Wang

J. Proteome Res. 2017, 16, 12, 4468–4480

<http://pubs.acs.org/doi/10.1021/acs.jproteome.7b00352>

MdFDIA: A Mass Defect Based Four-Plex Data-Independent Acquisition Strategy for Proteome Quantification

Yi Di, Ying Zhang, Lei Zhang, Tao Tao, and Haojie Lu

Anal. Chem., 2017, 89 (19), pp 10248–10255

<http://pubs.acs.org/doi/abs/10.1021/acs.analchem.7b01635?journalCode=ancham>

Comparative Analyses of Data Independent Acquisition Mass Spectrometric Approaches: DIA, WiSIM-DIA and Untargeted DIA

Frank Koopmans, Jenny T. C. Ho, August B. Smit and Ka Wan Li

PROTEOMICS Volume18, Issue1 January 2018 1700304

<http://onlinelibrary.wiley.com/doi/10.1002/pmic.201700304/full>

DIA+: A Data-Independent Acquisition Method Combining Multiple Precursor Charges to Improve Peptide Signal

Eva Borràs, and Eduard Sabidó

Anal. Chem. 2018, 90, 21, 12339–12341

<https://pubs.acs.org/doi/10.1021/acs.analchem.8b03418>

Histone serotonylation is a permissive modification that enhances TFIID binding to H3K4me3

Lorna A. Farrelly, Robert E. Thompson, Shuai Zhao, Ashley E. Lepack, Yang Lyu, Natarajan V. Bhanu, Baichao Zhang, Yong-Hwee E. Loh, Aarthi Ramakrishnan, Krishna C. Vadodaria, Kelly J. Heard, Galina Erikson, Tomoyoshi Nakadai, Ryan M. Bastle, Bradley J. Lukasak, Henry Zebroski III, Natalia Alenina, Michael Bader, Olivier Berton, Robert G. Roeder, Henrik Molina, Fred H. Gage, Li Shen, Benjamin A. Garcia, Haitao Li, Tom W. Muir & Ian Maze

Nature (2019)

<https://www.nature.com/articles/s41586-019-1024-7>

The whole transcriptome and proteome changes in the early stage of myocardial infarction

Yanfei Li, Cuiping Wang, Tingting Li, Linlin Ma, Fangzhou Fan, Yueling Jin & Junwei Shen
Cell Death Discovery volume 5, Article number: 73 (2019)
<https://www.nature.com/articles/s41420-019-0152-z>

A programmed wave of uridylation-primed mRNA degradation is essential for meiotic progression and mammalian spermatogenesis

Marcos Morgan, Yuka Kabayama, Christian Much, Ivayla Ivanova, Monica Di Giacomo, Tatsiana Auchynnikava, Jack Michael Monahan, Dimitrios Michael Vitsios, Lina Vasiliauskaitė, Stefano Comazzetto, Juri Rappsilber, Robin Campbell Allshire, Bo Torben Porse, Anton James Enright & Dónal O'Carroll
Cell Research volume 29, pages221–232 (2019)
<https://www.nature.com/articles/s41422-018-0128-1>

Comparison of Protein Quantification in a Complex Background by DIA and TMT Workflows with Fixed Instrument Time

Jan Muntel, Joanna Kirkpatrick, Roland Bruderer, Ting Huang, Olga Vitek, Alessandro Ori, and Lukas Reiter
J. Proteome Res., 2019, 18 (3), pp 1340–1351
<https://pubs.acs.org/doi/10.1021/acs.jproteome.8b00898>

Metastatic-niche labelling reveals parenchymal cells with stem features

Luigi Ombrato, Emma Nolan, Ivana Kurelac, Antranik Mavousian, Victoria Louise Bridgeman, Ivonne Heinze, Probir Chakravarty, Stuart Horswell, Estela Gonzalez-Gualda, Giulia Matacchione, Anne Weston, Joanna Kirkpatrick, Ehab Husain, Valerie Speirs, Lucy Collinson, Alessandro Ori, Joo-Hyeon Lee & Ilaria Malanchi
Nature volume 572, pages 603–608 (2019)
<https://www.nature.com/articles/s41586-019-1487-6>

Quantitative Photo-crosslinking Mass Spectrometry Revealing Protein Structure Response to Environmental Changes

Franze Muller, Andrea Graziadei and Juri Rappsilber
Anal. Chem. 2019, 91, 9041–9048
<https://pubs.acs.org/doi/10.1021/acs.analchem.9b01339>

Wiskott-Aldrich syndrome protein forms nuclear condensates and regulates alternative splicing (DIA)

Baolei Yuan, Xuan Zhou, Keiichiro Suzuki, Gerardo Ramos-Mandujano, Mengge Wang, Muhammad Tehseen, Lorena V. Cortés-Medina, James J. Moresco, Sarah Dunn, Reyna Hernandez-Benitez, Tomoaki Hishida, Na Young Kim, Manal M. Andijani, Chongwei Bi, Manching Ku, Yuta Takahashi, Jinna Xu, Jinsong Qiu, Ling Huang, Christopher Benner, Emi Aizawa, Jing Qu, Guang-Hui Liu, Zhongwei Li, Fei Yi, Yanal Ghosheh, Changwei Shao, Maxim Shokhirev, Patrizia Comoli, Francesco Frassoni, John R. Yates III, Xiang-Dong Fu, Concepcion Rodriguez Esteban, Samir Hamdan, Mo Li & Juan Carlos Izpisua Belmonte Show fewer authors
Nature Communications volume 13, Article number: 3646 (2022)

<https://www.nature.com/articles/s41467-022-31220-8>

Hypoxia shapes the immune landscape in lung injury and promotes the persistence of inflammation

Ananda S. Mirchandani, Stephen J. Jenkins, Calum C. Bain, Manuel A. Sanchez-Garcia, Hannah Lawson, Patricia Coelho, Fiona Murphy, David M. Griffith, Ailiang Zhang, Tyler Morrison, Tony Ly, Simone Arienti, Pranvera Sadiku, Emily R. Watts, Rebecca S. Dickinson, Leila Reyes, George Cooper, Sarah Clark, David Lewis, Van Kelly, Christos Spanos, Kathryn M. Musgrave, Liam Delaney, Isla Harper, Jonathan Scott, Nicholas J. Parkinson, Anthony J. Rostron, J. Kenneth Baillie, Sara Clohisey, Clare Pridans, Lara Campana, Philip Starkey Lewis, A. John Simpson, David H. Dockrell, Jürgen Schwarze, Nikhil Hirani, Peter J. Ratcliffe, Christopher W. Pugh, Kamil Kranc, Stuart J. Forbes, Moira K. B. Whyte & Sarah R. Walmsley

Nature Immunology volume 23, pages927–939 (2022)

<https://www.nature.com/articles/s41590-022-01216-z>

ADH1C inhibits progression of colorectal cancer through the ADH1C/PHGDH /PSAT1/serine metabolic pathway

Sha Li, Hong Yang, Wan Li, Jin-yi Liu, Li-wen Ren, Yi-hui Yang, Bin-bin Ge, Yi-zhi Zhang, Wei-qi Fu, Xiang-jin Zheng, Guan-hua Du & Jin-Hua Wang

Acta Pharmacologica Sinica (2022)

<https://www.nature.com/articles/s41401-022-00894-7>

Morphine-induced modulation of Nrf2-antioxidant response element signaling pathway in primary human brain microvascular endothelial cells

Sandrine Reymond, Tatjana Vujić, Domitille Schvartz & Jean-Charles Sanchez

Scientific Reports volume 12, Article number: 4588 (2022)

<https://www.nature.com/articles/s41598-022-08712-0>

Stress vulnerability shapes disruption of motor cortical neuroplasticity

Anne-Kathrin Gellner, Aileen Sitter, Michal Rackiewicz, Marc Sylvester, Alexandra Philipsen, Andreas Zimmer & Valentin Stein

Translational Psychiatry volume 12, Article number: 91 (2022)

<https://www.nature.com/articles/s41398-022-01855-8>

Depletion of mitochondrial methionine adenosyltransferase α 1 triggers mitochondrial dysfunction in alcohol-associated liver disease

Lucía Barbier-Torres, Ben Murray, Jin Won Yang, Jiaohong Wang, Michitaka Matsuda, Aaron Robinson, Aleksandra Binek, Wei Fan, David Fernández-Ramos, Fernando Lopitz-Otsoa, Maria Luque-Urbano, Oscar Millet, Nirmala Mavila, Hui Peng, Komal Ramani, Roberta Gottlieb, Zhaoli Sun, Suthat Liangpunsakul, Ekihiro Seki, Jennifer E. Van Eyk, Jose M. Mato & Shelly C. Lu

Nature Communications volume 13, Article number: 557 (2022)

<https://www.nature.com/articles/s41467-022-28201-2>

Pyroptosis inhibition improves the symptom of acute myocardial infarction

Wenju Liu, Junwei Shen, Yanfei Li, Jiawen Wu, Xiaoli Luo, Yuanyuan Yu, Yuhan Zhang, Liang Gu, Xiaobai Zhang, Cizhong Jiang & Jue Li

Cell Death & Disease volume 12, Article number: 852 (2021)

<https://www.nature.com/articles/s41419-021-04143-3>

Paraquat-induced cholesterol biosynthesis proteins dysregulation in human brain microvascular endothelial cells

Vujić Tatjana, Schvartz Domitille & Sanchez Jean-Charles

Scientific Reports volume 11, Article number: 18137 (2021)

<https://www.nature.com/articles/s41598-021-97175-w>

MaxDIA enables library-based and library-free data-independent acquisition proteomics

Pavel Sinitcyn, Hamid Hamzeiy, Favio Salinas Soto, Daniel Itzhak, Frank McCarthy, Christoph Wichmann, Martin Steger, Uli Ohmayer, Ute Distler, Stephanie Kaspar-Schoenefeld, Nikita Prianichnikov, Şule Yilmaz, Jan Daniel Rudolph, Stefan Tenzer, Yasset Perez-Riverol, Nagarjuna Nagaraj, Sean J. Humphrey & Jürgen Cox

Nature Biotechnology volume 39, pages1563–1573 (2021)

<https://www.nature.com/articles/s41587-021-00968-7>

SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care

Clemens Gutmann, Kaloyan Takov, Sean A. Burnap, Bhawana Singh, Hashim Ali, Konstantinos Theofilatos, Ella Reed, Maria Hasman, Adam Nabeebaccus, Matthew Fish, Mark JW. McPhail, Kevin O’Gallagher, Lukas E. Schmidt, Christian Cassel, Marieke Rienks, Xiaoke Yin, Georg Auzinger, Salvatore Napoli, Salma F. Mujib, Francesca Trovato, Barnaby Sanderson, Blair Merrick, Umar Niazi, Mansoor Saqi, Konstantina Dimitrakopoulou, Rafael Fernández-Leiro, Silke Braun, Romy Kronstein-Wiedemann, Katie J. Doores, Jonathan D. Edgeworth, Ajay M. Shah, Stefan R. Bornstein, Torsten Tonn, Adrian C. Hayday, Mauro Giacca, Manu Shankar-Hari & Manuel Mayr

Nature Communications volume 12, Article number: 3406 (2021)

<https://www.nature.com/articles/s41467-021-23494-1>

A data-independent acquisition-based global phosphoproteomics system enables deep profiling

Reta Birhanu Kitata, Wai-Kok Choong, Chia-Feng Tsai, Pei-Yi Lin, Bo-Shiun Chen, Yun-Chien Chang, Alexey I. Nesvizhskii, Ting-Yi Sung & Yu-Ju Chen

Nature Communications volume 12, Article number: 2539 (2021)

<https://www.nature.com/articles/s41467-021-22759-z>

ACOX2 is a prognostic marker and impedes the progression of hepatocellular carcinoma via PPAR α pathway

Qifan Zhang, Yunbin Zhang, Shibo Sun, Kai Wang, Jianping Qian, Zhonglin Cui, Tao Tao & Jie Zhou

Cell Death & Disease volume 12, Article number: 15 (2021)

<https://www.nature.com/articles/s41419-020-03291-2>

Quantitative shotgun proteome analysis by direct infusion

Jesse G. Meyer, Natalie M. Niemi, David J. Pagliarini & Joshua J. Coon

Nature Methods volume 17, pages1222–1228 (2020)

<https://www.nature.com/articles/s41592-020-00999-z>

Loss of metabolic plasticity underlies metformin toxicity in aged *Caenorhabditis elegans*

Lilia Espada, Alexander Dakhovnik, Prerana Chaudhari, Asya Martirosyan, Laura Miek, Tetiana Poliezhaieva, Yvonne Schaub, Ashish Nair, Nadia Döring, Norman Rahnis, Oliver Werz, Andreas Koeberle, Joanna Kirkpatrick, Alessandro Ori & Maria A. Ermolaeva

Nature Metabolism volume 2, pages1316–1331 (2020)

<https://www.nature.com/articles/s42255-020-00307-1>

Vulnerability of progeroid smooth muscle cells to biomechanical forces is mediated by MMP13

Patricia R. Pitrez, Luís Estronca, Luís Miguel Monteiro, Guillem Colell, Helena Vazão, Deolinda Santinha, Karim Harhour, Daniel Thornton, Claire Navarro, Anne-Laure Egesipe, Tânia Carvalho, Rodrigo L. Dos Santos, Nicolas Lévy, James C. Smith, João Pedro de Magalhães, Alessandro Ori, Andreia Bernardo, Annachiara De Sandre-Giovannoli, Xavier Nissan, Anna Rosell & Lino Ferreira

Nature Communications volume 11, Article number: 4110 (2020)

<https://www.nature.com/articles/s41467-020-17901-2>

Metaproteomics characterizes human gut microbiome function in colorectal cancer

Shuping Long, Yi Yang, Chengpin Shen, Yiwen Wang, Anmei Deng, Qin Qin & Liang Qiao

npj Biofilms and Microbiomes volume 6, Article number: 14 (2020)

<https://www.nature.com/articles/s41522-020-0123-4>

ChromID identifies the protein interactome at chromatin marks

Rodrigo Villaseñor, Ramon Pfaendler, Christina Ambrosi, Stefan Butz, Sara Giuliani, Elana Bryan, Thomas W. Sheahan, Annika L. Gable, Nina Schmolka, Massimiliano Manzo, Joël Wirz, Christian Feller, Christian von Mering, Ruedi Aebersold, Philipp Voigt & Tuncay Baubec

Nature Biotechnology volume 38, pages728–736 (2020)

<https://www.nature.com/articles/s41587-020-0434-2>

Comprehensive draft of the mouse embryonic fibroblast lysosomal proteome by mass spectrometry based proteomics

Srigayatri Ponnaiyan, Fatema Akter, Jasjot Singh & Dominic Winter

Scientific Data volume 7, Article number: 68 (2020)

<https://www.nature.com/articles/s41597-020-0399-5>

Metastatic-niche labelling reveals parenchymal cells with stem features

Luigi Ombrato, Emma Nolan, Ivana Kurelac, Antranik Mavousian, Victoria Louise Bridgeman, Ivonne Heinze, Probir Chakravarty, Stuart Horswell, Estela Gonzalez-Gualda, Giulia Maticchione, Anne Weston, Joanna Kirkpatrick, Ehab Husain, Valerie Speirs, Lucy Collinson, Alessandro Ori, Joo-Hyeon Lee & Ilaria Malanchi

Nature volume 572, pages603–608 (2019)

<https://www.nature.com/articles/s41586-019-1487-6>

The whole transcriptome and proteome changes in the early stage of myocardial infarction

Yanfei Li, Cuiping Wang, Tingting Li, Linlin Ma, Fangzhou Fan, Yueling Jin & Junwei Shen

Cell Death Discovery volume 5, Article number: 73 (2019)

<https://www.nature.com/articles/s41420-019-0152-z>

Metabolic responsiveness to training depends on insulin sensitivity and protein content of exosomes in insulin-resistant males

Maria Apostolopoulou, Lucia Mastrototaro, Sonja Hartwig, Dominik Pesta, Klaus Straßburger, Elisabetta de Filippo, Tomas Jelenik, Yanislava Karusheva, Sofiya Gancheva, Daniel Markgraf, Christian Herder, K. Sreekumaran Nair, Andreas S. Reichert, Stefan Lehr, Karsten Müssig, Hadi Al-Hasani, Julia Szendroedi, Michael Roden

SCIENCE ADVANCES 8 Oct 2021 Vol 7, Issue 41

<https://www.science.org/doi/10.1126/sciadv.abi9551>

Deciphering key regulators of *Inonotus hispidus* petroleum ether extract involved in anti-tumor through whole transcriptome and proteome analysis in H22 tumor-bearing mice model

Zhijun Li, Haiying Bao

Journal of Ethnopharmacology, Volume 296, 2022, 115468

<https://www.sciencedirect.com/science/article/pii/S0378874122005074>

Comprehensive proteomic analysis to elucidate the anti-heat stress effects of nano-selenium in rainbow trout (*Oncorhynchus mykiss*)

Lanlan Li, Zhe Liu, Jinqiang Quan, Jun Sun, Junhao Lu, Guiyan Zhao

Ecotoxicology and Environmental Safety, Volume 241, 2022, 113736

<https://www.sciencedirect.com/science/article/pii/S0147651322005760>

Modulation and proteomic changes on the heme pathway following treatment with 5-aminolevulinic acid

Sara Sansaloni-Pastor, Emmanuel Varesio, Norbert Lange

Journal of Photochemistry and Photobiology B: Biology, Volume 233, 2022, 112484

<https://www.sciencedirect.com/science/article/pii/S1011134422000987>

Inhibition of nuclear deacetylase Sirtuin-1 induces mitochondrial acetylation and calcium overload leading to cell death

Yue Sun, Yan-Ming Yang, Yu-Yu Hu, Lan Ouyang, Zheng-Hua Sun, Xing-Feng Yin, Nan Li, Qing-Yu He, Yang Wang

Redox Biology, Volume 53, 2022, 102334

<https://www.sciencedirect.com/science/article/pii/S2213231722001069>

The heart-brain axis: A proteomics study of meditation on the cardiovascular system of Tibetan Monks

Ting Xue, Benjamin Chiao, Tianjiao Xu, Han Li, Kai Shi, Ying Cheng, Yuan Shi, Xiaoli Guo, Shanbao Tong, Menglin Guo, Soo Hong Chew, Richard P. Ebstein, Donghong Cui

eBioMedicine, Volume 80, 2022, 104026

<https://www.sciencedirect.com/science/article/pii/S2352396422002109>

The crosstalk signals of Sodium Tanshinone II A Sulfonate in rats with cerebral ischemic stroke: Insights from proteomics

Zheyi Wang, Yize Sun, Lihua Bian, Yiling Zhang, Yue Zhang, Chunguo Wang, Jinzhou Tian, Tao Lu

Biomedicine & Pharmacotherapy, Volume 151, 2022, 113059

<https://www.sciencedirect.com/science/article/pii/S0753332222004486>

A data-independent acquisition (DIA)-based quantification workflow for proteome analysis of 5000 cells

Na Jiang, Yan Gao, Jia Xu, Fengting Luo, Xiangyang Zhang, Ruibing Chen

Journal of Pharmaceutical and Biomedical Analysis, Volume 216, 2022, 114795

<https://www.sciencedirect.com/science/article/pii/S0731708522002163>

Phosphoproteomics reveals that camel and goat milk improve glucose homeostasis in HDF/STZ-induced diabetic rats through activation of hepatic AMPK and GSK3-GYS axis

Binsong Han, Lina Zhang, Yanmei Hou, Jinjing Zhong, Kasper Hettinga, Peng Zhou

Food Research International, Volume 157, 2022, 111254

<https://www.sciencedirect.com/science/article/pii/S0963996922003118>

Comprehensive proteomic profiling of plasma and serum phosphatidylserine-positive extracellular vesicles reveals tissue-specific proteins

Satoshi Muraoka, Masayo Hirano, Junko Isoyama, Satoshi Nagayama, Takeshi Tomonaga, Jun Adachi

iScience, Volume 25, Issue 4, 2022, 104012

<https://www.sciencedirect.com/science/article/pii/S2589004222002826>

MSSort-DIAXMBD: A deep learning classification tool of the peptide precursors quantified by OpenSWATH

Yiming Li, Qingzu He, Huan Guo, Chuan-Qi Zhong, Xiang Li, Yulin Li, Jiahuai Han, Jianwei Shuai

Journal of Proteomics, Volume 259, 2022, 104542

<https://www.sciencedirect.com/science/article/pii/S1874391922000653>

96DRA-Urine: A high throughput sample preparation method for urinary proteome analysis

Xiaoyue Tang, Xiaoping Xiao, Haidan Sun, Shuxin Zheng, Xiaolian Xiao, Zhengguang Guo, Xiaoyan Liu, Wei Sun

Journal of Proteomics, Volume 257, 2022, 104529

<https://www.sciencedirect.com/science/article/pii/S1874391922000525>

Whole-genome sequencing of *Cryptococcus podzolicus* Y3 and data-independent acquisition-based proteomic analysis during OTA degradation

Meilin Wei, Solairaj Dhanasekaran, Esa Abiso Godana, Qiya Yang, Yuan Sui, Xiaoyun Zhang, Guillaume Legrand Ngolong Ngea, Hongyin Zhang

Food Control, Volume 136, 2022, 108862

<https://www.sciencedirect.com/science/article/pii/S095671352200055X>

Proteomic identification of proliferation and progression markers in human polycythemia vera stem and progenitor cells

Ge Tan, Witold E. Wolski, Sandra Kummer, Mara Hofstetter, Alexandre P.A. Theocharides, Markus G. Manz, Ruedi Aebersold, Fabienne Meier-Abt

Blood Advances, Volume 6, Issue 11, 2022, Pages 3480-3493

<https://www.sciencedirect.com/science/article/pii/S2473952922000325>

Dynamic urine proteome changes in a rat model of simvastatin-induced skeletal muscle injury

Jing Wei, Yuhang Huan, Ziqi Heng, Chenyang Zhao, Lulu Jia, Yuncui Yu, Youhe Gao

Journal of Proteomics, Volume 254, 2022, 104477

<https://www.sciencedirect.com/science/article/pii/S1874391921003766>

MAL2 mediates the formation of stable HER2 signaling complexes within lipid raft-rich membrane protrusions in breast cancer cells

Jaekwang Jeong, Jae Hun Shin, Wenxue Li, Jun Young Hong, Jaechul Lim, Jae Yeon Hwang, Jean-Ju Chung, Qin Yan, Yansheng Liu, Jungmin Choi, John Wysolmerski

Cell Reports, Volume 37, Issue 13, 2021, 110160

<https://www.sciencedirect.com/science/article/pii/S2211124721016569>

Caffeic acid phenethyl ester protects against doxorubicin-induced cardiotoxicity and increases chemotherapeutic efficacy by regulating the unfolded protein response

Ying Zhang, Dezhi Kong, Han Han, YongJun Cao, HongXuan Zhu, Guozhen Cui

Food and Chemical Toxicology, Volume 159, 2022, 112770

<https://www.sciencedirect.com/science/article/pii/S0278691521008036>

Quantitative subcellular acyl-CoA analysis reveals distinct nuclear metabolism and isoleucine-dependent histone propionylation

Sophie Trefely, Katharina Huber, Joyce Liu, Michael Noji, Stephanie Stransky, Jay Singh, Mary T. Doan, Claudia D. Lovell, Eliana von Krusenstiern, Helen Jiang, Anna Bostwick, Hannah L. Pepper, Luke Izzo, Steven Zhao, Jimmy P. Xu, Kenneth C. Bedi, J. Eduardo Rame, Juliane G. Bogner-Strauss, Clementina Mesaros, Simone Sidoli, Kathryn E. Wellen, Nathaniel W. Snyder
Molecular Cell, Volume 82, Issue 2, 2022, Pages 447-462.e6

<https://www.sciencedirect.com/science/article/pii/S1097276521009564>

Formation of resting cells is accompanied with enrichment of ferritin in marine diatom *Phaeodactylum tricornutum*

Xuehua Liu, Lijun Wang, Songcui Wu, Lu Zhou, Shan Gao, Xiujun Xie, Lepu Wang, Wenhui Gu, Guangce Wang

Algal Research, Volume 61, 2022, 102567

<https://www.sciencedirect.com/science/article/pii/S2211926421003866>

Isoform-resolved correlation analysis between mRNA abundance regulation and protein level degradation

Barbora Salovska Hongwen Zhu Tejas Gandhi Max Frank Wenxue Li George Rosenberger Chongde Wu Pierre-Luc Germain Hu Zhou Zdenek Hodny Lukas Reiter Yansheng Liu
Molecular Systems Biology (2020)16:e9170

<https://www.embopress.org/doi/full/10.15252/msb.20199170>

R2-P2 rapid-robotic phosphoproteomics enables multidimensional cell signaling studies

Mario Leutert Ricard A Rodríguez-Mias Noelle K Fukuda Judit Villén
Molecular Systems Biology (2019)15:e9021

<https://www.embopress.org/doi/full/10.15252/msb.20199021>

Comparative proteomics analysis reveals the molecular mechanism of enhanced cold tolerance through ROS scavenging in winter rapeseed (*Brassica napus* L.)

Wenbo Mi, Zigang Liu, Jiaojiao Jin, Xiaoyun Dong, Chunmei Xu, Ya Zou, Mingxia Xu, Guoqiang Zheng, Xiaodong Cao, Xinling Fang, Caixia Zhao, Chao Mi
PLOS ONE 16(1): e0243292 2021

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0243292>

Transcriptomic, proteomic, metabolomic, and functional genomic approaches of *Brassica napus* L. during salt stress

Jiabin Shu, Xiao Ma, Hua Ma, Qiurong Huang, Ye Zhang, Mei Guan, Chunyun Guan
PLOS ONE 17(3): e0262587 2022

<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0262587>

Cross-compartment signal propagation in the mitotic exit network

Xiaoxue Zhou, Wenxue Li, Yansheng Liu, Angelika Amon

eLife 10:e63645., 2021

<https://elifesciences.org/articles/63645>

Proteome Analysis of Urinary Biomarkers in a Bovine IRBP-Induced Uveitis Rat Model via Data-Independent Acquisition and Parallel Reaction Monitoring Proteomics

Qin Weiwei, Qin Xuyan, Li Lujun, Gao Youhe

Frontiers in Molecular Biosciences, 9, 2022

<https://www.frontiersin.org/article/10.3389/fmolb.2022.831632>

Brain Proteomic Profiling in Intractable Epilepsy Caused by TSC1 Truncating Mutations: A Small Sample Study

Liu Yi-Dan, Ma Meng-Yu, Hu Xi-Bin, Yan Huan, Zhang Yan-Ke, Yang Hao-Xiang, Feng Jing-Hui, Wang Lin, Zhang Hao, Zhang Bin, Li Qiu-Bo, Zhang Jun-Chen, Kong Qing-Xia

Frontiers in Neurology, 11, 2020

<https://www.frontiersin.org/article/10.3389/fneur.2020.00475>

Cerebrospinal Fluid-Derived Microvesicles From Sleeping Sickness Patients Alter Protein Expression in Human Astrocytes

Dozio Vito, Lejon Veerle, Mumba Ngoyi Dieudonné, Büscher Philippe, Sanchez Jean-Charles, Tiberti Natalia

Frontiers in Cellular and Infection Microbiology, 9, 2019

<https://www.frontiersin.org/article/10.3389/fcimb.2019.00391>

Multifaceted Stoichiometry Control of Bacterial Operons Revealed by Deep Proteome Quantification

Zhao Jing, Zhang Hong, Qin Bo, Nikolay Rainer, He Qing-Yu, Spahn Christian M. T., Zhang Gong

Frontiers in Genetics 10, 2019

<https://www.frontiersin.org/article/10.3389/fgene.2019.00473>

Impact of the Glycemic Level on the Salivary Proteome of Middle-Aged and Elderly People With Type 2 Diabetes Mellitus: An Observational Study

Jia Shu Yuan, Zhang Yan Ling, Sun Xiang Yu, Yuan Chao, Zheng Shu Guo

Frontiers in Molecular Biosciences 8, 2021

<https://www.frontiersin.org/article/10.3389/fmolb.2021.790091>

A Combined Transcriptomic and Proteomic Approach to Reveal the Effect of Mogroside V on OVA-Induced Pulmonary Inflammation in Mice

Dou Tong, Wang Juan, Liu Yisa, Jia Jiangang, Zhou Luwei, Liu Guoxiang, Li Xiaojuan, Han Mengjie, Lin Jiaxun, Huang Fengxiang, Chen Xu

Frontiers in Immunology 13, 2022

<https://www.frontiersin.org/article/10.3389/fimmu.2022.800143>

Protein Phosphorylation Changes During Systemic Acquired Resistance in *Arabidopsis thaliana*

Zhou Qingfeng, Meng Qi, Tan Xiaomin, Ding Wei, Ma Kang, Xu Ziqin, Huang Xuan, Gao Hang
Frontiers in Plant Science 12, 2021

<https://www.frontiersin.org/article/10.3389/fpls.2021.748287>

Molecular Characterization of Advanced Colorectal Cancer Using Serum Proteomics and Metabolomics

Rao Jun, Wan Xianghui, Tou Fangfang, He Qinsi, Xiong Aihua, Chen Xinyi, Cui Wenhao, Zheng Zhi
Frontiers in Molecular Biosciences 8, 2021

<https://www.frontiersin.org/article/10.3389/fmolb.2021.687229>

Comparative Proteomic Analysis Reveals the Ascorbate Peroxidase-Mediated Plant Resistance to *Verticillium dahliae* in *Gossypium barbadense*

Lu Tianxin, Zhu Liping, Liang Yuxuan, Wang Fei, Cao Aiping, Xie Shuangquan, Chen Xifeng, Shen Haitao, Wang Beini, Hu Man, Li Rong, Jin Xiang, Li Hongbin
Frontiers in Plant Science 13, 2022

<https://www.frontiersin.org/article/10.3389/fpls.2022.877146>

Human Cerebral Cortex Proteome of Fragile X-Associated Tremor/Ataxia Syndrome

Holm Katharine Nichole, Herren Anthony W., Taylor Sandra L., Randol Jamie L., Kim Kyoungmi, Espinal Glenda, Martínez-Cerdeño Verónica, Pessah Isaac N., Hagerman Randi J., Hagerman Paul J.

Frontiers in Molecular Biosciences 7, 2021

<https://www.frontiersin.org/article/10.3389/fmolb.2020.600840>

Comparative Transcriptomics and Proteomics Analyses of Leaves Reveals a Freezing Stress-Responsive Molecular Network in Winter Rapeseed (*Brassica rapa* L.)

Wei Jiaping, Zheng Guoqiang, Yu Xingwang, Liu Sushuang, Dong Xiaoyun, Cao Xiaodong, Fang Xinling, Li Hui, Jin Jiaojiao, Mi Wenbo, Liu Zigang

Frontiers in Plant Science 12, 2021

<https://www.frontiersin.org/article/10.3389/fpls.2021.664311>

Correlation Analysis Between Trace Elements and Colorectal Cancer Metabolism by Integrated Serum Proteome and Metabolome

Zheng Zhi, Wei Qingfeng, Wan Xianghui, Zhong Xiaoming, Liu Lijuan, Zeng Jiquan, Mao Lihua, Han Xiaojian, Tou Fangfang, Rao Jun

Frontiers in Immunology 13, 2022

<https://www.frontiersin.org/article/10.3389/fimmu.2022.921317>

A Key Silencing Histone Mark on Chromatin Is Lost When Colorectal Adenocarcinoma Cells Are Depleted of Methionine by Methionine γ -Lyase

Raboni Samanta, Montalbano Serena, Stransky Stephanie, Garcia Benjamin A., Buschini Annamaria, Bettati Stefano, Sidoli Simone, Mozzarelli Andrea
Frontiers in Molecular Biosciences 8, 2021

<https://www.frontiersin.org/article/10.3389/fmolb.2021.735303>

Comprehensive Analysis of E3 Ubiquitin Ligases Reveals Ring Finger Protein 223 as a Novel Oncogene Activated by KLF4 in Pancreatic Cancer

Feng Lei, Wang Jieqing, Zhang Jianmin, Diao Jingfang, He Longguang, Fu Chaoyi, Liao Hui, Xu Xiaoping, Gao Yi, Zhou Chenjie
Frontiers in Cell and Developmental Biology 9, 2021

<https://www.frontiersin.org/articles/10.3389/fcell.2021.738709>

Combined Transcriptome and Proteome Analysis of Anthers of AL-type Cytoplasmic Male Sterile Line and Its Maintainer Line Reveals New Insights into Mechanism of Male Sterility in Common Wheat

Hao Miaomiao, Yang Wenlong, Li Tingdong, Shoaib Muhammad, Sun Jiazhu, Liu Dongcheng, Li Xin, Nie Yingbin, Tian Xiaoming, Zhang Aimin
Frontiers in Genetics 12, 2021

<https://www.frontiersin.org/articles/10.3389/fgene.2021.762332>

Mitochondrial Inorganic Polyphosphate (polyP) Is a Potent Regulator of Mammalian Bioenergetics in SH-SY5Y Cells: A Proteomics and Metabolomics Study

Guitart-Mampel Mariona, Urquiza Pedro, Carnevale Neto Fausto, Anderson James R., Hambardikar Vedangi, Scoma Ernest R., Merrihew Gennifer E., Wang Lu, MacCoss Michael J., Raftery Daniel, Peffers Mandy J., Solesio Maria E.
Frontiers in Cell and Developmental Biology 10, 2022

<https://www.frontiersin.org/articles/10.3389/fcell.2022.833127>

Urinary Proteomics Analysis of Active Vitiligo Patients: Biomarkers for Steroid Treatment Efficacy Prediction and Monitoring

Qian Yue-Tong, Liu Xiao-Yan, Sun Hai-Dan, Xu Ji-Yu, Sun Jia-Meng, Liu Wei, Chen Tian, Liu Jia-Wei, Tan Yan, Sun Wei, Ma Dong-Lai
Frontiers in Molecular Biosciences 9, 2022

<https://www.frontiersin.org/articles/10.3389/fmolb.2022.761562>

Effects of Multispecies Probiotic on Intestinal Microbiota and Mucosal Barrier Function of Neonatal Calves Infected With E. coli K99

Wu Yanyan, Nie Cunxi, Luo Ruiqing, Qi Fenghua, Bai Xue, Chen Hongli, Niu Junli, Chen Chen, Zhang Wenju

Frontiers in Microbiology 12, 2022

<https://www.frontiersin.org/articles/10.3389/fmicb.2021.813245>

Multi-Omic Profiling of Multi-Biosamples Reveals the Role of Amino Acid and Nucleotide Metabolism in Endometrial Cancer

Yi Runqiu, Xie Liying, Wang Xiaoqing, Shen Chengpin, Chen Xiaojun, Qiao Liang

Frontiers in Oncology 12, 2022

<https://www.frontiersin.org/articles/10.3389/fonc.2022.861142>

A Proteome-Level Investigation Into Plasmodiophora brassicae Resistance in Brassica napus Canola (BoxCar DIA)

Adhikary Dinesh, Mehta Devang, Uhrig R. Glen, Rahman Habibur, Kav Nat N. V.

Frontiers in Plant Science 13, 2022

<https://www.frontiersin.org/articles/10.3389/fpls.2022.860393>

Proteomic Analysis of Human Follicular Fluid Reveals the Pharmacological Mechanisms of the Chinese Patent Drug Kunling Pill for Improving Diminished Ovarian Reserve

Haiyan Wang, Dan Cao, Meixian Wang, Yanbin Shi, Bowen Wei, Shiyuan Jiang, Yangyu Jiang, Hui Lian, Xiaouu Xue, Zhiqiang Ma, and Jian Li

Evidence-Based Complementary and Alternative Medicine / 2022

<https://www.hindawi.com/journals/ecam/2022/5929694/>

Transcriptomics Coupled to Proteomics Reveals Novel Targets for the Protective Role of Spermine in Diabetic Cardiomyopathy

Can Wei, Tao Song, Hui Yuan, Xiaoxue Li, Xinying Zhang, Xiao Liang, and Ying Fan

Oxidative Medicine and Cellular Longevity / 2022

<https://www.hindawi.com/journals/omcl/2022/5909378/>

The Investigation of Protein Profile and Meat Quality in Bovine Longissimus thoracic Frozen under Different Temperatures by Data-Independent Acquisition (DIA) Strategy

Li, Xia, Shuyi Qian, Feng Huang, Kaimin Li, Yu Song, Jiqian Liu, Yujie Guo, Chunhui Zhang, and Christophe Blecker

Foods 11, no. 12: 1791, 2022

<https://www.mdpi.com/2304-8158/11/12/1791/htm>

Targeted Quantification of the Lysosomal Proteome in Complex Samples

Mosen, Peter, Anne Sanner, Jasjot Singh, and Dominic Winter

Proteomes 9, no. 1: 4, 2021

<https://www.mdpi.com/2227-7382/9/1/4/htm>

Narrow Precursor Mass Range for DIA–MS Enhances Protein Identification and Quantification in Arabidopsis

Zhang, Huoming, and Dalila Bensaddek

Life 11, no. 9: 982, 2021

<https://www.mdpi.com/2075-1729/11/9/982/htm>

Transcriptome and proteome analysis of oviposition- and spermatogenesis-related genes of *Diaphorina citri*

Hailin Li, Xiaoyun Wang, Xialin Zheng, Zishu Dong, Xiaolong Yi, Wen Lu

Animal Gene, Volume 23, 2022, 200120

<https://www.sciencedirect.com/science/article/pii/S2352406521000105>

Metabolic Enzyme Alterations and Astrocyte Dysfunction in a Murine Model of Alexander Disease With Severe Reactive Gliosis

Michael R. Heaven, Anthony W. Herren, Daniel L. Flint, Natasha L. Pacheco, Jiangtao Li, Alice Tang, Fatima Khan, James E. Goldman, Brett S. Phinney, Michelle L. Olsen

Molecular & Cellular Proteomics, Volume 21, Issue 1, 2022, 100180

<https://www.sciencedirect.com/science/article/pii/S1535947621001523>

HDL proteome remodeling associates with COVID-19 severity

Douglas Ricardo Souza Junior, Amanda Ribeiro Martins Silva, Livia Rosa-Fernandes, Lorena Rocha Reis, Gabrielly Alexandria, Santosh D. Bhosale, Fabio de Rose Ghilardi, Talia Falcão Dalçóquio, Adriadne Justi Bertolin, José Carlos Nicolau, Claudio R.F. Marinho, Carsten Wrenger, Martin R. Larsen, Rinaldo Focaccia Siciliano, Paolo Di Mascio, Giuseppe Palmisano, Graziella Eliza Ronsein

Journal of Clinical Lipidology, Volume 15, Issue 6, 2021, Pages 796-804

<https://www.sciencedirect.com/science/article/pii/S1933287421002567>

Physiological and Proteomic Analyses Reveal Effects of Putrescine-Alleviated Aluminum Toxicity in Rice Roots

Zhu Chunquan, Hu Wenjun, Cao Xiaochuang, Zhu Lianfeng, Kong Yali, Jin Qianyu, Shen Guoxin, Wang Weipeng, Zhang Hui, Zhang Junhua

Rice Science, Volume 28, Issue 6, 2021, Pages 579-593

<https://www.sciencedirect.com/science/article/pii/S1672630821000883>

Proteogenomic characterization of pancreatic ductal adenocarcinoma

Liwei Cao, Chen Huang, Daniel Cui Zhou, Yingwei Hu, T. Mamie Lih, Sara R. Savage, Karsten Krug, David J. Clark, Michael Schnaubelt, Lijun Chen, Felipe da Veiga Leprevost, Rodrigo Vargas Eguez, Weiming Yang, Jianbo Pan, Bo Wen, Yongchao Dou, Wen Jiang, Yuxing Liao, Zhiao Shi, Nadezhda V. Terekhanova, Song Cao, Rita Jui-Hsien Lu, Yize Li, Ruiyang Liu, Houxiang Zhu, Peter

Ronning, Yige Wu, Matthew A. Wyczalkowski, Hariharan Easwaran, Ludmila Danilova, Arvind Singh Mer, Seungyeul Yoo, Joshua M. Wang, Wenke Liu, Benjamin Haibe-Kains, Mathangi Thiagarajan, Scott D. Jewell, Galen Hostetter, Chelsea J. Newton, Qing Kay Li, Michael H. Roehrl, David Fenyö, Pei Wang, Alexey I. Nesvizhskii, D.R. Mani, Gilbert S. Omenn, Emily S. Boja, Mehdi Mesri, Ana I. Robles, Henry Rodriguez, Oliver F. Bathe, Daniel W. Chan, Ralph H. Hruban, Li Ding, Bing Zhang, Hui Zhang, Mitual Amin, Eunkyung An, Christina Ayad, Thomas Bauer, Chet Birger, Michael J. Birrer, Simina M. Boca, William Bocik, Melissa Borucki, Shuang Cai, Steven A. Carr, Sandra Cerda, Huan Chen, Steven Chen, David Chesla, Arul M. Chinnaiyan, Antonio Colaprico, Sandra Cottingham, Magdalena Derejska, Saravana M. Dhanasekaran, Marcin J. Domagalski, Brian J. Druker, Elizabeth Duffy, Maureen A. Dyer, Nathan J. Edwards, Matthew J. Ellis, Jennifer Eschbacher, Alicia Francis, Jesse Francis, Stacey Gabriel, Nikolay Gabrovski, Johanna Gardner, Gad Getz, Michael A. Gillette, Charles A. Goldthwaite, Pamela Grady, Shuai Guo, Pushpa Hariharan, Tara Hiltke, Barbara Hindenach, Katherine A. Hoadley, Jasmine Huang, Corbin D. Jones, Karen A. Ketchum, Christopher R. Kinsinger, Jennifer M. Koziak, Katarzyna Kusnierz, Tao Liu, Jiang Long, David Mallery, Sailaja Mareedu, Ronald Matteotti, Nicollette Maunganidze, Peter B. McGarvey, Parham Minoo, Oxana V. Paklina, Amanda G. Paulovich, Samuel H. Payne, Olga Potapova, Barbara Pruetz, Liqun Qi, Nancy Roche, Karin D. Rodland, Daniel C. Rohrer, Eric E. Schadt, Alexey V. Shabunin, Troy Shelton, Yvonne Shutack, Shilpi Singh, Michael Smith, Richard D. Smith, Lori J. Sokoll, James Suh, Ratna R. Thangudu, Shirley X. Tsang, Ki Sung Um, Dana R. Valley, Negin Vatanian, Wenyi Wang, George D. Wilson, Maciej Wiznerowicz, Zhen Zhang, Grace Zhao

Cell, Volume 184, Issue 19, 2021, Pages 5031-5052.e26

<https://www.sciencedirect.com/science/article/pii/S0092867421009971>

Bioengineered miR-124-3p prodrug selectively alters the proteome of human carcinoma cells to control multiple cellular components and lung metastasis in vivo

Linglong Deng, Hannah Petrek, Mei-Juan Tu, Neelu Batra, Ai-Xi Yu, Ai-Ming Yu

Acta Pharmaceutica Sinica B, Volume 11, Issue 12, 2021, Pages 3950-3965

<https://www.sciencedirect.com/science/article/pii/S2211383521002768>

Secreted retrovirus-like GAG-domain-containing protein PEG10 is regulated by UBE3A and is involved in Angelman syndrome pathophysiology

Nikhil J. Pandya, Congwei Wang, Veronica Costa, Paul Lopatta, Sonja Meier, F. Isabella Zampeta, A. Mattijs Punt, Edwin Mientjes, Philip Grossen, Tania Distler, Manuel Tzouros, Yasmina Martí, Balazs Banfai, Christoph Patsch, Soren Rasmussen, Marius Hoener, Marco Berrera, Thomas Kremer, Tom Dunkley, Martin Ebeling, Ben Distel, Ype Elgersma, Ravi Jagasia

Cell Reports Medicine, Volume 2, Issue 8, 2021, 100360

<https://www.sciencedirect.com/science/article/pii/S2666379121002093>

Proteomic analysis of overweight/obesity and related abnormal glucose and lipid metabolism caused by phlegm-dampness retention

Jiayi Ma, Shuxian Sun, Cheng Ni, Lingru Li, Jing Xia, Houqin Li, Huirong Song, Xujun Heng, Dandan Hu, Yuanyuan Li

Journal of Traditional Chinese Medical Sciences, Volume 8, Issue 3, 2021, Pages 224-237

<https://www.sciencedirect.com/science/article/pii/S209575482100051X>

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

Svenja C. Schüler, Joanna M. Kirkpatrick, Manuel Schmidt, Deolinda Santinha, Philipp Koch, Simone Di Sanzo, Emilio Cirri, Martin Hemberg, Alessandro Ori, Julia von Maltzahn
Cell Reports, Volume 35, Issue 10, 2021, 109223

<https://www.sciencedirect.com/science/article/pii/S221112472100574X>

A proteomic analysis of urine biomarkers in autism spectrum disorder

Yan Wang, Jishui Zhang, Wenqi Song, Xiaoyi Tian, Ying Liu, Yanfei Wang, Jie Ma, Chengbin Wang, Guangtao Yan

Journal of Proteomics, Volume 242, 2021, 104259

<https://www.sciencedirect.com/science/article/pii/S1874391921001585>

Urine proteome changes in a chronic unpredictable mild stress (CUMS) mouse model of major depressive disorder

Yuhang Huan, Jing Wei, Tong Su, Youhe Gao

Journal of Pharmaceutical and Biomedical Analysis, Volume 199, 2021, 114064

<https://www.sciencedirect.com/science/article/pii/S0731708521001758>

Proteomic analysis of body wall and coelomic fluid in *Sipunculus nudus*

Yupo Cao, Xuli Lu, Yaping Dai, Yahui Li, Fei Liu, Wei Zhou, Jihua Li, Baodong Zheng
Fish & Shellfish Immunology, Volume 111, 2021, Pages 16-24

<https://www.sciencedirect.com/science/article/pii/S1050464821000127>

Apolipoprotein A-I modulates HDL particle size in the absence of apolipoprotein A-II

John T. Melchior, Scott E. Street, Tomas Vaisar, Rachel Hart, Jay Jerome, Zsuzsanna Kuklenyik, Noemie Clouet-Foraison, Carissa Thornock, Shimpi Bedi, Amy S. Shah, Jere P. Segrest, Jay W. Heinecke, W. Sean Davidson

Journal of Lipid Research, Volume 62, 2021, 100099

<https://www.sciencedirect.com/science/article/pii/S00222752100081X>

Proteomic Profiling of Gastric Signet Ring Cell Carcinoma Tissues Reveals Characteristic Changes of the Complement Cascade Pathway

Yang Fan, Bin Bai, Yuting Liang, Yan Ren, Yanxia Liu, Fenli Zhou, Xiaomin Lou, Jin Zi, Guixue Hou, Fei Chen, Qingchuan Zhao, Siqi Liu

Molecular & Cellular Proteomics, Volume 20, 2021, 100068

<https://www.sciencedirect.com/science/article/pii/S1535947621000414>

Proteome Characterization of Glaucoma Aqueous Humor

Xiaoyan Liu, Xiang Liu, Ying Wang, Haidan Sun, Zhengguang Guo, Xiaoyue Tang, Jing Li, Xiaolian Xiao, Shuxin Zheng, Mengxi Yu, Chengyan He, Jiyu Xu, Wei Sun

Molecular & Cellular Proteomics, Volume 20, 2021, 100117

<https://www.sciencedirect.com/science/article/pii/S153594762100089X>

Proteome analysis of rainbow trout (*Oncorhynchus mykiss*) liver responses to chronic heat stress using DIA/SWATH

Jinqiang Quan, Yujun Kang, Lanlan Li, Guiyan Zhao, Jun Sun, Zhe Liu

Journal of Proteomics, Volume 233, 2021, 104079

<https://www.sciencedirect.com/science/article/pii/S1874391920304474>

Effects of gonadotropin-releasing hormone analog (GnRHa) immunization on the gonadal transcriptome and proteome of tilapia (*Oreochromis niloticus*)

Rui Wang, Luting Wen, Huawei Ma, Min Lv, Zhong Chen, Xuesong Du, Yong Lin, Huizan Yang

Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, Volume 37, 2021, 100780

<https://www.sciencedirect.com/science/article/pii/S1744117X20301271>

Global and Site-Specific Effect of Phosphorylation on Protein Turnover

Chongde Wu, Qian Ba, Dayun Lu, Wenxue Li, Barbora Salovska, Pingfu Hou, Torsten Mueller,

George Rosenberger, Erli Gao, Yi Di, Hu Zhou, Eugenio F. Fornasiero, Yansheng Liu

Developmental Cell, Volume 56, Issue 1, 2021, Pages 111-124.e6

<https://www.sciencedirect.com/science/article/pii/S1534580720308753>

Quantitative secretome analysis of polymyxin B resistance in *Escherichia coli*

Dong-Hong Yang, Shiqin Liu, Linlin Cao, Yun-Dan Zheng, Jian-Fang Huang, Ruiguang Ge, Qing-Yu

He, Xuesong Sun

Biochemical and Biophysical Research Communications, Volume 530, Issue 1, 2020, Pages 307-313

<https://www.sciencedirect.com/science/article/pii/S0006291X20313917>

Mitochondrial proteomic analysis reveals that proteins relate to oxidoreductase activity play a central role in pollen fertility in cotton

Hushuai Nie, Cheng Cheng, Jinping Hua

Journal of Proteomics, Volume 225, 2020, 103861

<https://www.sciencedirect.com/science/article/pii/S1874391920302293>

Region-Specific Proteome Changes of the Intestinal Epithelium during Aging and Dietary Restriction

Nadja Gebert, Chia-Wei Cheng, Joanna M. Kirkpatrick, Domenico Di Fraia, Jina Yun, Patrick

Schädel, Simona Pace, George B. Garside, Oliver Werz, K. Lenhard Rudolph, Henri Jasper, Ömer

H. Yilmaz, Alessandro Ori

Cell Reports, Volume 31, Issue 4, 2020, 107565

<https://www.sciencedirect.com/science/article/pii/S2211124720305143>

Integrating SWATH-MS Proteomics and Transcriptome Analysis Identifies CHI3L1 as a Plasma Biomarker for Early Gastric Cancer

Li Min, Shengtao Zhu, Rui Wei, Yu Zhao, Si Liu, Peng Li, Shutian Zhang
Molecular Therapy - Oncolytics, Volume 17, 2020, Pages 257-266
<https://www.sciencedirect.com/science/article/pii/S2372770520300450>

Study of Dimorphism Transition Mechanism of Tremella fuciformis Based on Comparative Proteomics

Li, Yaxing, Haohao Tang, Weichao Zhao, Yang Yang, Xiaolu Fan, Guanping Zhan, Jiahuan Li, and Shujing Sun

Journal of Fungi 8, no. 3: 242, 2022

<https://www.mdpi.com/2309-608X/8/3/242/htm>

Global Genomic and Proteomic Analysis Identified Critical Pathways Modulated by Proto-Oncogene PELP1 in TNBC

Liu, Zexuan, Kristin A. Altwegg, Junhao Liu, Susan T. Weintraub, Yidong Chen, Zhao Lai, Gangadhara R. Sareddy, Suryavathi Viswanadhapalli, and Ratna K. Vadlamudi

Cancers 14, no. 4: 930, 2022

<https://www.mdpi.com/2072-6694/14/4/930/htm>

Ubiquinone Metabolism and Transcription HIF-1 Targets Pathway Are Toxicity Signature Pathways Present in Extracellular Vesicles of Paraquat-Exposed Human Brain Microvascular Endothelial Cells

Vujić, Tatjana, Domitille Schvartz, Anton Iliuk, and Jean-Charles Sanchez

International Journal of Molecular Sciences 22, no. 10: 5065, 2021

<https://www.mdpi.com/1422-0067/22/10/5065/htm>

Integrated Proteomic and Transcriptomic Analysis of Gonads Reveal Disruption of Germ Cell Proliferation and Division, and Energy Storage in Glycogen in Sterile Triploid Pacific Oysters (*Crassostrea gigas*)

Chen, Chen, Hong Yu, and Qi Li.

Cells 10, no. 10: 2668, 2021

<https://www.mdpi.com/2073-4409/10/10/2668/htm>

Key Proteins and Metabolic Pathways Involved in 24-Epibrasionlide Improving Drought Tolerance of *Rhododendron delavayi* Franch

Cai, Yan-Fei, Lu Zhang, Lv-Chun Peng, Shi-Feng Li, Jie Song, Wei-Jia Xie, and Ji-Hua Wang

Horticulturae 7, no. 11: 501, 2021

<https://www.mdpi.com/2311-7524/7/11/501/htm>

Targeted Quantification of the Lysosomal Proteome in Complex Samples

Mosen, Peter, Anne Sanner, Jasjot Singh, and Dominic Winter

Proteomes 9, no. 1: 4, 2021

<https://www.mdpi.com/2227-7382/9/1/4/htm>

The Protective Effects of Lactoferrin on Aflatoxin M1-Induced Compromised Intestinal Integrity

Gao, Ya-Nan, Song-Li Li, Xue Yang, Jia-Qi Wang, and Nan Zheng

International Journal of Molecular Sciences 23, no. 1: 289. 2022

<https://www.mdpi.com/1422-0067/23/1/289/htm>

A protocol for studying structural dynamics of proteins by quantitative crosslinking mass spectrometry and data-independent acquisition

Fränze Müller, Juri Rappsilber

Journal of Proteomics, Volume 218, 2020, 103721

<https://www.sciencedirect.com/science/article/pii/S1874391920300890>

Proteomic investigation into the action mechanism of berberine against *Streptococcus pyogenes*

Gao-Fei Du, Yao-Jin Le, Xuesong Sun, Xiao-Yan Yang, Qing-Yu He

Journal of Proteomics, Volume 215, 2020, 103666

<https://www.sciencedirect.com/science/article/pii/S1874391920300348>

Integrated analysis of the proteome and transcriptome in a MCAO mouse model revealed the molecular landscape during stroke progression

Litao Li, Lipeng Dong, Zhen Xiao, Weiliang He, Jingru Zhao, Henan Pan, Bao Chu, Jinming Cheng, Hebo Wang

Journal of Advanced Research, Volume 24, 2020, Pages 13-27

<https://www.sciencedirect.com/science/article/pii/S2090123220300059>

Understanding the formation mechanism of oolong tea characteristic non-volatile chemical constitutes during manufacturing processes by using integrated widely-targeted metabolome and DIA proteome analysis

Liangyu Wu, Xujian Huang, Shengrui Liu, Jianghong Liu, Yuqiong Guo, Yun Sun, Jinke Lin, Yaling Guo, Shu Wei

Food Chemistry, Volume 310, 2020, 125941

<https://www.sciencedirect.com/science/article/pii/S0308814619320801>

Sensitive Quantitative Proteomics of Human Hematopoietic Stem and Progenitor Cells by Data-independent Acquisition Mass Spectrometry

Sabine Amon, Fabienne Meier-Abt, Ludovic C. Gillet, Slavica Dimitrieva, Alexandre P.A.

Theocharides, Markus G. Manz, Ruedi Aebersold

Molecular & Cellular Proteomics, Volume 18, Issue 7, 2019, Pages 1454-1467

<https://www.sciencedirect.com/science/article/pii/S1535947620315516>

Quantitative Interactomics in Primary T Cells Provides a Rationale for Concomitant PD-1 and BTLA Coinhibitor Blockade in Cancer Immunotherapy

Javier Celis-Gutierrez, Peter Blattmann, Yunhao Zhai, Nicolas Jarmuzynski, Kilian Ruminski, Claude Grégoire, Youcef Ounoughene, Frédéric Fiore, Ruedi Aebersold, Romain Roncagalli, Matthias Gstaiger, Bernard Malissen

Cell Reports, Volume 27, Issue 11, 2019, Pages 3315-3330.e7

<https://www.sciencedirect.com/science/article/pii/S2211124719306618>

Analysis of 1508 Plasma Samples by Capillary-Flow Data-Independent Acquisition Profiles Proteomics of Weight Loss and Maintenance

Roland Bruderer, Jan Muntel, Sebastian Müller, Oliver M. Bernhardt, Tejas Gandhi, Ornella Cominetti, Charlotte Macron, Jérôme Carayol, Oliver Rinner, Arne Astrup, Wim H.M. Saris, Jörg Hager, Armand Valsesia, Loïc Dayon, Lukas Reiter

Molecular & Cellular Proteomics, Volume 18, Issue 6, 2019, Pages 1242-1254

<https://www.sciencedirect.com/science/article/pii/S1535947620318235>

Data-independent Acquisition Improves Quantitative Cross-linking Mass Spectrometry

Fränze Müller, Lars Kolbowski, Oliver M. Bernhardt, Lukas Reiter, Juri Rappsilber

Molecular & Cellular Proteomics, Volume 18, Issue 4, 2019, Pages 786-795, ISSN 1535-9476

<https://www.sciencedirect.com/science/article/pii/S1535947620318417>

Pacific geoduck (*Panopea generosa*) resilience to natural pH variation

Laura H. Spencer, Micah Horwith, Alexander T. Lowe, Yaamini R. Venkataraman, Emma Timmins-Schiffman, Brook L. Nunn, Steven B. Roberts

Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, Volume 30, 2019, Pages 91-101, ISSN 1744-117X

<https://www.sciencedirect.com/science/article/pii/S1744117X18300832>

Analysis of the *Arabidopsis coilin* mutant reveals a positive role of AtCOILIN in plant immunity

Aala A Abulfaraj, Hanna M Alhoraibi, Kiruthiga Mariappan, Jean Bigeard, Huoming Zhang, Marilia Almeida-Trapp, Olga Artyukh, Fatimah Abdulhakim, Sabiha Parween, Delphine Pflieger, Ikram Blilou, Heribert Hirt, Naganand Rayapuram

Plant Physiology, 2022;, kiac280

<https://academic.oup.com/plphys/advance-article/doi/10.1093/plphys/kiac280/6604281?searchresult=1>

Multi-omic analysis shows *REVEILLE* clock genes are involved in carbohydrate metabolism and proteasome function (BoxCar DIA)

Sabine Scandola, Devang Mehta, Qiaomu Li, Maria Camila Rodriguez Gallo, Brigo Castillo, Richard Glen Uhrig

Plant Physiology, 2022;, kiac269

<https://academic.oup.com/plphys/advance-article-abstract/doi/10.1093/plphys/kiac269/6603711?redirectedFrom=fulltext>

DeepSCP: utilizing deep learning to boost single-cell proteome coverage

Bing Wang, Yue Wang, Yu Chen, Mengmeng Gao, Jie Ren, Yueshuai Guo, Chenghao Situ, Yaling Qi, Hui Zhu, Yan Li, Xuejiang Guo

Briefings in Bioinformatics, 2022;, bbac214

<https://academic.oup.com/bib/advance-article-abstract/doi/10.1093/bib/bbac214/6598882?redirectedFrom=fulltext>

The Aging Human Lung Mucosa: A Proteomics Study

Andreu Garcia-Vilanova, Bsc, Angélica M Olmo-Fontánez, MS, Juan I Moliva, PhD, Anna Allué-Guardia, PhD, Harjinder Singh, MD, Robert E Merritt, MD, Diego J Maselli, MD, Jay I Peters, MD, Blanca I Restrepo, PhD, Yufeng Wang, PhD, Larry S Schlesinger, MD, Joanne Turner, PhD, Susan T Weintraub, PhD, Jordi B Torrelles, PhD

The Journals of Gerontology: Series A, 2022;, glac091

<https://academic.oup.com/biomedgerontology/advance-article/doi/10.1093/gerona/glac091/6573303?searchresult=1>

Progressive Increase of High-Frequency EEG Oscillations during Meditation is Associated with its Trait Effects on Heart Rate and Proteomics: A Study on the Tibetan Buddhist

Xiaoli Guo, Meiyun Wang, Xu Wang, Menglin Guo, Ting Xue, Zhuo Wang, Han Li, Tianjiao Xu, Bin He, Donghong Cui, Shanbao Tong

Cerebral Cortex, 2021;, bhab453

<https://academic.oup.com/cercor/advance-article/doi/10.1093/cercor/bhab453/6491353?searchresult=1>

Association of cardiometabolic microRNAs with COVID-19 severity and mortality

Clemens Gutmann, Kseniya Khamina, Konstantinos Theofilatos, Andreas B Diendorfer, Sean A Burnap, Adam Nabeebaccus, Matthew Fish, Mark J W McPhail, Kevin O'Gallagher, Lukas E Schmidt, Christian Cassel, Georg Auzinger, Salvatore Napoli, Salma F Mujib, Francesca Trovato, Barnaby Sanderson, Blair Merrick, Roman Roy, Jonathan D Edgeworth, Ajay M Shah, Adrian C Hayday, Ludwig Traby, Matthias Hackl, Sabine Eichinger, Manu Shankar-Hari, Manuel Mayr

Cardiovascular Research, Volume 118, Issue 2, February 2022, Pages 461–474

<https://academic.oup.com/cardiovasres/article/118/2/461/6424896?searchresult=1>

Mitochondrial heat-shock cognate protein 70 contributes to auxin-mediated embryo development

Guichen Li, Zitong Li, Zeyun Yang, Yehoram Leshem, Yuequan Shen, Shuzhen Men

Plant Physiology, Volume 186, Issue 2, June 2021, Pages 1101–1121

<https://academic.oup.com/plphys/article/186/2/1101/6179332?searchresult=1>

NAGuideR: performing and prioritizing missing value imputations for consistent bottom-up proteomic analyses

Shisheng Wang, Wenxue Li, Liqiang Hu, Jingqiu Cheng, Hao Yang, Yansheng Liu

Nucleic Acids Research, Volume 48, Issue 14, 20 August 2020, Page e83

<https://academic.oup.com/nar/article/48/14/e83/5856122?searchresult=1>

Novel insights into PORCN mutations, associated phenotypes and pathophysiological aspects

Annabelle Arlt, Nicolai Kohlschmidt, Andreas Hentschel, Enrika Bartels, Claudia Groß, Ana Töpf, Pinar Edem, Nora Szabo, Albert Sickmann, Nancy Meyer, Ulrike Schara-Schmidt, Jarred Lau, Hanns Lochmüller, Rita Horvath, Yavuz Oktay, Andreas Roos & Semra Hiz Orphanet

Journal of Rare Diseases volume 17, Article number: 29 (2022)

<https://ojrd.biomedcentral.com/articles/10.1186/s13023-021-02068-w>

Integrated DIA proteomics and lipidomics analysis on non-small cell lung cancer patients with TCM syndromes

Song Cang, Ran Liu, Wei Jin, Qi Tang, Wanjun Li, Kunqian Mu, Pengfei Jin, Kaishun Bi & Qing Li

Chinese Medicine volume 16, Article number: 126 (2021)

<https://cmjournal.biomedcentral.com/articles/10.1186/s13020-021-00535-x>

Differential hippocampal protein expression between normal mice and mice with the perioperative neurocognitive disorder: a proteomic analysis

Chuan Li, Jingzhu Li, He Tao, Jinghua Shan, Fanghao Liu, Xiyuan Deng, Yanan Lin, Xu Lin, Li Fu, Bin Wang & Yanlin Bi

European Journal of Medical Research volume 26, Article number: 130 (2021)

<https://eurjmedres.biomedcentral.com/articles/10.1186/s40001-021-00599-3>

DIA proteomics analysis through serum profiles reveals the significant proteins as candidate biomarkers in women with PCOS

Ying Yu, Panli Tan, Zhenchao Zhuang, Zhejiong Wang, Linchao Zhu, Ruyi Qiu & Huaxi Xu

BMC Medical Genomics volume 14, Article number: 125 (2021)

<https://bmcmmedgenomics.biomedcentral.com/articles/10.1186/s12920-021-00962-7>

Protein signature of human skin fibroblasts allows the study of the molecular etiology of rare neurological diseases

Andreas Hentschel, Artur Czech, Ute Münchberg, Erik Freier, Ulrike Schara-Schmidt, Albert Sickmann, Jens Reimann & Andreas Roos Orphanet

Journal of Rare Diseases volume 16, Article number: 73 (2021)

<https://ojrd.biomedcentral.com/articles/10.1186/s13023-020-01669-1>

Estrogen receptor coregulator binding modulator (ERX-11) enhances the activity of CDK4/6 inhibitors against estrogen receptor-positive breast cancers

Suryavathi Viswanadhapalli, Shihong Ma, Gangadhara Reddy Sareddy, Tae-Kyung Lee, Mengxing Li, Collin Gilbreath, Xihui Liu, Yiliao Luo, Uday P. Pratap, Mei Zhou, Eliot B. Blatt, Kara Kassees, Carlos Arteaga, Prasanna Alluri, Manjeet Rao, Susan T. Weintraub, Rajeshwar Rao Tekmal, Jung-Mo Ahn, Ganesh V. Raj & Ratna K. Vadlamudi Breast

Cancer Research volume 21, Article number: 150 (2019)

<https://breast-cancer-research.biomedcentral.com/articles/10.1186/s13058-019-1227-8>

Profiling the proteomic inflammatory state of human astrocytes using DIA mass spectrometry

Vito Dozio & Jean-Charles Sanchez

Journal of Neuroinflammation volume 15, Article number: 331 (2018)

<https://jneuroinflammation.biomedcentral.com/articles/10.1186/s12974-018-1371-6>

Species comparison of liver proteomes reveals links to naked mole-rat longevity and human aging

Ivonne Heinze, Martin Bens, Enrico Calzia, Susanne Holtze, Oleksandr Dakhovnik, Arne Sahm, Joanna M. Kirkpatrick, Karol Szafranski, Natalie Romanov, Sai Nagender Sama, Kerstin Holzer, Stephan Singer, Maria Ermolaeva, Matthias Platzer, Thomas Hildebrandt & Alessandro Ori

BMC Biology volume 16, Article number: 82 (2018)

<https://bmcbiol.biomedcentral.com/articles/10.1186/s12915-018-0547-y>

Profiling tear proteomes of patients with unilateral relapsed Behcet's disease-associated uveitis using data-independent acquisition proteomics

Anyi Liang, Weiwei Qin, Meifen Zhang, Fei Gao, Chan Zhao, Youhe Gao

PeerJ . 2020 Jun 19;8:e9250

<https://peerj.com/articles/9250/>

Serum apolipoprotein A-II and alpha-2-antiplasmin levels in midtrimester can be used as predictors of preterm delivery

Jianxia Huang, Yuhong Yang and Pei He

Journal of International Medical Research 0(0) 1–9, 2020

<https://journals.sagepub.com/doi/full/10.1177/0300060520952280>

Crizotinib Shows Antibacterial Activity against Gram-Positive Bacteria by Reducing ATP Production and Targeting the CTP Synthase PyrG

Yun-Dan Zheng, Tairan Zhong, Haiming Wu, Nan Li, Zuye Fang, Linlin Cao, Xing-Feng Yin, Qing-Yu He, Ruiguang Ge

Microbiol Spectr . 2022 Jun 29;10(3):e0088422

<https://journals.asm.org/doi/10.1128/spectrum.00884-22>

Bacterial Quorum-Sensing Signal Arrests Phytoplankton Cell Division and Impacts Virus-Induced Mortality

Scott B. Pollara, Jamie W. Becker, Brook L. Nunn, Rene Boiteau, Daniel Repeta, Miranda C. Mudge, Grayton Downing, Davis Chase, Elizabeth L. Harvey, Kristen E. Whalen
mSphere . 2021 May 12;6(3):e00009-21

<https://journals.asm.org/doi/10.1128/mSphere.00009-21>

GSK-3 β Localizes to the Cardiac Z-Disc to Maintain Length Dependent Activation

Marisa J. Stachowski-Doll, Maria Papadaki, Thomas G. Martin, Weikang Ma, Henry M. Gong, Stephanie Shao, Shi Shen, Nitha Aima Muntu, Mohit Kumar, Edith Perez, Jody L. Martin, Christine S. Moravec, Sakthivel Sadayappan, Stuart G. Campbell, Thomas Irving and Jonathan A. Kirk

Circulation Research Volume 130, Issue 618 March 2022

<https://www.ahajournals.org/doi/10.1161/CIRCRESAHA.121.319491>

Molecular characterization of triple negative breast cancer formaldehyde-fixed paraffin-embedded samples by data-independent acquisition proteomics

Silvia García-Adrián, Lucía Trilla-Fuertes, Angelo Gámez-Pozo, Cristina Chiva, Rocío López-Vacas, Elena López-Camacho, Andrea Zapater-Moros, María I. Lumbreras-Herrera, David Hardisson, Laura Yébenes, Pilar Zamora, Eduard Sabidó, Juan Ángel Fresno Vara, Enrique Espinosa
PROTEOMICS Volume 22, Issue 3 First published: 08 October 2021

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/pmic.202100110>

High-throughput, in-depth and estimated absolute quantification of plasma proteome using data-independent acquisition/mass spectrometry (“HIAP-DIA”)

Yue Zhou, Zengqi Tan, Peng Xue, Yi Wang, Xiang Li, Feng Guan
Proteomics, 21, e2000264, 2021

<https://analyticalsciencejournals-onlinelibrary-wiley-com.uml.idm.oclc.org/doi/10.1002/pmic.202000264>

Combining Rapid Data Independent Acquisition and CRISPR Gene Deletion for Studying Potential Protein Functions: A Case of HMGN1

Martin Mehnert, Wenxue Li, Chongde Wu, Barbora Salovska, Yansheng Liu
Proteomics 2019, 19, 1800438

<https://analyticalsciencejournals.onlinelibrary.wiley.com/action/showCitFormats?doi=10.1002%2Fpmic.201800438>

Optimized data-independent acquisition approach for proteomic analysis at single-cell level

Yuefan Wang, Tung-Shing Mamie Lih, Lijun Chen, Yuanwei Xu, Morgan D. Kuczler, Liwei Cao, Kenneth J. Pienta, Sarah R. Amend & Hui Zhang

Clinical Proteomics volume 19, Article number: 24 (2022)

<https://link.springer.com/article/10.1186/s12014-022-09359-9>

PRSS37 deficiency leads to impaired energy metabolism in testis and sperm revealed by DIA-based quantitative proteomic analysis

Wenfeng Xiong, Haoyang Ge, Chunling Shen, Chaojie Li, Xiaohong Zhang, Lingyun Tang, Yan Shen, Shunyu Lu, Hongxin Zhang & Zhugang Wang

Reproductive Sciences (2022)

<https://link.springer.com/article/10.1007/s43032-022-00918-x>

Coupling suspension trapping-based sample preparation and data-independent acquisition mass spectrometry for sensitive exosomal proteomic analysis

Ci Wu, Shiyun Zhou, Megan I. Mitchell, Chunyan Hou, Stephen Byers, Olivier Loudig & Junfeng Ma

Analytical and Bioanalytical Chemistry volume 414, pages2585–2595 (2022)

<https://link.springer.com/article/10.1007/s00216-022-03920-z>

Microcracks on the Rat Root Surface Induced by Orthodontic Force, Crack Extension Simulation, and Proteomics Study

Shengzhao Xiao, Linhao Li, Jie Yao, Lizhen Wang, Kaimin Li, Chongshi Yang, Chao Wang & Yubo Fan

Annals of Biomedical Engineering volume 49, pages2228–2242 (2021)

<https://link.springer.com/article/10.1007/s10439-021-02733-y>

Assessing the Relationship Between Mass Window Width and Retention Time Scheduling on Protein Coverage for Data-Independent Acquisition

Wenxue Li, Hao Chi, Barbora Salovska, Chongde Wu, Liangliang Sun, George Rosenberger & Yansheng Liu

Journal of The American Society for Mass Spectrometry volume 30, pages1396–1405 (2019)

<https://link.springer.com/article/10.1007/s13361-019-02243-1>

Induction of apoptosis in *Trypanosoma brucei* following endocytosis of ultra-small noble metal nanoclusters

Xinyi Wang, Di Zhang, Ning Jiang, Xiaofeng Wang, Naiwen Zhang, Kai Zhang, Xiaoyu Sang, Ying Feng, Ran Chen, Na Yang, Qijun Chen

Nano Today, Volume 38, 2021, 101122

<https://www.sciencedirect.com/science/article/pii/S1748013221000475>

Proteome Landscape of Epithelial-to-Mesenchymal Transition (EMT) of Retinal Pigment Epithelium Shares Commonalities With Malignancy-Associated EMT

Srinivasa R. Sripathi, Ming-Wen Hu, Ravi Chakra Turaga, Joseph Mertz, Melissa M. Liu, Jun Wan, Julien Maruotti, Karl J. Wahlin, Cynthia A. Berlinicke, Jiang Qian, Donald J. Zack

Molecular & Cellular Proteomics, Volume 20, 2021, 100131

<https://www.sciencedirect.com/science/article/pii/S1535947621001031>

Dynamic 3D proteomes reveal protein functional alterations at high resolution in situ

Valentina Cappelletti, Thomas Hauser, Ilaria Piazza, Monika Pepelnjak, Liliana Malinovska, Tobias Fuhrer, Yaozong Li, Christian Dörig, Paul Boersema, Ludovic Gillet, Jan Grossbach, Aurelien Dugourd, Julio Saez-Rodriguez, Andreas Beyer, Nicola Zamboni, Amedeo Caflisch, Natalie de Souza, Paola Picotti

Cell, Volume 184, Issue 2, 2021, Pages 545-559.e22

<https://www.sciencedirect.com/science/article/pii/S0092867420316913>

Maturation Kinetics of a Multiprotein Complex Revealed by Metabolic Labeling

Evgeny Onischenko, Elad Noor, Jonas S. Fischer, Ludovic Gillet, Matthias Wojtynek, Pascal Vallotton, Karsten Weis

Cell, Volume 183, Issue 7, 2020, Pages 1785-1800.e26

<https://www.sciencedirect.com/science/article/pii/S0092867420314604>

Determination of the Time since Deposition of Blood Traces Utilizing a Liquid Chromatography–Mass Spectrometry-Based Proteomics Approach

Tom D. Schneider, Bernd Roschitzki, Jonas Grossmann, Thomas Kraemer, and Andrea E. Steuer
Analytical Chemistry 2022

<https://pubs.acs.org/doi/10.1021/acs.analchem.2c01009>

BoxCar and Library-Free Data-Independent Acquisition Substantially Improve the Depth, Range, and Completeness of Label-Free Quantitative Proteomics

Devang Mehta, Sabine Scandola, and R. Glen Uhrig

Analytical Chemistry 2022, 94, 2, 793-802

<https://pubs.acs.org/doi/10.1021/acs.analchem.1c03338>

Evaluation of the Sensitivity and Reproducibility of Targeted Proteomic Analysis Using Data-Independent Acquisition for Serum and Cerebrospinal Fluid Proteins

Kyung-Cho Cho, Sungtaek Oh, Yuefan Wang, Liana S. Rosenthal, Chan Hyun Na*, and Hui Zhang
Journal of Proteome Research 2021, 20, 9, 4284-4291

<https://pubs.acs.org/doi/10.1021/acs.jproteome.1c00238>

A Simple Optimization Workflow to Enable Precise and Accurate Imputation of Missing Values in Proteomic Data Sets

Kruttika Dabke, Simion Kreimer, Michelle R. Jones, and Sarah J. Parker

Journal of Proteome Research 2021, 20, 6, 3214-3229

<https://pubs.acs.org/doi/10.1021/acs.jproteome.1c00070>

Ciprofloxacin-Resistant Staphylococcus aureus Displays Enhanced Resistance and Virulence in Iron-Restricted Conditions

Yingshan Dong, Xinyu Miao, Yun-Dan Zheng, Jiajia Liu, Qing-Yu He*, Ruiguang Ge*, and Xuesong Sun

Journal of Proteome Research 2021, 20, 5, 2839-2850

<https://pubs.acs.org/doi/10.1021/acs.jproteome.1c00077>

Quantitative proteomic analysis of oxaliplatin induced peripheral neurotoxicity

Linlin Yang, Hua Wang, Wanting Lu, Gangqi Yang, Zian Lin, Ruibing Chen, Hongyan Li

Journal of Proteomics, Volume 266, 2022

<https://www.sciencedirect.com/science/article/pii/S1874391922002068>

Surveying the Vampire Bat (*Desmodus rotundus*) Serum Proteome: A Resource for Identifying Immunological Proteins and Detecting Pathogens

Benjamin A. Neely, Michael G. Janech, M. Brock Fenton, Nancy B. Simmons, Alison M. Bland, and Daniel J. Becker

Journal of Proteome Research 2021, 20, 5, 2547-2559

<https://pubs.acs.org/doi/10.1021/acs.jproteome.0c00995>

Proteomic Investigation of the Antibacterial Mechanism of trans-Cinnamaldehyde against *Escherichia coli*

Gao-Fei Du, Xing-Feng Yin, Dong-Hong Yang, Qing-Yu He*, and Xuesong Sun

Journal of Proteome Research 2021, 20, 5, 2319-2328

<https://pubs.acs.org/doi/10.1021/acs.jproteome.0c00847>

BoxCarmax: A High-Selectivity Data-Independent Acquisition Mass Spectrometry Method for the Analysis of Protein Turnover and Complex Samples

Barbora Salovska, Wenxue Li, Yi Di, and Yansheng Liu

Analytical Chemistry 2021, 93, 6, 3103-3111

<https://pubs.acs.org/doi/10.1021/acs.analchem.0c04293>

Selective Labeling and Identification of the Tumor Cell Proteome of Pancreatic Cancer In Vivo

Nancy G. Azizian, Delaney K. Sullivan, Litong Nie, Sammy Pardo, Dana Molleur, Junjie Chen, Susan T. Weintraub, and Yulin Li

Journal of Proteome Research 2021, 20, 1, 858-866

<https://pubs.acs.org/doi/10.1021/acs.jproteome.0c00666>

Lysine and Arginine Protein Post-translational Modifications by Enhanced DIA Libraries: Quantification in Murine Liver Disease

Aaron E. Robinson, Aleksandra Binek, Vidya Venkatraman, Brian C. Searle, Ronald J. Holewinski, George Rosenberger, Sarah J. Parker, Nathan Basisty, Xueshu Xie, Peder J. Lund, Gautam Saxena, José M. Mato, Benjamin A. Garcia, Birgit Schilling, Shelly C. Lu, and Jennifer E. Van Eyk
Journal of Proteome Research 2020, 19, 10, 4163-4178
<https://pubs.acs.org/doi/10.1021/acs.jproteome.0c00685>

Mass Defect-Based DiLeu Tagging for Multiplexed Data-Independent Acquisition

Xiaofang Zhong, Dustin C. Frost, Qinying Yu, Miyang Li, Ting-Jia Gu, and Lingjun Li
Analytical Chemistry 2020, 92, 16, 11119-11126
<https://pubs.acs.org/doi/10.1021/acs.analchem.0c01136>

Deep Proteomics Using Two Dimensional Data Independent Acquisition Mass Spectrometry

Kyung-Cho Cho, David J. Clark, Michael Schnaubelt, Guo Ci Teo, Felipe da Veiga Leprevost, William Bocik, Emily S. Boja, Tara Hiltke, Alexey I. Nesvizhskii*, and Hui Zhang
Analytical Chemistry 2020, 92, 6, 4217-4225
<https://pubs.acs.org/doi/10.1021/acs.analchem.9b04418>

Quantitative Mitochondrial Proteomics Reveals ANXA7 as a Crucial Factor in Mitophagy

Kun Meng, Shaohua Lu, Xin Yan, Yue Sun, Jing Gao, Yang Wang, Xingfeng Yin, Zhenghua Sun, and Qing-Yu He
Journal of Proteome Research 2020, 19, 3, 1275-1284
<https://pubs.acs.org/doi/10.1021/acs.jproteome.9b00800>

Systematic Comparison of Strategies for the Enrichment of Lysosomes by Data Independent Acquisition

Jasjot Singh, Edgar Kaade, Jan Muntel, Roland Bruderer, Lukas Reiter, Melanie Thelen, and Dominic Winter
Journal of Proteome Research 2020, 19, 1, 371-381
<https://pubs.acs.org/doi/10.1021/acs.jproteome.9b00580>

Comparing Data-Independent Acquisition and Parallel Reaction Monitoring in Their Abilities To Differentiate High-Density Lipoprotein Subclasses

Amanda R. M. Silva, Marcos T. K. Toyoshima, Marisa Passarelli, Paolo Di Mascio, and Graziella E. Ronsein
Journal of Proteome Research 2020, 19, 1, 248-259
<https://pubs.acs.org/doi/10.1021/acs.jproteome.9b00511>

Quantitative Photo-crosslinking Mass Spectrometry Revealing Protein Structure Response to Environmental Changes

Fränze Müller, Andrea Graziadei, and Juri Rappsilber
Analytical Chemistry 2019, 91, 14, 9041-9048

<https://pubs.acs.org/doi/10.1021/acs.analchem.9b01339>

Comparison of Protein Quantification in a Complex Background by DIA and TMT Workflows with Fixed Instrument Time

Jan Muntel, Joanna Kirkpatrick, Roland Bruderer, Ting Huang, Olga Vitek, Alessandro Ori*, and Lukas Reiter

Journal of Proteome Research 2019, 18, 3, 1340-1351

<https://pubs.acs.org/doi/10.1021/acs.jproteome.8b00898>

Detergent-Insoluble Proteome Analysis Revealed Aberrantly Aggregated Proteins in Human Preeclampsia Placentas

Wanling Zhang, Xing Chen, Ziqi Yan, Yang Chen, Yizhi Cui, Bingjun Chen, Chujun Huang, Weiwen Zhang, Xingfeng Yin, Qing-Yu He, Fang He, and Tong Wang

Journal of Proteome Research 2017, 16, 12, 4468-4480

<https://pubs.acs.org/doi/10.1021/acs.jproteome.7b00352>

MdFDIA: A Mass Defect Based Four-Plex Data-Independent Acquisition Strategy for Proteome Quantification

Yi Di, Ying Zhang, Lei Zhang, Tao Tao, and Haojie Lu

Analytical Chemistry 2017, 89, 19, 10248-10255

<https://pubs.acs.org/doi/10.1021/acs.analchem.7b01635>

Sequential Windowed Acquisition of Reporter Masses for Quantitation-First Proteomics

William D. Barshop, Shima Rayatpisheh, Hee Jong Kim, and James A. Wohlschlegel

Journal of Proteome Research 2019, 18, 4, 1893-1901

<https://pubs.acs.org/doi/10.1021/acs.jproteome.8b00884>

PINE: An Automation Tool to Extract and Visualize Protein-Centric Functional Networks

Niveda Sundararaman, James Go, Aaron E. Robinson, José M. Mato, Shelly C. Lu, Jennifer E. Van Eyk, and Vidya Venkatraman

Journal of the American Society for Mass Spectrometry 2020, 31, 7, 1410-1421

<https://pubs.acs.org/doi/10.1021/jasms.0c00032>

Alternative LC-MS/MS Platforms and Data Acquisition Strategies for Proteomic Genotyping of Human Hair Shafts

Zachary C. Goecker, Kevin M. Legg, Michelle R. Salemi, Anthony W. Herren, Brett S. Phinney, Heather E. McKiernan, and Glendon J. Parker

Journal of Proteome Research 2021, 20, 10, 4655-4666

<https://pubs.acs.org/doi/10.1021/acs.jproteome.1c00209>

Urinary Proteome Analysis of Global Cerebral Ischemia–Reperfusion Injury Rat Model via Data-Independent Acquisition and Parallel Reaction Monitoring Proteomics

Xiaopeng Sun, Qiujie Li, Jiajia Wang, Yuan Ma, Mingshan Wang & Weiwei Qin

Journal of Molecular Neuroscience (2022)

<https://link.springer.com/article/10.1007/s12031-022-02055-1>

Proteome Informatics in Tibetan Sheep (*Ovis aries*) Testes Suggest the Crucial Proteins Related to Development and Functionality

Taotao Li, Huihui Wang , Ruirui Luo, Xuejiao An, Qiao Li, Manchun Su, Huibin Shi, Haolin Chen, Yong Zhang, Youji Ma

Front Vet Sci . 2022 Jul 15;9:923789

<https://www.frontiersin.org/articles/10.3389/fvets.2022.923789/full>

Serum Proteomics Identifies Immune Pathways and Candidate Biomarkers of Coronavirus Infection in Wild Vampire Bats

Daniel J. Becker, Guang-Sheng Lei, Michael G. Janech, Alison M. Bland, M. Brock Fenton, Nancy B. Simmons, Ryan F. Relich and Benjamin A. Neely

Front. Virol., 24 March 2022 Sec. Virus and Host Immunity

<https://static.frontiersin.org/articles/10.3389/fviro.2022.862961/full>

An amphipathic helix in Brl1 is required for nuclear pore complex biogenesis in *S. cerevisiae*

Annemarie Kralt, Matthias Wojtynek, Jonas S Fischer, Arantxa Agote-Aran, Roberta Mancini, Elisa Dultz, Elad Noor, Federico Uliana, Marianna Tatarek-Nossol, Wolfram Antonin, Evgeny Onischenko, Ohad Medalia, Karsten Weis

eLife 11:e78385 2022

<https://elifesciences.org/articles/78385>

Evolution of higher mesenchymal CD44 expression in the human lineage: a gene linked to cancer malignancy

Xinghong Ma, Anasuya Dighe, Jamie Maziarz, Edwin Neumann, Eric Erkenbrack, Yuan-Yuan Hei, Yansheng Liu, Yasir Suhail, Kshitiz, Irene Pak, Andre Levchenko, Günter P Wagner

Evolution, Medicine, and Public Health, eoac036, 2022

<https://academic.oup.com/emph/advance-article/doi/10.1093/emph/eoac036/6678981?searchresult=1>

Widespread hydroxylation of unstructured lysine-rich protein domains by JMJD6

Matthew E. Cockman, Yoichiro Sugimoto, Hamish B. Pegg, Norma Masson, Eidarus Salah, Anthony Tumber, Helen R. Flynn, Joanna M. Kirkpatrick, Christopher J. Schofield and Peter J. Ratcliffe

Proc Natl Acad Sci U S A . 2022 Aug 9;119(32):e2201483119

<https://www.pnas.org/doi/10.1073/pnas.2201483119>

DIA-Based Proteomic Analysis of Plasma Protein Profiles in Patients with Severe Acute Pancreatitis

Li, He, Yansong Xu, Xin Zhou, Taiyang Jin, Ziru Wang, Yuansong Sun, Haiping Wang, Datong Jiang, Chunlin Yin, Bing Shen, and Kai Song

Molecules 27, no. 12: 3880, 2022

<https://www.mdpi.com/1420-3049/27/12/3880/htm>

Plasma Proteomic Profiling Reveals the Regulatory Factors of Milk Protein Synthesis in Holstein Cows

Wang, Xinling, Jie Xu, and Zhaoyu Han

Biology 11, no. 8: 1239, 2022

<https://www.mdpi.com/2079-7737/11/8/1239/htm>

Neural stem cell transplantation alleviates functional cognitive deficits in a mouse model of tauopathy

He-Ao Zhang, Chun-Xu Yuan, Ke-Fu Liu, Qi-Fan Yang, Juan Zhao, Hui Li, Qing-Hu Yang, Da Song, Zhen-Zhen Quan, and Hong Qing

Neural Regeneration Research: January 2022 - Volume 17 - Issue 1 - p 152-162

https://journals.lww.com/nrronline/Fulltext/2022/01000/Neural_stem_cell_transplantation_alleviates.33.aspx

A TCF7L2-responsive suppression of both homeostatic and compensatory remyelination in Huntington disease mice

Abdellatif Benraiss, John N. Mariani, Ashley Tate, Pernille M. Madsen, Kathleen M. Clark, Kevin A. Welle, Renee Solly, Laetitia Capellano, Karen Bentley, Devin Chandler-Militello, Steven A. Goldman

Cell Reports Volume 40, Issue 9, 2022, 111291

<https://www.sciencedirect.com/science/article/pii/S2211124722011111>

GcvB Regulon Revealed by Transcriptomic and Proteomic Analysis in *Vibrio alginolyticus*

Liu, Bing, Jianxiang Fang, Huizhen Chen, Yuehong Sun, Shan Yang, Qian Gao, Ying Zhang, and Chang Chen

International Journal of Molecular Sciences 23, no. 16: 9399, 2022

<https://www.mdpi.com/1422-0067/23/16/9399/htm>

Urinary proteome profiling for children with autism using data-independent acquisition proteomics

Wenshu Meng, Yuhang Huan, Youhe Gao

Transl Pediatr. 2021 Jul; 10(7): 1765–1778

<https://tp.amegroups.com/article/view/74661/html>

Dynamic Urinary Proteome Changes in Ovalbumin-Induced Asthma Mouse Model Using Data-Independent Acquisition Proteomics

Weiwei Qin, Ting Wang, Guangwei Liu, Lixin Sun, Wei Han and Youhe Gao

J Asthma Allergy. 2021; 14: 1355–1366

<https://www.dovepress.com/dynamic-urinary-proteome-changes-in-ovalbumin-induced-asthma-mouse-mod-peer-reviewed-fulltext-article-JAA>

Data-independent acquisition-based proteome and phosphoproteome profiling across six melanoma cell lines reveals determinants of proteotypes

Erlu Gao, Wenxue Li, Chongde Wu, Wenguang Shao, Yi Di and Yansheng Liu

Mol Omics. 2021 Jun 14; 17(3): 413–425

<https://pubs.rsc.org/en/content/articlelanding/2021/mo/d0mo00188k>

Proteomic analysis of urine reveals biomarkers for the diagnosis and phenotyping of abdominal-type Henoch-Schonlein purpura

Lulu Jia, Jianqiang Wu, Jing Wei, Lina Du, Panpan Wang, Yanju Zhang, Yuncui Yu, Xiaoling Wang, Yan Yang and Youhe Gao

Transl Pediatr. 2021 Mar; 10(3): 510–524

<https://tp.amegroups.com/article/view/63506/html>

Aqueous humor proteomic analysis of acute angle-closure glaucoma with visual field loss

Jiyu Xu, Liangliang Zhao, Xiang Liu, Haidan Sun, Xiaoyan Liu, Zhengguang Guo, Ying Wang And Wei Sun

Ann Transl Med. 2021 Nov; 9(21): 1611

<https://atm.amegroups.com/article/view/81834/html>

Urinary proteomic analysis during pregnancy and its potential application in early prediction of gestational diabetes mellitus and spontaneous abortion

Xiangqing Wang, Mindi Zhao, Zhengguang Guo, Shuoning Song, Shixuan Liu, Tao Yuan, Yong Fu, Yingyue Dong, Haidan Sun, Xiaoyan Liu, Dongdong Zhou, Weigang Zhao, Wei Sun

Ann Transl Med. 2022 Jul;10(13):736

<https://atm.amegroups.com/article/view/97901/html>

Proteomic Analysis of Aqueous Humor Proteins Associated with Neovascular Glaucoma Secondary to Proliferative Diabetic Retinopathy

Wang, Ying; Xu, Shaolin; Li, Junyi; Yuan, Fujie; Chen, Yue; Liu, Kelin

Current Proteomics, Volume 18, Number 5, 2021, pp. 717-729(13)

<https://www.ingentaconnect.com/content/ben/cp/2021/00000018/00000005/art00013>

PR-DUB maintains the expression of critical genes through FOXK1/2- and ASXL1/2/3-dependent recruitment to chromatin and H2AK119ub1 deubiquitination

Petros Kolovos, Koutarou Nishimura, Aditya Sankar, Simone Sidoli, Paul A. Cloos, Kristian Helin and Jesper Christensen

Genome Res. 2020. 30: 1119-1130

<https://genome.cshlp.org/content/30/8/1119.full>

Tear proteomics of orbital decompression for disfiguring exophthalmos in inactive thyroid-associated ophthalmopathy

Lihong Jiang, Ao Rong, Ruili Wei, Jiale Diao, Hui Ding, Wei Wang

Exp Ther Med. 2020 Dec;20(6):253. doi: 10.3892

<https://www.spandidos-publications.com/10.3892/etm.2020.9383>

Characterization of Pacific oyster *Crassostrea gigas* proteomic response to natural environmental differences

Yaamini R. Venkataraman, Emma Timmins-Schiffman, Micah J. Horwith, Alexander T. Lowe, Brook Nunn, Brent Vadopalas, Laura H. Spencer, Steven B. Roberts

MEPS 610:65-81 (2019)

<https://www.int-res.com/abstracts/meps/v610/p65-81/>

Deep Coverage Tissue and Cellular Proteomics Revealed IL-1 β Can Independently Induce the Secretion of TNF-Associated Proteins from Human Synoviocytes

Shengquan Tang, Suyuan Deng, Jiahui Guo, Xing Chen, Wanling Zhang, Yizhi Cui, Yanzhang Luo, Ziqi Yan, Qing-Yu He, Shan Shen and Tong Wang

J Immunol January 15, 2018, 200 (2) 821-833

<https://www.jimmunol.org/content/200/2/821.abstract>

Serum peptidome profiles immune response of COVID-19 Vaccine administration

Wenjia Zhang, Dandan Li, Bin Xu, Lanlan Xu, Qian Lyu, Xiangyi Liu, Zhijie Li, Jian Zhang, Wei Sun, Qingwei Ma, Liang Qiao and Pu Liao

Front. Immunol., 24 August 2022

<https://www.frontiersin.org/articles/10.3389/fimmu.2022.956369/full>

Proteotype coevolution and quantitative diversity across 11 mammalian species

Qian Ba, Yuanyuan Hei, Anasuya Dighe, Wenxue Li, Jamie Maziarz, Irene Pak, Shisheng Wang, Günter P Wagner, Yansheng Liu

Sci Adv. 2022 Sep 9;8(36):eabn0756

<https://www.science.org/doi/10.1126/sciadv.abn0756>

The human disease gene LYSET is essential for lysosomal enzyme transport and viral infection

Christopher M Richards, Sabrina Jabs, Wenjie Qiao, Lauren D Varanese, Michaela Schweizer,

Peter R Mosen, Nicholas M Riley, Malte Klüssendorf, James R Zengel, Ryan A Flynn, Arjun Rustagi, John C Widen, Christine E Peters, Yaw Shin Ooi, Xuping Xie, Pei-Yong Shi, Ralf Bartenschlager, Andreas S Puschnik, Matthew Bogyo, Carolyn R Bertozzi, Catherine A Blish, Dominic Winter, Claude M Nagamine, Thomas Braulke, Jan E Carette
Science . 2022 Sep 8;eabn5648

<https://www.science.org/doi/10.1126/science.abn5648>

Comparative Proteomic Analysis of Proteins in Breast Milk during Different Lactation Periods

Zhang, Yifan, Xiaoxu Zhang, Lijuan Mi, Chuangang Li, Yiran Zhang, Ran Bi, Jinzhu Pang, and Yixuan Li

Nutrients 14, no. 17: 3648, 2022

<https://www.mdpi.com/2072-6643/14/17/3648/htm>

Proteomics Analysis and Identification of Proteins Related to Isoprenoid Biosynthesis in *Cinnamomum camphora* (L.) Presl

Zhu, Changsan, Fan Zhang, Silin Chen, Kun Wang, Ganju Xiang, Xiaojing Liang, Jiacheng An, Kaixiang Li, and Li Liu

Forests 13, no. 9: 1487, 2022

<https://www.mdpi.com/1999-4907/13/9/1487/htm>

Effects of Alternating Electric Field Assisted Freezing–Thawing–Aging Sequence on Data-Independent Acquisition Quantitative Proteomics of *Longissimus dorsi* Muscle

Guangyu Wu, Chuan Yang, Heather L. Bruce, Bimol C. Roy, Xia Li, and Chunhui Zhang

Journal of Agricultural and Food Chemistry 2022

<https://pubs.acs.org/doi/10.1021/acs.jafc.2c04207>

Global, in situ analysis of the structural proteome in individuals with Parkinson’s disease to identify a new class of biomarker

Marie-Therese Mackmull, Luise Nagel, Fabian Sesterhenn, Jan Muntel, Jan Grossbach, Patrick Stalder, Roland Bruderer, Lukas Reiter, Wilma D. J. van de Berg, Natalie de Souza, Andreas Beyer & Paola Picotti

Nature Structural & Molecular Biology volume 29, pages978–989 (2022)

<https://www.nature.com/articles/s41594-022-00837-0>

Cross-linking of the endolysosomal system reveals potential flotillin structures and cargo

Jasjot Singh, Hadeer Elhabashy, Pathma Muthukottiappan, Markus Stepath, Martin Eisenacher, Oliver Kohlbacher, Volkmar Gieselmann & Dominic Winter

Nature Communications volume 13, Article number: 6212 (2022)

<https://www.nature.com/articles/s41467-022-33951-0>

Multi-omics reveals diet-induced metabolic disorders and liver inflammation via microbiota-gut-liver axis

Bing Wang, Boyan Zhang, Lin Zhou, Shuanghong Li, Zhen Li, Hailing Luo

The Journal of Nutritional Biochemistry 2022, 109183, ISSN 0955-2863

<https://www.sciencedirect.com/science/article/pii/S0955286322002510>

Proteome and phosphoproteome profiling of non-small cell lung cancer cell line A549 treated with TRAIL

Yi Zhong, Fen Yang, Tao Su, Xiyu Wu, Wen Zheng, Lu Zhang, Ge Liang, Lian Wang, Lijun Wang, Shisheng Wang, Hao Yang

PROTEOMICS 2022

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/pmic.202200248>

Long-term osteogenic differentiation of human bone marrow stromal cells in simulated microgravity: novel proteins sighted

Giulia Montagna, Giuseppe Pani, Dani Flinkman, Francesco Cristofaro, Barbara Pascucci, Luca Massimino, Luigi Antonio Lamparelli, Lorenzo Fassina, Peter James, Eleanor Coffey, Giuseppina Rea, Livia Visai & Angela Maria Rizzo

Cellular and Molecular Life Sciences volume 79, Article number: 536 (2022)

<https://link.springer.com/article/10.1007/s00018-022-04553-2>

Digoxin Induces Human Astrocyte Reaction In Vitro

David Pamies, Tatjana Vujić, Domitille Schvartz, Julien Boccard, Cendrine Repond, Carolina Nunes, Serge Rudaz, Jean-Charles Sanchez, Víctor González-Ruiz & Marie-Gabrielle Zurich
Molecular Neurobiology (2022)

<https://link.springer.com/article/10.1007/s12035-022-03057-1>

Candidate biomarkers in brown adipose tissue for post-mortem diagnosis of fatal hypothermia

Miao Zhang, Ning Wang, Xiang-Shen Guo, Lin-Lin Wang, Peng-Fei Wang, Zhi-Peng Cao, Fu-Yuan Zhang, Zi-Wei Wang, Da-Wei Guan & Rui Zhao

International Journal of Legal Medicine (2022)

<https://link.springer.com/article/10.1007/s00414-022-02897-9>

Novel biochemical, structural, and systems insights into inflammatory signaling revealed by contextual interaction proteomics

Rodolfo Ciuffa, Federico Uliana, Jonathan Mannion, Martin Mehnert, Tencho Tenev, Cathy Marulli, Ari Satanowski, Lena Maria Leone Keller, Pilar Natalia Rodilla Ramírez, Alessandro Ori, Matthias Gstaiger, Pascal Meier, Ruedi Aebersold

PNAS 2022 Vol. 119 No. 40 e2117175119

<https://www.pnas.org/doi/10.1073/pnas.2117175119>

The novel type II toxin–antitoxin PacTA modulates *Pseudomonas aeruginosa* iron homeostasis by obstructing the DNA-binding activity of Fur

Yingjie Song, Siping Zhang, Zirui Ye, Yongyan Song, Lin Chen, Aiping Tong, Yongxing He, Rui Bao
Nucleic Acids Research, Volume 50, Issue 18, 14 October 2022, Pages 10586–10600

<https://academic.oup.com/nar/article/50/18/10586/6749537?searchresult=1>

An artificial LAMA2-GelMA hydrogel microenvironment for the development of pancreatic endocrine progenitors

Yan Huang, Yang Xu, Jiachen Zhu, Jian Wan, Yicheng Xiong, Zhaoyan Jiang, Shajun Zhu, Qingsong Guo, Yuxi Li, Yuhua Lu, Bin Yu, Yibing Guo, Zhiwei Wang, Yumin Yang
Biomaterials 2022, 121882

<https://www.sciencedirect.com/science/article/pii/S0142961222005221>

HDL isolated by immunoaffinity, ultracentrifugation, or precipitation is compositionally and functionally distinct

Michael Holzer, Senka Ljubojevic-Holzer, Douglas Ricardo Souza Junior, Julia T. Stadler, Alankrita Rani, Hubert Scharnagl, Graziella Eliza Ronsein, Gunther Marsche
Journal of Lipid Research 2022, 100307

<https://www.sciencedirect.com/science/article/pii/S0022227522001407>

Impact of peptide permeation enhancer on tight junctions opening cellular mechanisms

Joël Brunner, Domitille Schvartz, Aurélie Gouiller, Alexandre Hainard, Gerrit Borchard
Biochemistry and Biophysics Reports Volume 32, 2022, 101375

<https://www.sciencedirect.com/science/article/pii/S2405580822001753>

Changes to Urinary Proteome in High-Fat-Diet ApoE^{-/-} Mice

Hua, Yuanrui, Wenshu Meng, Jing Wei, Yongtao Liu, and Youhe Gao
Biomolecules 12, no. 11: 1569, 2022

<https://www.mdpi.com/2218-273X/12/11/1569>

Proteome Analysis of Temporomandibular Joint with Disc Displacement

X Liu, Y Yang, L Chen, S Tian, A Abdelrehem, J Feng, G Fu, W Chen, C Ding, Y Luo, D Zou, C Yang
J Dent Res . 2022 Oct 20;220345221110099

<https://journals.sagepub.com/doi/abs/10.1177/00220345221110099>

Combined Proteomic and Metabolomic Analysis of the Molecular Mechanism Underlying the Response to Salt Stress during Seed Germination in Barley

Chen, Yiyou, Juncheng Wang, Lirong Yao, Baochun Li, Xiaole Ma, Erjing Si, Ke Yang, Chengdao Li, Xunwu Shang, Yaxiong Meng, and Huajun Wang

International Journal of Molecular Sciences 23, no. 18: 10515, 2022

<https://www.mdpi.com/1422-0067/23/18/10515/htm>

Developmental changes in proteins of casein micelles in goat milk using data-independent acquisition-based proteomics methods during the lactation cycle

Xueheng Sun, Zhongna Yu, Chuozi Liang, Shubin Xie, Jing Wen, Hexiang Wang, Jun Wang, Yongxin Yang, Rongwei Han

Journal of Dairy Science 2022

<https://www.sciencedirect.com/science/article/pii/S0022030222006300>

Dose-related shifts in proteome and function of extracellular vesicles secreted by fetal neural stem cells following chronic alcohol exposure

Dae D. Chung, Marisa R. Pinson, Amanda H. Mahnke, Nihal A. Salem, Khang T. Le, Elizabeth A. Payne, Tenley E. Lehman, Susan T. Weintraub, Rajesh C. Miranda

Heliyon 2022, e11348,

<https://www.sciencedirect.com/science/article/pii/S2405844022026366>

Automated Proteomics Sample Preparation of Phosphatidylserine-Positive Extracellular Vesicles from Human Body Fluids

Satoshi Muraoka, Masayo Hirano, Junko Isoyama, Mimiko Ishida, Takeshi Tomonaga, and Jun Adachi

ACS Omega, Articles ASAP, 2022

<https://pubs.acs.org/doi/10.1021/acsomega.2c05244>

Endocrine resistance and breast cancer plasticity are controlled by CoREST

Liliana Garcia-Martinez, Andrew M. Adams, Ho Lam Chan, Yuichiro Nakata, Natalia Weich, Stephanie Stransky, Zhao Zhang, Mohamed Alshalalfa, Leonor Sarria, Brandon A. Mahal, Susan B. Kesmodel, Toni Celià-Terrassa, Zhijie Liu, Saverio Minucci, Daniel Bilbao, Simone Sidoli, Ramiro E. Verdun & Lluís Morey

Nature Structural & Molecular Biology (2022)

<https://www.nature.com/articles/s41594-022-00856-x>

Transcriptomic and proteomic characteristics of the di(2-ethylhexyl) phthalate-induced sperm dna damage mouse model

Chenming Zhang, Zulong Wang, Rubing Chen, Shiqi Wang, Hao Zhang, Sicheng Ma, Zhong Hua

Hum Exp Toxicol . 2022 Jan-Dec;41:9603271221139444

<https://journals.sagepub.com/doi/full/10.1177/09603271221139444>

Cysteine-Mediated Extracellular Electron Transfer of *Lysinibacillus varians* GY32

Guannan Kong, Yonggang Yang, Yeshen Luo, Fei Liu, Da Song, Guoping Sun, Daobo Li, Jun Guo, Meijun Dong, Meiyang Xu

Microbiol Spectr . 2022 Nov 1:e0279822

<https://journals.asm.org/doi/10.1128/spectrum.02798-22>

Comparative analysis of changes in whey proteins of goat milk throughout the lactation cycle using quantitative proteomics

Xueheng Sun, Zhongna Yu, Chuozi Liang, Shubin Xie, Hexiang Wang, Jun Wang, Yongxin Yang, Rongwei Han

Journal of Dairy Science 2022,

<https://www.sciencedirect.com/science/article/pii/S0022030222006762>

Alterations in the proteome as a regulating mechanism for patulin stress by the antagonistic yeast *Meyerozyma guilliermondii*

Dhanasekaran Solairaj, Qiya Yang, Junfang Ma, Yu Fu, Hongyin Zhang

Biological Control Volume 177, 2023, 105112

<https://www.sciencedirect.com/science/article/pii/S1049964422002778>

Integration of transcriptomic and proteomic analyses reveals protective mechanisms of N-acetylcysteine in indomethacin-stimulated enterocytes

Qian Zhang, Cuifang Deng, Meng Peng, Chengcheng Li, Yi Teng, Shuangshuang Guo, Tao Wu, Dan Yi, Yongqing Hou

The Journal of Nutritional Biochemistry 2022, 109231

<https://www.sciencedirect.com/science/article/pii/S0955286322002996>

The Impact of Different Withering Approaches on the Metabolism of Flavor Compounds in Oolong Tea Leaves

Wang, Yahui, Chenxue Li, Jiaqi Lin, Yun Sun, Shu Wei, and Liangyu Wu

Foods 11, no. 22: 3601, 2022

<https://www.mdpi.com/2304-8158/11/22/3601>

Physiology and Proteomic Basis of Lung Adaptation to High-Altitude Hypoxia in Tibetan Sheep

Pengfei Zhao, Shaobin Li, Zhaohua He, Fangfang Zhao, Jiqing Wang, Xiu Liu, Mingna Li, Jiang Hu, Zhidong Zhao, and Yuzhu Luo

Animals (Basel). 2022 Aug; 12(16): 2134

<https://www.mdpi.com/2076-2615/12/16/2134>

Data-independent acquisition-based quantitative proteomic analysis of m.3243A>G MELAS reveals novel potential pathogenesis and therapeutic targets

Xueli Chang, Zhaoxu Yin, Wei Zhang, Jiaying Shi, Chuanqiang Pu, Qiang Shi, Juan Wang, Jing Zhang, Li Yan, Wenqu Yang, and Junhong Guo

Medicine (Baltimore). 2022 Oct 14; 101(41): e30938

<https://journals.lww.com/md->

[journal/Fulltext/2022/10140/Data_independent_acquisition_based_quantitative.110.aspx](https://journals.lww.com/md-journal/Fulltext/2022/10140/Data_independent_acquisition_based_quantitative.110.aspx)

Transcriptomic and proteomic profiling of NaV1.8-expressing mouse nociceptors

Manuela Schmidt, Julia Regina Sondermann, David Gomez-Varela, Cankut Çubuk, Queensta Millet, Myles J. Lewis, John N. Wood, and Jing Zhao

Front Mol Neurosci. 2022; 15: 1002842

<https://www.frontiersin.org/articles/10.3389/fnmol.2022.1002842/full>

The general law of plasma proteome alterations occurring in the lifetime of Chinese individuals reveals the importance of immunity

Xiaolin Ni, Juan Jiao, Ze Yang, Zhaoping Wang, Nan Nan, Danni Gao, Liang Sun, Xiaoquan Zhu, Qi Zhou, Nan Zhang, Zhu Wu, Shenqi Zhang, and Huiping Yuan

Aging (Albany NY). 2022 Sep 14; 14(17): 7065–7092

<https://www.aging-us.com/article/204278/text>

Investigation of reversible histone acetylation and dynamics in gene expression regulation using 3D liver spheroid model

Stephanie Stransky, Ronald Cutler, Jennifer Aguilan, Edward Nieves, and Simone Sidoli

Epigenetics Chromatin. 2022; 15: 35

<https://epigeneticsandchromatin.biomedcentral.com/articles/10.1186/s13072-022-00470-7>

TNF α -induced metabolic reprogramming drives an intrinsic anti-viral state

Jessica Ciesla, Isreal Moreno Jr., Joshua Munger

PLoS Pathog. 2022 Jul; 18(7): e1010722

<https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1010722>

Towards a hypothesis-free understanding of how Phosphorylation dynamically impacts protein turnover

Wenxue Li, Barbora Salovska, Eugenio F. Fornasiero, Yansheng Liu

PROTEOMICS 2022

<https://analyticalsciencejournals.onlinelibrary.wiley.com/doi/10.1002/pmic.202100387>

Repair mechanism of Wuwei Fuzheng Yijing formula in di-2-ethylhexyl phthalate-induced sperm DNA fragmentation in mice

Chenming Zhang, Shiqi Wang, Zulong Wang, Qi Zhang, Rubing Chen, Hao Zhang, Zhong Hua & Sicheng Ma

Pharmaceutical Biology, Volume 60, 2022 - Issue 1

<https://www.tandfonline.com/doi/full/10.1080/13880209.2022.2089694>

Proteome Changes Associated with the VEGFR Pathway and Immune System in Diabetic Macular Edema Patients at Different Diabetic Retinopathy Stages

Ruyi Han, Ruowen Gong, Wei Liu & Gezhi Xu

Current Eye Research, Volume 47, 2022 - Issue 7

<https://www.tandfonline.com/doi/full/10.1080/02713683.2022.2068181>

Membrane proteomic profiling enhances drug target detection

Hsin-Ju Chan, Li-Yu Chen, Huan-Chi Chiu, Yu-Ju Chen

Journal of the Chinese Chemical Society Volume 69, Issue 8 First published: 11 September 2022

<https://onlinelibrary.wiley.com/doi/abs/10.1002/jccs.202200265>

Ezrin deficiency triggers glial fibrillary acidic protein upregulation and a distinct reactive astrocyte phenotype

Stephan Schacke, Joanna Kirkpatrick, Amy Stocksdales, Reinhard Bauer, Christian Hagel, Lars Björn Riecken, Helen Morrison

Glia. 2022 Dec;70(12):2309-2329

<https://onlinelibrary.wiley.com/doi/10.1002/glia.24253>

Hypoxia reveals a new function of Foxn1 in the keratinocyte antioxidant defense system

Sylwia Machcinska, Katarzyna Walendzik, Marta Kopcewicz, Joanna Wisniewska, Anne Rokka, Mirva Pääkkönen, Mariola Slowinska, Barbara Gawronska-Kozak

FASEB J. 2022 Aug;36(8):e22436

<https://faseb.onlinelibrary.wiley.com/doi/10.1096/fj.202200249RR>

Abrogation of graft ischemia-reperfusion injury in ischemia-free liver transplantation

Zhiyong Guo, Jinghong Xu, Shanzhou Huang, Meixian Yin, Qiang Zhao, Weiqiang Ju, Dongping Wang, Ningxin Gao, Changjun Huang, Lu Yang, Maogen Chen, Zhiheng Zhang, Zebin Zhu, Linhe Wang, Caihui Zhu, Yixi Zhang, Yunhua Tang, Haitian Chen, Kunpeng Liu, Yuting Lu, Yi Ma, Anbin Hu, Yinghua Chen, Xiaofeng Zhu, Xiaoshun He

Clin Transl Med. 2022 Apr;12(4):e546

<https://onlinelibrary.wiley.com/doi/10.1002/ctm2.546>

DIA mass spectrometry characterizes urinary proteomics in neonatal and adult donkeys

Feng Yu, Yifan Chen, Bo Liu, Tao Wang, Zhaoliang Ding, Ziwen Yi, Yiping Zhu & Jing Li *Scientific Reports* volume 12, Article number: 22590 (2022)

<https://www.nature.com/articles/s41598-022-27245-0>

AmiA and AliA peptide ligands are secreted by *Klebsiella pneumoniae* and inhibit growth of *Streptococcus pneumoniae*

Janine Lux, Lalaina Holivololona, Raquel San Millan Gutierrez, Markus Hilty, Alban Ramette, Manfred Heller & Lucy J. Hathaway

Scientific Reports volume 12, Article number: 22268 (2022)

<https://www.nature.com/articles/s41598-022-26838-z>

Sphingolipid subtypes differentially control proinsulin processing and systemic glucose homeostasis

Kerstin Griess, Michael Rieck, Nadine Müller, Gergely Karsai, Sonja Hartwig, Angela Pelligra, Robert Hardt, Caroline Schlegel, Jennifer Kuboth, Celina Uhlemeyer, Sandra Trenkamp, Kay Jeruschke, Jürgen Weiss, Leon Peifer-Weiss, Weiwei Xu, Sandra Cames, Xiaoyan Yi, Miriam Cnop, Mathias Beller, Holger Stark, Arun Kumar Kondadi, Andreas S. Reichert, Daniel Markgraf, Marianne Wammers, Dieter Häussinger, Oliver Kuss, Stefan Lehr, Decio Eizirik, Heiko Lickert, Eckhard Lammert, Michael Roden, Dominic Winter, Hadi Al-Hasani, Doris Höglinger, Thorsten Hornemann, Jens C. Brüning & Bengt-Frederik Belgardt

Nature Cell Biology (2022)

<https://www.nature.com/articles/s41556-022-01027-2>

Proteome-wide structural changes measured with limited proteolysis-mass spectrometry: an advanced protocol for high-throughput applications

Liliana Malinovska, Valentina Cappelletti, Devon Kohler, Ilaria Piazza, Tsung-Heng Tsai, Monika Pepelnjak, Patrick Stalder, Christian Dörig, Fabian Sesterhenn, Franziska Elsässer, Lucie Kralickova, Nigel Beaton, Lukas Reiter, Natalie de Souza, Olga Vitek & Paola Picotti

Nature Protocols (2022)

<https://www-nature-com.uml.idm.oclc.org/articles/s41596-022-00771-x>

Complementary hepatic metabolomics and proteomics reveal the adaptive mechanisms of dairy cows to the transition period

Jun Zhang, Naren Gaowa, Yajing Wang, Huanxu Li, Zhijun Cao, Hongjian Yang, Xiaoming Zhang, Shengli Li

Journal of Dairy Science 2022

<https://www.sciencedirect.com/science/article/pii/S0022030222007470>

Histopathologic and proteogenomic heterogeneity reveals features of clear cell renal cell carcinoma aggressiveness

Yize Li, Tung-Shing M. Lih, Saravana M. Dhanasekaran, Rahul Mannan, Lijun Chen, Marcin Cieslik, Yige Wu, Rita Jiu-Hsien Lu, David J. Clark, Iga Kołodziejczak, Runyu Hong, Siqi Chen, Yanyan Zhao, Seema Chugh, Wagma Caravan, Nataly Naser Al Deen, Noshad Hosseini, Chelsea J. Newton, Karsten Krug, Yuanwei Xu, Kyung-Cho Cho, Yingwei Hu, Yuping Zhang, Chandan Kumar-Sinha, Weiping Ma, Anna Calinawan, Matthew A. Wyczalkowski, Michael C. Wendl, Yuefan Wang, Shenghao Guo, Cissy Zhang, Anne Le, Aniket Dagar, Alex Hopkins, Hanbyul Cho, Felipe da Veiga Leprevost, Xiaojun Jing, Guo Ci Teo, Wenke Liu, Melissa A. Reimers, Russell Pachynski, Alexander J. Lazar, Arul M. Chinnaiyan, Brian A. Van Tine, Bing Zhang, Karin D. Rodland, Gad Getz, D.R. Mani, Pei Wang, Feng Chen, Galen Hostetter, Mathangi Thiagarajan, W. Marston Linehan, David Fenyö, Scott D. Jewell, Gilbert S. Omenn, Rohit Mehra, Maciej Wiznerowicz, Ana I. Robles, Mehdi Mesri, Tara Hiltke, Eunkyung An, Henry Rodriguez, Daniel W.

Chan, Christopher J. Ricketts, Alexey I. Nesvizhskii, Hui Zhang, Li Ding, Alicia Francis, Amanda G. Paulovich, Andrzej Antczak, Anthony Green, Antonio Colaprico, Ari Hakimi, Barb Pruetz, Barbara Hindenach, Birendra Kumar Yadav, Boris Reva, Brenda Fevrier-Sullivan, Brian J. Druker, Cezary Szczylik, Charles A. Goldthwaite, Chet Birger, Corbin D. Jones, Daniel C. Rohrer, Darlene Tansil, David Chesla, David Heiman, Elizabeth Duffy, Eri E. Schadt, Francesca Petralia, Gabriel Bromiński, Gabriela M. Quiroga-Garza, George D. Wilson, Ginny Xiaohe Li, Grace Zhao, Yi Hsiao, James Hsieh, Jan Lubiński, Jasmin Bavarva, Jasmine Huang, Jason Hafron, Jennifer Eschbacher, Jennifer Hon, Jesse Francis, John Freymann, Josh Vo, Joshua Wang, Justin Kirby, Kakhaber Zaalishvili, Karen A. Ketchum, Katherine A. Hoadley, Ki Sung Um, Liqun Qi, Marcin J. Domagalski, Matt Tobin, Maureen Dyer, Meenakshi Anurag, Melissa Borucki, Michael A. Gillette, Michael J. Birrer, Michael M. Ittmann, Michael H. Roehrl, Michael Schnaubelt, Michael Smith, Mina Fam, Nancy Roche, Negin Vatanian, Nicollette Maunganidze, Olga Potapova, Oxana V. Paklina, Pamela VanderKolk, Patricia Castro, Paweł Kurzawa, Pushpa Hariharan, Qin Li, Qing Kay Li, Rajiv Dhir, Ratna R. Thangudu, Rebecca Montgomery, Richard D. Smith, Sailaja Mareedu, Samuel H. Payne, Sandra Cerda, Sandra Cottingham, Sarah Haynes, Shankha Satpathy, Shannon Richey, Shilpi Singh, Shirley X. Tsang, Shuang Cai, Song Cao, Stacey Gabriel, Steven A. Carr, Tao Liu, Thomas Bauer, Toan Le, Xi S. Chen, Xu Zhang, Yvonne Shutack, Zhen Zhang,
Cancer Cell Volume 41, Issue 1, 2023, Pages 139-163.e17

<https://www.sciencedirect.com/science/article/pii/S1535610822005657>

Next-generation proteomics of serum extracellular vesicles combined with single-cell RNA sequencing identifies MACROH2A1 associated with refractory COVID-19

Takahiro Kawasaki, Yoshito Takeda, Ryuya Eda, Yuya Shirai, Mari Nogami-Ito, Takanori Matsuki, Hiroshi Kida, Takatoshi Enomoto, Reina Hara, Yoshimi Noda, Yuichi Adachi, Takayuki Niitsu, Saori Amiya, Yuta Yamaguchi, Teruaki Murakami, Yasuhiro Kato, Takayoshi Morita, Hanako Yoshimura, Makoto Yamamoto, Daisuke Nakatsubo, Kotaro Miyake, Takayuki Shiroyama, Haruhiko Hirata, Jun Adachi, ...Atsushi Kumanogoh

Inflammation and Regeneration volume 42, Article number: 53 (2022)

<https://inflammregen.biomedcentral.com/articles/10.1186/s41232-022-00243-5>

N6-methyladenosine (m6A) reader Pho92 is recruited co-transcriptionally and couples translation to mRNA decay to promote meiotic fitness in yeast

Radhika A Varier, Theodora Sideri, Charlotte Capitanich, Zornitsa Manova, Enrica Calvani, Alice Rossi, Raghu R Edupuganti, Imke Ensink, Vincent W C Chan, Harshil Patel, Joanna Kirkpatrick, Peter Faull, Ambrosius P Snijders, Michiel Vermeulen, Markus Ralser, Jernej Ule, Nicholas M Luscombe, Folkert J van Werven

eLife 11:e84034, 2022

<https://elifesciences.org/articles/84034>

Proteomic Landscape of Human Spermatozoa: Optimized Extraction Method and Application

Luo, Mengqi, Tao Su, Shisheng Wang, Jianhai Chen, Tianhai Lin, Qingyuan Cheng, Younan Chen, Meng Gong, Hao Yang, Fuping Li, and Yong Zhang

Cells 11, no. 24: 4064, 2022

<https://www.mdpi.com/2073-4409/11/24/4064>

Oxidative Stress and Extracellular Matrix Remodeling Are Signature Pathways of Extracellular Vesicles Released upon Morphine Exposure on Human Brain Microvascular Endothelial Cells

Vujić, Tatjana, Domitille Schvartz, Izadora Lirango Furlani, Isabel Meister, Víctor González-Ruiz, Serge Rudaz, and Jean-Charles Sanchez

Cells 11, no. 23: 3926, 2022

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