

2021

Mou T, Pawitan Y, Stahl M, Vesterlund M, Deng W, Jafari R, Bohlin A, Österroos A, Siavelis L, Bäckvall H, Erkers T, Kiviluoto S, Seashore-Ludlow B, Östling P, Orre LM, Kallioniemi O, Lehmann S, Lehtiö J, Vu TN.

The transcriptome-wide landscape of molecular subtype-specific mRNA expression profiles in acute myeloid leukemia.

Am J Hematol. 2021 May 1;96(5):580-588. doi: 10.1002/ajh.26141. Epub 2021 Mar 10.

<https://pubmed.ncbi.nlm.nih.gov/33625756/>

2020

Tampere M, Pettke A, Salata C, Wallner O, Koolmeister T, Cazares-Körner A, Visnes T, Hesselman MC, Kunold E, Wiita E, Kalderén C, Lightowler M, Jemth AS, Lehtiö J, Rosenquist Å, Warpman-Berglund U, Helleday T, Mirazimi A, Jafari R, Puumalainen MR

Novel Broad-Spectrum Antiviral Inhibitors Targeting Host Factors Essential for Replication of Pathogenic RNA Viruses

Viruses. 2020 Dec 10;12(12):1423. doi: 10.3390/v12121423.

<https://pubmed.ncbi.nlm.nih.gov/33322045/>

van Westering TLE, Johansson HJ, Hanson B, Coenen-Stass AML, Lomonosova Y, Tanihata J, Motohashi N, Yokota T, Takeda S, Lehtiö J, Wood MJA, El Andaloussi S, Aoki Y, Roberts TC.

Mutation-independent proteomic signatures of pathological progression in murine models of Duchenne muscular dystrophy

Mol Cell Proteomics 2020 Sep 29;mcp.RA120.002345. doi: 10.1074/mcp.RA120.002345.

<https://pubmed.ncbi.nlm.nih.gov/32994316/>

Lytrivi M, Ghaddar K, Lopes M, Rosengren V, Piron A, Yi X, Johansson H, Lehtiö J, Igoillo-Esteve M, Cunha DA, Marselli L, Marchetti P, Ortsäter H, Eizirik DL, Cnop M.

Combined transcriptome and proteome profiling of the pancreatic β -cell response to palmitate unveils key pathways of β -cell lipotoxicity

BMC Genomics 2020 Aug 26;21(1):590. doi: 10.1186/s12864-020-07003-0

<https://pubmed.ncbi.nlm.nih.gov/32847508/>

Mäkelä R, Arjonen A, Suryo Rahmanto A, Härmä V, Lehtiö J, Kuopio T, Helleday T, Sangfelt O, Kononen J, Rantala JK.

Ex vivo assessment of targeted therapies in a rare metastatic epithelial-myoepithelial carcinoma

Neoplasia 2020 Sep;22(9):390-398. doi: 10.1016/j.neo.2020.06.007.

<https://pubmed.ncbi.nlm.nih.gov/32645560/>

Tamborero D, Dienstmann R, Rachid MH, Boekel J, Baird R, Braña I, De Petris L, Yachnin J, Massard C, Opdam FL, Schlenk R, Vernieri C, Garralda E, Masucci M, Villalobos X, Chavarria E; Cancer Core Europe consortium, Calvo F, Fröhling S, Eggermont A, Apolone G, Voest EE, Caldas C, Tabernero J, Ernberg I, Rodon J, Lehtiö J

Support systems to guide clinical decision-making in precision oncology: The Cancer Core Europe Molecular Tumor Board Portal

Nat Med 202). Jul;26(7):992-994. doi: 10.1038/s41591-020-0969-2

<https://www.nature.com/articles/s41591-020-0969-2>

Brunner A, Suryo Rahmanto A, Johansson H, Franco M, Villiäinen J, Gazi M, Frings O, Fredlund E, Spruck C, Lehtiö J, Rantala JK, Larsson LG, Sangfelt O.

PTEN and DNA-PK Determine Sensitivity and Recovery in Response to WEE1 Inhibition in Human Breast Cancer

Elife. 2020 Jul 6;9:e57894. doi:10.7554/eLife.57894.

<https://pubmed.ncbi.nlm.nih.gov/32628111/>

Babacic H, Lehtiö J, Pico de Cohana Y, Pernemalm M, Eriksson H.

In-depth plasma proteomics reveals increase in circulating PD-1 during anti-PD-1 immunotherapy in patients with metastatic cutaneous melanoma

J Immunother Cancer. 2020 May;8(1):e000204. doi: 10.1136/jitc-2019-000204.

<https://pubmed.ncbi.nlm.nih.gov/32457125/>

Zhou Tran Y, Minozada R, Cao X, Johansson HJ, Branca RM, Seashore-Ludlow B, Orre LM.

Immediate Adaptation Analysis Implicates BCL6 as an EGFR-TKI Combination Therapy Target in NSCLC

Mol Cell Proteomics. 2020 Jun;19(6):928-943. doi: 10.1074/mcp.RA120.002036.

<https://pubmed.ncbi.nlm.nih.gov/32234966/>

Zhu Y, Orre LM, Zhou Tran Y, Mermelekas G, Johansson HJ, Malyutina A, Anders S, Lehtiö J.

DEqMS: a method for accurate variance estimation in differential protein expression analysis.

Mol Cell Proteomics. 2020 Jun;19(6):1047-1057. doi: 10.1074/mcp.TIR119.001646.

<https://pubmed.ncbi.nlm.nih.gov/32205417/>

Rad Pour S, Morikawa H, Kiani NA, Gomez-Cabrero D, Hayes A, Zheng X, Pernemalm M, Lehtiö J, Mole DJ, Hansson J, Eriksson H, Tegnér J.

Immunometabolic Network Interactions of the Kynurenine Pathway in Cutaneous

Malignant Melanoma. *Front Oncol*. 2020 Feb 3;10:51. doi: 10.3389/fonc.2020.00051.

<https://pubmed.ncbi.nlm.nih.gov/32117720/>

Herr P, Boström J, Rullman E, Rudd SG, Vesterlund M, Lehtiö J, Helleday T, Maddalo G, Altun M.

Cell Cycle Profiling Reveals Protein Oscillation, Phosphorylation, and Localization Dynamics.

Mol Cell Proteomics. 2020 Apr;19(4):608-623. doi: 10.1074/mcp.RA120.001938.

<https://pubmed.ncbi.nlm.nih.gov/32051232/>

Rudd SG, Tsesmetzis N, Sanjiv K, Paulin CB, Sandhow L, Kutzner J, Hed Myrberg I, Bunten SS, Axelsson H, Zhang SM, Rasti A, Mäkelä P, Coggins SA, Tao S, Suman S, Branca RM, Mermelekas G, Wiita E, Lee S, Walfridsson J, Schinazi RF, Kim B, Lehtiö J, Rassidakis GZ, Pokrovskaja Tamm K, Warpman-Berglund U, Heyman M, Grandér D, Lehmann S, Lundbäck T, Qian H, Henter JI, Schaller T, Helleday T, Herold N.

Ribonucleotide reductase inhibitors suppress SAMHD1 ara-CTPase activity enhancing cytarabine efficacy.

EMBO Mol Med. 2020 Mar 6;12(3):e10419. doi: 10.15252/emmm.201910419.

<https://pubmed.ncbi.nlm.nih.gov/31950591/>

Rykaczewska U, Suur BE, Röhl S, Razuvaev A, Lengquist M, Sabater-Lleal M, van der Laan SW, Miller CL, Wirka RC, Kronqvist M, Gonzalez Diez M, Vesterlund M, Gillgren P, Odeberg J, Lindeman JH, Veglia F, Humphries SE, de Faire U, Baldassarre D, Tremoli E; IMPROVE study group, Lehtiö J, Hansson GK, Paulsson-Berne G, Pasterkamp G, Quertermous T, Hamsten A, Eriksson P, Hedin U, Matic L.

PCSK6 Is a Key Protease in the Control of Smooth Muscle Cell Function in Vascular Remodeling.

Circ Res. 2020 Feb 28;126(5):571-585. doi: 10.1161/CIRCRESAHA.119.316063.

<https://pubmed.ncbi.nlm.nih.gov/31893970/>

2019

Joshi RN, Stadler C, Lehmann R, Lehtiö J, Tegnér J, Schmidt A, Vesterlund M.

TcellSubC: An Atlas of the Subcellular Proteome of Human T Cells.

Front Immunol. 2019 Nov 26;10:2708. doi: 10.3389/fimmu.2019.02708

<https://pubmed.ncbi.nlm.nih.gov/31849937/>

Levitsky A, Pernemalm M, Bernhardson BM, Forshed J, Kölbeck K, Olin M, Henriksson R, Lehtiö J, Tishelman C, Eriksson LE.

Early symptoms and sensations as predictors of lung cancer: a machine learning multivariate model.

Sci Rep. 2019 Nov 11;9(1):16504. doi: 10.1038/s41598-019-52915-x

<https://pubmed.ncbi.nlm.nih.gov/31712735/>

Oliynyk G, Ruiz-Pérez MV, Sainero-Alcolado L, Dzieran J, Zirath H, Gallart-Ayala H, Wheelock CE, Johansson HJ, Nilsson R, Lehtiö J, Arsenian-Henriksson M.

MYCN-enhanced Oxidative and Glycolytic Metabolism Reveals Vulnerabilities for Targeting Neuroblastoma.

iScience. 2019 Nov 22;21:188-204. doi: 10.1016/j.isci.2019.10.020.

<https://pubmed.ncbi.nlm.nih.gov/31670074/>

Ivanova A, Gill-Hille M, Huang S, Branca RM, Kmiec B, Teixeira PF, Lehtiö J, Whelan J, Murcha MW.

A mitochondrial LYR Protein is required for complex I assembly.

Plant Physiol. 2019 Dec;181(4):1632-1650. doi: 10.1104/pp.19.00822.

<https://pubmed.ncbi.nlm.nih.gov/31601645/>

Ross JM, Coppotelli G, Branca RM, Kim KM, Lehtiö J, Sinclair DA, Olson L.

Voluntary exercise normalizes the proteomic landscape in muscle and brain and improves the phenotype of progeroid mice.

Aging Cell. 2019 Dec;18(6):e13029. doi: 10.1111/acer.13029. Epub 2019 Sep 6.

<https://pubmed.ncbi.nlm.nih.gov/31489782/>

Panizza E, Zhang L, Fontana JM, Hamada K, Svensson D, Akkuratov EE, Scott L, Mikoshiba K, Brismar H, Lehtiö J, Aperia A.

Ouabain-regulated phosphoproteome reveals molecular mechanisms for Na⁺, K⁺-ATPase control of cell adhesion, proliferation, and survival

FASEB J. 2019 Jul 10:fj201900445R. doi: 10.1096/fj.201900445R.

<https://pubmed.ncbi.nlm.nih.gov/31199885/>

Fredolini C, Byström S, Sanchez-Rivera L, Ioannou M, Tamburro D, Pontén F, Branca RM, Nilsson P, Lehtiö J, Schwenk JM.

Systematic assessment of antibody selectivity in plasma based on a resource of enrichment profiles.

Sci Rep. 2019 Jun 6;9(1):8324. doi: 10.1038/s41598-019-43552-5.

<https://pubmed.ncbi.nlm.nih.gov/31171813/>

Ezzat K, Pernemalm M, Pålsson S, Roberts TC, Järver P, Dondalska A, Bestas B, Sobkowiak MJ, Levänen B, Sköld M, Thompson EA, Saher O, Kari OK, Lajunen T, Sverremark Ekström E, Nilsson C, Ishchenko Y, Malm T, Wood MJA, Power UF, Masich S, Lindén A, Sandberg JK, Lehtiö J, Spetz AL, El Andaloussi S.

The viral protein corona directs viral pathogenesis and amyloid aggregation.

Nat Commun. 2019 May 27;10(1):2331.

<https://pubmed.ncbi.nlm.nih.gov/31133680/>

Johansson HJ, Socciarelli F, Vacanti NM, Haugen MH, Zhu Y, Siavelis I, Fernandez A, Aure MR, Sennblad B, Vesterlund M, Branca RM, Orre LM, Huss M, Fredlund E, Beraki E, Garred Ø, Boekel J, Sauer T, Zhao W, Nord S, Högländer EK, Jans CD, Brismar H,

Haukaas TH, Bathen TF, Schlichting E, Naume B, OSBREAC, Luders T, Borgen E, Kristensen VN, Russnes HG, Lingjærde OC, Mills GB, Sahlberg KK, Børresen-Dale A.L, Lehtiö J.

Breast cancer quantitative proteome and proteogenomic landscape.

Nat Comm, 2019 Apr 8;10(1):1600.

<https://www.ncbi.nlm.nih.gov/pubmed/30962452>

Pernemalm M, Sandberg A, Zhu Y, Boekel J, Tamburro D, Schwenk JM, Bjork A, Wahren-Herlenius M, Amark H, Ostenson C.G, Westgren M, Lehtiö J.

In-depth human plasma proteome analysis captures tissue proteins and transfer of protein variants across the placenta.

eLife, 2019 Apr. 8;8. pii: e41608.

<https://www.ncbi.nlm.nih.gov/pubmed/30958262>

Yang M, Vesterlund M, Siavelis I, Moura-Castro L, Castor A, Fioretos T, Jafari R, Lilljebjörn H, Odom D, Olsson L, Ravi N, Woodward E, Harewood L, Lehtiö J, Paulsson K.

Proteogenomics and Hi-C reveal transcriptional dysregulation in high hyperdiploid childhood acute lymphoblastic leukemia.

Nat Commun, 2019 Apr 3;10(1):1519.

<https://www.ncbi.nlm.nih.gov/pubmed/30944321>

Idborg H, Zandian A, Sandberg AS, Nilsson B, Elvin K, Truedsson L, Sohrabian A, Rönnelid J, Mo J, Grosso G, Kvarnström M, Gunnarsson I, Lehtiö J, Nilsson P, Svenungsson E, Jakobsson PJ.

Two subgroups in systemic lupus erythematosus with features of antiphospholipid or Sjögren's syndrome differ in molecular signatures and treatment perspectives.

Arthritis Res Ther. 2019 Feb 18;21(1):62.

<https://www.ncbi.nlm.nih.gov/pubmed/30777133>

Indira Chandran V, Welinder C, Månsson AS, Offer S, Freyhult E, Pernemalm M, Lund SM, Pedersen S, Lehtiö J, Marko-Varga G, Johansson MC, Englund EM, Sundgren PC, Belting M.

Ultrasensitive immunoprofiling of plasma extracellular vesicles identifies syndecan-1 as a potential tool for minimally invasive diagnosis of glioma.

Clin Cancer Res. 2019 Jan 24.

<https://www.ncbi.nlm.nih.gov/pubmed/30679164>

Orre LM, Vesterlund M, Pan Y, Arslan T, Zhu Y, Fernandez Woodbridge A, Frings O, Fredlund E, Lehtiö J.

SubCellBarCode: Proteome-wide mapping of protein localization and relocalization.

Mol Cell. 2019 Jan 3;73(1):166-182.

<https://www.ncbi.nlm.nih.gov/pubmed/30609389>

2018

Kmiec B, Branca RMM, Berkowitz O, Li L, Wang Y, Murcha MW, Whelan J, Lehtiö J, Glaser E, Teixeira PF.

Accumulation of endogenous peptides triggers a pathogen stress response in *Arabidopsis thaliana*.

Plant J. 2018 Nov 22. Nov;96(4):705-715.

<https://www.ncbi.nlm.nih.gov/pubmed/30242930>

Järver P, Dondalska A, Poux C, Sandberg A, Bergenstråhle J, Sköld AE, Dereuddre-Bosquet N, Martinon F, Pålsson S, Zaghloul E, Brodin D, Sander B, Lennox KA, Behlke MA, El-Andaloussi S, Lehtiö J, Lundberg J, LeGrand R, Spetz AL.

Single-Stranded Nucleic Acids Regulate TLR3/4/7 Activation through Interference with Clathrin-Mediated Endocytosis.

Sci Rep. 2018 Oct 26;8(1):15841.

<https://www.ncbi.nlm.nih.gov/pubmed/30367171>

Matic LP, Jesus Iglesias M, Vesterlund M, Lengquist M, Hong MG, Saieed S, Sanchez-Rivera L, Berg M, Razuvaev A, Kronqvist M, Lund K, Caidahl K, Gillgren P, Pontén F, Uhlén M, Schwenk JM, Hansson GK, Paulsson-Berne G, Fagman E, Roy J, Hultgren R, Bergström G, Lehtiö J, Odeberg J, Hedin U.

Novel Multiomics Profiling of Human Carotid Atherosclerotic Plaques and Plasma Reveals Biliverdin Reductase B as a Marker of Intraplaque Hemorrhage.

JACC Basic Transl Sci. 2018 Aug 1;3(4):464-480.

<https://www.ncbi.nlm.nih.gov/pubmed/30175270>

Dyczynski M, Vesterlund M, Björklund AC, Zachariadis V, Janssen J, Gallart-Ayala H, Daskalaki E, Wheelock CE, Lehtiö J, Grandér D, Tamm KP, Nilsson R.

Metabolic reprogramming of acute lymphoblastic leukemia cells in response to glucocorticoid treatment.

Cell Death Dis. 2018 Aug 28;9(9):846

<https://www.ncbi.nlm.nih.gov/pubmed/30154400>

Sork H, Corso G, Krjutskov K, Johansson HJ, Nordin JZ, Wiklander OPB, Lee YXF, Westholm JO, Lehtiö J, Wood MJA, Mäger I, El Andaloussi S.

Heterogeneity and interplay of the extracellular vesicle small RNA transcriptome and proteome.

Sci Rep. 2018 Jul 17;8 (1):10813.

<https://www.ncbi.nlm.nih.gov/pubmed/30018314>

Johansson HJ, Vallhov H, Holm T, Gehrman U, Andersson A, Johansson C, Blom H, Carroni M, Lehtiö J, Scheynius A.

Extracellular nanovesicles released from the commensal yeast *Malassezia sympodialis* are enriched in allergens and interact with cells in human skin.

Sci Rep. 2018 Jun 15;8(1):9182.

<https://www.ncbi.nlm.nih.gov/pubmed/29907748>

Wei B, Jolma A, Sahu B, Orre LM, Zhong F, Zhu F, Kivioja T, Sur I, Lehtiö J, Taipale M, Taipale J.

A protein activity assay to measure global transcription factor activity reveals determinants of chromatin accessibility.

Nat Biotechnol. 2018 Jul;36(6):521-529.

<https://www.ncbi.nlm.nih.gov/pubmed/29786094>

Schmidt A, Marabita F, Kiani NA, Gross CC, Johansson HJ, Éliás S, Rautio S, Eriksson M, Fernandes SJ, Silberberg G, Ullah U, Bhatia U, Lähdesmäki H, Lehtiö J, Gomez-Cabrero D, Wiendl H, Lahesmaa R, Tegnér J.

Time-resolved transcriptome and proteome landscape of human regulatory T cell (Treg) differentiation reveals novel regulators of FOXP3.

BMC Biol. 2018 May 7;16(1):47. doi: 10.1186/s12915-018-0518-3.

<https://www.ncbi.nlm.nih.gov/pubmed/29730990>

Zhu Y, Orre LM, Johansson HJ, Huss M, Boekel J, Vesterlund M, Fernandez-Woodbridge A, Branca RMM, Lehtiö J.

Discovery of coding regions in the human genome by integrated proteogenomics analysis workflow.

Nat Commun. 2018 Mar 2;9(1):903.

<https://www.ncbi.nlm.nih.gov/pubmed/29500430>

<https://www.ncbi.nlm.nih.gov/pubmed/29739940>

Dzieran J, Rodriguez Garcia A, Westermarck UK, Henley AB, Eyre Sánchez E, Träger C, Johansson HJ, Lehtiö J, Arsenian-Henriksson M.

MYCN-amplified neuroblastoma maintains an aggressive and undifferentiated phenotype by deregulation of estrogen and NGF signaling.

Proc Natl Acad Sci U S A. 2018 Feb 6;115(6):E1229-E1238.

<https://www.ncbi.nlm.nih.gov/pubmed/29374092>

Bereczki E, Branca RM, Francis PT, Pereira JB, Baek JH, Hortobágyi T, Winblad B, Ballard C, Lehtiö J, Aarsland D.

Synaptic markers of cognitive decline in neurodegenerative diseases: a proteomic approach.

Brain. 2018 Feb 1;141(2):582-595. doi: 10.1093/brain/awx352.

<https://www.ncbi.nlm.nih.gov/pubmed/29324989>

Nassa G, Giurato G, Cimmino G, Rizzo F, Ravo M, Salvati A, Nyman TA, Zhu Y, Vesterlund M, Lehtiö J, Golino P, Weisz A, Tarallo R.

Splicing of platelet resident pre-mRNAs upon activation by physiological stimuli results in functionally relevant proteome modifications.

Sci Rep. 2018 Jan 11;8(1):498.

<https://www.ncbi.nlm.nih.gov/pubmed/29323256>

2017

Teixeira P.F. , Masuyer G., Pinho C.M., Branca R.M.M., Kmiec B., Wallin C., Wärmländer S.K.T.S., Berntsson R.P.A., Ankarcrona M., Gräslund A., Lehtiö J, Stenmark P, Glaser E.

Mechanism of peptide binding and cleavage by the human mitochondrial peptidase neurolysin.

J Mol Biol. 2018 Feb 2;430(3):348-362.

<https://www.ncbi.nlm.nih.gov/pubmed/29183787>

Kmiec B., Branca R.M.M., Murcha M.W., Lehtiö J., Glaser E., and Teixeira P.F.

A common peptidolytic mechanism for targeting peptide degradation in mitochondria and chloroplasts.

Mol Plant. 2018 Feb 5;11(2):342-345.

<https://www.ncbi.nlm.nih.gov/pubmed/29183773>

Murie C, Sandri B, Sandberg AS, Griffin TJ, Lehtiö J, Wendt C, Larsson O.

Normalization of mass spectrometry data (NOMAD).

Adv Biol Regul. 2018 Jan;67:128-133.

<https://www.ncbi.nlm.nih.gov/pubmed/29174395>

Egaña I, Kaito H, Nitzsche A, Becker L, Ballester-Lopez C, Niaudet C, Petkova M, Liu W, Vanlandewijck M, Vernaleken A, Klopstock T, Fuchs H, Gailus-Durner V, Hrabe de Angelis M, Rask-Andersen H, Johansson HJ, Lehtiö J, He L, Yildirim AÖ, Hellström M; German Mouse Clinic Consortium.

Female mice lacking Pald1 exhibit endothelial cell apoptosis and emphysema.

Sci Rep. 2017 Nov 13;7(1):15453.

<https://www.ncbi.nlm.nih.gov/pubmed/29133847>

Zhao M, Spiess M, Johansson HJ, Olofsson H, Hu J, Lehtiö J, Strömblad S.

Identification of the PAK4 interactome reveals PAK4 phosphorylation of N-WASP and promotion of Arp2/3-dependent actin polymerization.

Oncotarget. 2017 Aug 18;8(44):77061-77074.

<https://www.ncbi.nlm.nih.gov/pubmed/29100370>

Azimi A, Tuominen R, Costa Svedman F, Caramuta S, Pernemalm M, Frostvik Stolt M, Kanter L, Kharaziha P, Lehtiö J, Hertzman Johansson C, Höiom V, Hansson J, Egyhazi Brage S.

Silencing FLI or targeting CD13/ANPEP lead to dephosphorylation of EPHA2, a mediator of BRAF inhibitor resistance, and induce growth arrest or apoptosis in melanoma cells.

Cell Death Dis. 2017 Aug 31;8(8):e3029

<https://www.ncbi.nlm.nih.gov/pubmed/29048432>

Lu M, Kjellin H, Fotouhi O, Lee L, Nilsson IL, Haglund F, Höög A, Lehtiö J, Larsson C.

Molecular profiles of oxyphilic and chief cell parathyroid adenoma.

Mol Cell Endocrinol. 2018 Jul 15;470:84-95.

<https://www.ncbi.nlm.nih.gov/pubmed/28986304>

Reithmeier A, Panizza E, Krumpel M, Orre LM, Branca RMM, Lehtiö J, Ek-Rylander B, Andersson G.

Tartrate-resistant acid phosphatase (TRAP/ACP5) promotes metastasis-related properties via TGF β 2/T β R and CD44 in MDA-MB-231 breast cancer cells.

BMC Cancer. 2017 Sep 15;17(1):650

<https://www.ncbi.nlm.nih.gov/pubmed/28915803>

Panizza E, Branca R.M.M, Oliviusson P, Orre L.M., Lehtiö J.,

Isoelectric point-based fractionation by HiRIEF coupled to LC-MS allows for in-depth quantitative analysis of the phosphoproteome.

Sci Rep. 2017 Jul 3;7(1):4513.

<https://www.ncbi.nlm.nih.gov/pubmed/28674419>

Lindahl A, Sääf S, Lehtiö J, Nordström A.

Tuning Metabolome Coverage in Reversed Phase LC-MS Metabolomics of MeOH Extracted Samples Using the Reconstitution Solvent Composition.

Analytical Chem. 2017 Jul 18;89(14):7356-7364.

<https://www.ncbi.nlm.nih.gov/pubmed/28613827>

Lindahl A, Heuchel R, Forshed J, Lehtiö J, Löhr M, Nordström A.

Discrimination of pancreatic cancer and pancreatitis by LC-MS metabolomics.

Metabolomics. 2017;13(5):61.

<https://www.ncbi.nlm.nih.gov/pubmed/28413374>

Muthusamy S, Lundin D, Mamede Branca RM, Baltar F, González JM, Lehtiö J, Pinhassi J.

Comparative proteomics reveals signature metabolisms of exponentially growing and stationary phase marine bacteria.

Environ Microbiol. **2017 Jun**;19(6):2301-2319

<https://www.ncbi.nlm.nih.gov/pubmed/28371138>

Kifer I, Branca RM, Ben-Dor A, Zhai L, Xu P, Lehtio J, Yakhini Z.

Optimizing Analytical Depth and Cost Efficiency of IEF-LC/MS Proteomics.

IEEE/ACM Trans Comput Biol Bioinform. **2017 Mar-Apr**;14(2):272-281.

<https://www.ncbi.nlm.nih.gov/pubmed/28368805>

Zhu Y, Engström PG, Tellgren-Roth C, Baudo CD, Kennell JC, Sun S, Billmyre RB, Schröder MS, Andersson A, Holm T, Sigurgeirsson B, Wu G, Sankaranarayanan SR, Siddharthan R, Sanyal K, Lundberg J, Nystedt B, Boekhout T, Dawson TL Jr, Heitman J, Scheynius A, Lehtiö J.

Proteogenomics produces comprehensive and highly accurate protein-coding gene annotation in a complete genome assembly of *Malassezia sympodialis*.

Nucleic Acids Res. **2017 Mar 17**;45(5):2629-2643.

<https://www.ncbi.nlm.nih.gov/pubmed/28100699>

Teixeira BF, Kmiec B, Branca RMM, Murcha MW, Byzia A, Ivanova A, Whelan J, Drag M, Lehtiö J, Glaser E.

A multi-step peptidolytic cascade for amino acid recovery in chloroplasts.

Nat Chem Biol. **2017 Jan**;13(1):15-17

<https://www.ncbi.nlm.nih.gov/pubmed/27820795>

Warpman Berglund U, Sanjiv K, Gad H, Kalderén C, Koolmeister T, Pham T, Gokturk C, Jafari R, Maddalo G, Seashore-Ludlow B, Chernobrovkin A, Manoilov A, Pateras IS, Rasti A, Jemth AS, Almlöf I, Loseva O, Visnes T, Einarsdottir BO, Gaugaz FZ, Saleh A, Platzack B, Wallner OA, Vallin KS, Henriksson M, Wakchaure P, Borhade S, Herr P, Kallberg Y, Baranczewski P, Homan EJ, Wiita E, Nagpal V, Meijer T, Schipper N, Rudd SG, Bräutigam L, Lindqvist A, Filppula A, Lee TC, Artursson P, Nilsson JA, Gorgoulis VG, Lehtiö J, Zubarev RA, Scobie M, Helleday T.

Validation and development of MTH1 inhibitors for treatment of cancer.

Ann Oncol. **2016 Dec**;27(12):2275-2283

<https://www.ncbi.nlm.nih.gov/pubmed/27827301>

Maleki S, Kjellqvist S, Paloschi V, Magné J, Branca RM, Du L, Hultenby K, Petrini J, Fuxe J; MIBAVA Leducq Consortium., Lehtiö J, Franco-Cereceda A, Eriksson P, Björck HM.

Mesenchymal state of intimal cells may explain higher propensity to ascending aortic aneurysm in bicuspid aortic valves.

Sci Rep. **2016 Oct 25**;6:35712.

<https://www.ncbi.nlm.nih.gov/pubmed/27779199>

Perisic Matic L, Rykaczewska U, Razuvaev A, Sabater-Lleal M, Lengquist M, Miller CL, Ericsson I, Röhl S, Kronqvist M, Aldi S, Magné J, Paloschi V, Vesterlund M, Li Y, Jin H, Diez MG, Roy J, Baldassarre D, Veglia F, Humphries SE, de Faire U, Tremoli E, Odeberg J, Vukojević V, Lehtiö J, Maegdefessel L, Ehrenborg E, Paulsson-Berne G, Hansson GK, Lindeman JH, Eriksson P, Quertermous T, Hamsten A, Hedin U.

Phenotypic Modulation of Smooth Muscle Cells in Atherosclerosis Is Associated With Downregulation of LMOD1, SYNPO2, PDLIM7, PLN, and SYNM.

Arterioscler Thromb Vasc Biol. 2016 Sep;36(9):1947-61

<https://www.ncbi.nlm.nih.gov/pubmed/27470516>

Fotouhi O, Kjellin H, Larsson C, Hashemi J, Barriuso J, Juhlin CC, Lu M, Höög A, Pastríán LG, Lamarca A, Soto VH, Zedenius J, Mendiola M, Lehtiö J, Kjellman M.

Proteomics Suggests a role for APC-survivin in Response to Somatostatin Analog Treatment of Neuroendocrine Tumors.

J Clin Endocrinol Metab. 2016 Oct;101(10):3616-3627

<https://www.ncbi.nlm.nih.gov/pubmed/27459532>

Simonson OE, Mougiakakos D, Heldring N, Bassi G, Johansson HJ, Dalén M, Jitschin R, Rodin S, Corbascio M, El Andaloussi S, Wiklander OP, Nordin JZ, Skog J, Romain C, Koestler T, Hellgren-Johansson L, Schiller P, Joachimsson PO, Hägglund H, Mattsson M, Lehtiö J, Faridani OR, Sandberg R, Korsgren O, Krampera M, Weiss DJ, Grinnemo KH, Le Blanc K.

In Vivo Effects of Mesenchymal Stromal Cells in Two Patients With Severe Acute Respiratory Distress Syndrome.

Stem Cells Transl Med. 2016 Jun;5(6):845.

<https://www.ncbi.nlm.nih.gov/pubmed/27221332>

Ivanov M, Kals M, Lauschke V, Barragan I, Ewels P, Käller M, Axelsson T, Lehtiö J, Milani L, Ingelman-Sundberg M.

Single base resolution analysis of 5-hydroxymethylcytosine in 188 human genes: implications for hepatic gene expression.

Nucleic Acids Res. 2016 Aug 19;44(14):6756-69.

<https://www.ncbi.nlm.nih.gov/pubmed/27131363>

Kjellin H, Silva E, Branca RM, Eklund A, Jakobsson PJ, Grunewald J, Lehtiö J, Wheelock ÅM.

Alterations in the membrane-associated proteome fraction of alveolar macrophages in sarcoidosis.

Sarcoidosis Vasc Diffuse Lung Dis. 2016 Mar 29;33(1):17-28.

<https://www.ncbi.nlm.nih.gov/pubmed/27055832>

Willms E, Johansson HJ, Mäger I, Lee Y, Blomberg KE, Sadik M, Alaarg A, Smith CI, Lehtiö J, El Andaloussi S, Wood MJ, Vader P

Cells release subpopulations of exosomes with distinct molecular and biological properties.

Sci Rep. 2016 Mar 2;6:22519.

<https://www.ncbi.nlm.nih.gov/pubmed/26931825>

Wang N, Kjellin H, Sofiadis A, Fotouhi O, Juhlin CC, Bäckdahl M, Zedenius J, Xu D, Lehtiö J, Larsson C.

Genetic and epigenetic background and protein expression profiles in relation to telomerase activation in medullary thyroid carcinoma

Oncotarget. 2016 Apr 19;7(16):21332-46.

<https://www.ncbi.nlm.nih.gov/pubmed/26870890>

Anderson JD, Johansson HJ, Graham CS, Vesterlund M, Pham MT, Bramlett CS, Montgomery EN, Mellema MS, Bardini RL, Contreras Z, Hoon M, Bauer G, Fink KD, Fury B, Hendrix KJ, Chedin F, El-Andaloussi S, Hwang B, Mulligan MS, Lehtiö J, Nolte JA

Comprehensive Proteomic Analysis of Mesenchymal Stem Cell Exosomes Reveals Modulation of Angiogenesis via Nuclear Factor-KappaB Signaling

Stem Cells. 2016 Mar;34(3):601-13.

<https://www.ncbi.nlm.nih.gov/pubmed/26782178>

2015

Vogt C, Pernemalm M, Kohonen P, Laurent S, Hultenby K, Vahter M, Lehtiö J, Toprak MS, Fadeel B.

Proteomics Analysis Reveals Distinct Corona Composition on Magnetic Nanoparticles with Different Surface Coatings: Implications for Interactions with Primary Human Macrophages.

PLoS One. 2015 Oct 7;10(10):e0129008.

<http://www.ncbi.nlm.nih.gov/pubmed/26444829>

Roberts TC, Johansson HJ, McClorey G, Godfrey C, Blomberg KE, Coursindel T, Gait MJ, Smith CI, Lehtiö J, El Andaloussi S, Wood MJ.

Multi-level omics analysis in a murine model of dystrophin loss and therapeutic restoration.

Hum Mol Genet. 2015 Dec 1;24(23):6756-68.

<http://www.ncbi.nlm.nih.gov/pubmed/26385637>

Lee W, Alexeyenko A, Pernemalm M, Guegan J, Dessen P, Lazar V, Lehtiö J, Pawitan Y.

Identifying and Assessing Interesting Subgroups in a Heterogeneous Population.

Biomed Res Int. 2015;2015:462549.

<http://www.ncbi.nlm.nih.gov/pubmed/26339613>

Griese JJ, Kositzki R, Schrapers P, Branca RM, Nordström A, Lehtiö J, Haumann M, Högbom M.

Structural Basis for Oxygen Activation at a Heterodinuclear Manganese/Iron Cofactor.

J Biol Chem. 2015 Oct 16;290(42):25254-72.

<http://www.ncbi.nlm.nih.gov/pubmed/26324712>

Simonson OE, Mougiakakos D, Heldring N, Bassi G, Johansson HJ, Dalén M, Jitschin R, Rodin S, Corbascio M, El Andaloussi S, Wiklander OP, Nordin JZ, Skog J, Romain C, Koestler T, Hellgren-Johansson L, Schiller P, Joachimsson PO, Hägglund H, Mattsson M, Lehtiö J, Faridani OR, Sandberg R, Korsgren O, Krampera M, Weiss DJ, Grinnemo KH, Le Blanc K.

In Vivo Effects of Mesenchymal Stromal Cells in Two Patients With Severe Acute Respiratory Distress Syndrome.

Stem Cells Transl Med. 2015 Oct;4(10):1199-213

<http://www.ncbi.nlm.nih.gov/pubmed/26285659>

Zhao H, Sifakis EG, Sumida N, Millán-Ariño L, Scholz BA, Svensson JP, Chen X, Ronnegren AL, Mallet de Lima CD, Varnoosfaderani FS, Shi C, Loseva O, Yammine S, Israelsson M, Rathje LS, Németi B, Fredlund E, Helleday T, Imreh MP, Göndör A.

PARP1- and CTCF-Mediated Interactions between Active and Repressed Chromatin at the Lamina Promote Oscillating Transcription.

Mol Cell. 2015 Sep 17;59(6):984-97

<http://www.ncbi.nlm.nih.gov/pubmed/26321255>

Berglund E, Daré E, Branca RM, Akcakaya P, Fröbom R, Berggren PO, Lui WO, Larsson C, Zedenius J, Orre L, Lehtiö J, Kim J, Bränström R.

Secretome protein signature of human gastrointestinal stromal tumor cells

Exp Cell Res. 2015 Aug 1;336(1):158-70

<http://www.ncbi.nlm.nih.gov/pubmed/25983130>

Cirenajwis H, Ekedahl H, Lauss M, Harbst K, Carneiro A, Enoksson J, Rosengren F, Werner-Hartman L, Törngren T, Kvist A, Fredlund E, Bendahl PO, Jirström K, Lundgren L, Howlin J, Borg Å, Gruvberger-Saal SK, Saal LH, Nielsen K, Ringnér M, Tsao H, Olsson H, Ingvar C, Staaf J, Jönsson G

Molecular stratification of metastatic melanoma using gene expression profiling: Prediction of survival outcome and benefit from molecular targeted therapy.

Oncotarget. 2015 May 20;6(14):12297-309.

<http://www.ncbi.nlm.nih.gov/pubmed/25909218>

Li J, Lee Y, Johansson HJ, Mäger I, Vader P, Nordin JZ, Wiklander OP, Lehtiö J, Wood MJ, Andaloussi SE.

Serum-free culture alters the quantity and protein composition of neuroblastoma-derived extracellular vesicles.

J Extracell Vesicles. 2015 May 27;4:26883.

<http://www.ncbi.nlm.nih.gov/pubmed/26022510>

Dinets A, Pernemalm M, Kjellin H, Sviatoha V, Sofiadis A, Juhlin CC, Zedenius J, Larsson C, Lehtiö J, Höög A.

Differential protein expression profiles of cyst fluid from papillary thyroid carcinoma and benign thyroid lesions.

PLoS One. 2015 May 15;10(5):e0126472.

<http://www.ncbi.nlm.nih.gov/pubmed/25978681>

Johansson HJ, Sanchez BC, Forshed J, Stål O, Fohlin H, Lewensohn R, Hall P, Bergh J, Lehtiö J, Linderholm BK.

Proteomics profiling identify CAPS as a potential predictive marker of tamoxifen resistance in estrogen receptor positive breast cancer.

Clin Proteomics. 2015 Mar 21;12(1):8.

<http://www.ncbi.nlm.nih.gov/pubmed/25878567>

Goel S, Palmkvist M, Moll K, Joannin N, Lara P, R Akhouri R, Moradi N, Öjemalm K, Westman M, Angeletti D, Kjellin H, Lehtiö J, Blixt O, Idestrom L, Gahmberg CG, Storry JR, Hult AK, Olsson ML, von Heijne G, Nilsson I, Wahlgren M.

RIFINs are adhesins implicated in severe Plasmodium falciparum malaria

Nat Med. 2015 Apr;21(4):314-7.

<http://www.ncbi.nlm.nih.gov/pubmed/25751816>

Stäubert C, Bhuiyan H, Lindahl A, Broom OJ, Zhu Y, Islam S, Linnarsson S, Lehtiö J, Nordström A.

Rewired metabolism in drug-resistant leukemia cells: a metabolic switch hallmarked by reduced dependence on exogenous glutamine

J Biol Chem. 2015 Mar 27;290(13):8348-59.

<http://www.ncbi.nlm.nih.gov/pubmed/25697355>

Nordin JZ, Lee Y, Vader P, Mäger I, Johansson HJ, Heusermann W, Wiklander OP, Hällbrink M, Seow Y, Bultema JJ, Gilthorpe J, Davies T, Fairchild PJ, Gabrielsson S, Meisner-Kober NC, Lehtiö J, Smith CI, Wood MJ, Andaloussi SE.

Ultrafiltration with size-exclusion liquid chromatography for high yield isolation of extracellular vesicles preserving intact biophysical and functional properties.

Nanomedicine. 2015 May;11(4):879-83.

<http://www.ncbi.nlm.nih.gov/pubmed/25659648>

Mutvei AP, Fredlund E, Lendahl U.

Frequency and distribution of Notch mutations in tumor cell lines.

BMC Cancer. 2015 Apr 25;15:311.

<http://www.ncbi.nlm.nih.gov/pubmed/25907971>

Boekel J, Chilton JM, Cooke IR, Horvatovich PL, Jagtap PD, Käll L, Lehtiö J, Lukasse P, Moerland PD, Griffin TJ.

Multi-omics data analysis using Galaxy

Nat Biotechnol. 2015 Feb;33(2):137-9.

<http://www.ncbi.nlm.nih.gov/pubmed/25658277>

Westcott PM, Halliwill KD, To MD, Rashid M, Rust AG, Keane TM, Delrosario R, Jen KY, Gurley KE, Kemp CJ, Fredlund E, Quigley DA, Adams DJ, Balmain A

The mutational landscapes of genetic and chemical models of Kras-driven lung cancer

Nature. 2015 Jan 22;517(7535):489-92

<http://www.ncbi.nlm.nih.gov/pubmed/25363767>

2014**Boström T, Johansson HJ, Lehtiö J, Uhlén M, Hober S.**

Investigating the applicability of antibodies generated within the human protein atlas as capture agents in immunoenrichment coupled to mass spectrometry.

J Proteome Res. 2014 Oct 3;13(10):4424-35.

<http://www.ncbi.nlm.nih.gov/pubmed/25231543>

Edfors F, Boström T, Forsström B, Zeiler M, Johansson H, Lundberg E, Hober S, Lehtiö J, Mann M, Uhlen M.

Immunoproteomics using polyclonal antibodies and stable isotope-labeled affinity-purified recombinant proteins.

Mol Cell Proteomics. 2014 Jun;13(6):1611-24.

<http://www.ncbi.nlm.nih.gov/pubmed/24722731>

Azimi A, Pernemalm M, Frostvik Stolt M, Hansson J, Lehtiö J, Egyházi Brage S, Hertzman Johansson C.

Proteomics analysis of melanoma metastases: association between S100A13 expression and chemotherapy resistance.

Br J Cancer. 2014 May 13;110(10):2489-95.

<http://www.ncbi.nlm.nih.gov/pubmed/24722184>

Yafeng Zhu, Lina Hultin-Rosenberg, Jenny Forshed, Rui M. M. Branca, Lukas M. Orre and Janne Lehtiö

SpliceVista, a tool for splice variant identification and visualization in shotgun proteomics data.

Mol Cell Proteomics. 2014 Jun;13(6):1552-62.

<http://www.ncbi.nlm.nih.gov/pubmed/24692640>

Pernemalm M & Lehtiö J.

Mass spectrometry-based plasma proteomics: state of the art and future outlook.

Expert Rev Proteomics. 2014 Mar 24.

<http://www.ncbi.nlm.nih.gov/pubmed/24661227>

Mundt F, Johansson H, Forshed J, Arslan S, Metintas M, Dobra K, Lehtiö J, Hjerpe A.

Proteome screening of pleural effusions identifies galectin 1 as a diagnostic biomarker and highlights several prognostic biomarkers for malignant mesothelioma.

Mol Cell Proteomics. 2014 Mar;13(3):701-15

<http://www.ncbi.nlm.nih.gov/pubmed/24361865>

Kjellin H, Johansson H, Höög A, Lehtiö J, Jakobsson PJ, Kjellman M. Differentially expressed proteins in malignant and benign adrenocortical tumors.

PLoS One. 2014 Feb 3;9(2):e87951.

<http://www.ncbi.nlm.nih.gov/pubmed/24498411>

Branca R.M., Orre L-M., Johansson H.J., Granholm V., Huss M., Pérez-Bercoff Á., Forshed J., Käll L., Lehtiö J.

HiRIEF LC-MS enables deep proteome coverage and unbiased proteogenomics.

Nature Methods, 2014 Jan;11(1):59-62.

<http://www.ncbi.nlm.nih.gov/pubmed/24240322>

Sandberg A, Branca RM, Lehtiö J, Forshed J.

Quantitative accuracy in mass spectrometry based proteomics of complex samples: the impact of labeling and precursor interference.

J Proteomics. 2014 Jan 16;96:133-44

<http://www.ncbi.nlm.nih.gov/pubmed/24211767>

2013**Lazar V, Suo C, Orear C, van den Oord J, Balogh Z, Guegan J, Job B, Meurice G, Ripoche H, Calza S, Hasmats J, Lundeberg J, Lacroix L, Vielh P, Dufour F, Lehtiö J, Napieralski R, Eggermont A, Schmitt M, Cadranel J, Besse B, Girard P, Blackhall F, Validire P, Soria JC, Dessen P, Hansson J, Pawitan Y.**

Integrated molecular portrait of non-small cell lung cancers.

BMC Med Genomics. 2013 Dec 3;6:53

<http://www.ncbi.nlm.nih.gov/pubmed/24299561>

Neiman M, Fredolini C, Johansson H, Lehtiö J, Nygren PA, Uhlén M, Nilsson P, Schwenk JM.

Selectivity analysis of single binder assays used in plasma protein profiling.

Proteomics. 2013 Oct 21.

<http://www.ncbi.nlm.nih.gov/pubmed/24151238>

Griese J.J., Roos K., Cox N., Shafaat H.S., Branca R.M.M., Lehtiö J., Gräslund A., Lubitz W., Siegbahn P.E.M., Högbom M.,

Structure-encoded Metal Specificity and Crosslinking in a Heterodinuclear Metalloprotein.

Proc Natl Acad Sci U S A. 2013 Oct 22;110(43):17189-94

<http://www.ncbi.nlm.nih.gov/pubmed/24101498>

Kmiec B, Teixeira P.F., Murcha M.W., Branca R.M.M.; Radomiljac J.D., Regberg J., Svensson L.M., Bakali A., Langel U., Lehtiö J., Whelan J., Stenmark P., Glaser E.,

A novel Organellar OligoPeptidase provides a complementary pathway for targeting peptide degradation in mitochondria and chloroplasts.

Proc Natl Acad Sci U S A. 2013 Oct 1;110(40):E3761-9.

<http://www.ncbi.nlm.nih.gov/pubmed/24043784>

Ivanov M, Kals M, Kacevska M, Barragan I, Kasuga K, Rane A, Metspalu A, Milani L, Ingelman-Sundberg M.

Ontogeny, distribution and potential roles of 5-hydroxymethylcytosine in human liver function.

Genome Biol. 2013 Aug 19; 14(8):R83

<http://www.ncbi.nlm.nih.gov/pubmed/23958281>

Silva E, Souchelnytskyi S, Kasuga K, Eklund A, Grunewald J, Wheelock AM

Quantitative intact proteomics investigations of alveolar macrophages in sarcoidosis.

Eur. Respir. J. 2013 Jun; 41(6):1331-1339

<http://www.ncbi.nlm.nih.gov/pubmed/23060632>

Pernemalm M, De Petris L, Branca RM, Forshed J, Kanter L, Soria JC, Girard P, Validire P, Pawitan Y, van den Oord J, Lazar V, Pählman S, Lewensohn R, Lehtiö J.

Quantitative proteomics profiling of primary lung adenocarcinoma tumours reveals functional perturbations in tumour metabolism.

J Proteome Res. 2013 Aug 13

<http://www.ncbi.nlm.nih.gov/pubmed/23902561>

Johansson H.J, Sanchez B.C., Mundt F., Forshed J., Lundgren B., Martens U., Kovacs A., Máthé G., Yakhini Z., Helou K., Einbeigi Z., Krawiec K., Kanter L., Hjerpe A., Stål O., Linderholm B.K., Lehtiö J.

Retinoic acid receptor alpha has potential predictive value in tamoxifen treated breast cancer patients.

Nature Commun. 2013. Jul 19;4:2175.

<http://www.ncbi.nlm.nih.gov/pubmed/23868472>

Forshed J.

Protein Quantification by Peptide Quality Control (PQPQ) of Shotgun Proteomics Data.

Methods Mol Biol. 2013;1023:149-58

<http://www.ncbi.nlm.nih.gov/pubmed/23765624>

Lengqvist J, Sandberg A

Stable isotope labeling methods in protein profiling

Methods Mol Biol. 2013;1023:21-51

<http://www.ncbi.nlm.nih.gov/pubmed/23765618>

Pernemalm M.

Narrow-range Peptide isoelectric focusing as Peptide prefractionation method prior to tandem mass spectrometry analysis.

Methods Mol Biol. 2013;1023:3-11

<http://www.ncbi.nlm.nih.gov/pubmed/23765616>

Zirath H., Frenzel A., Oliynyk G., Segerström L., Westermark U.K., Larsson K., Munksgaard Persson M., Hultenby K., Lehtiö J., Einvik C., Pålman S., Kogner P., Jakobsson P.J., Arsenian Henriksson M.,

MYC-Inhibition Induces Metabolic Changes Leading to Accumulation of Lipid Droplets in Tumor Cells.

Proc Natl Acad Sci U S A. 2013 Jun 18;110(25):10258-63

<http://www.ncbi.nlm.nih.gov/pubmed/23733953>

Orre L.M., Panizza E., Kaminsky V., Vernet E., Gräslund T.B., Zhivotovsky B., Lehtiö J.

S100A4 interacts with p53 in the nucleus and promotes p53 degradation.

Oncogene. 2013 Jun 10

<http://www.ncbi.nlm.nih.gov/pubmed/23752197>

Tang Z, Bereczki E, Zhang H, Wang S, Li C, Ji X, Branca RM, Lehtiö J, Guan Z, Filipcik P, Xu S, Winblad B, Pei JJ.

mTor mediates tau dyshomeostasis: implication for Alzheimer disease.

J Biol Chem. 2013 May 31;288(22):15556-70

<http://www.ncbi.nlm.nih.gov/pubmed/23585566>

Hultin-Rosenberg L, Forshed J, Branca RM, Lehtio J, Johansson HJ.

Defining, comparing and improving iTRAQ quantification in mass spectrometry proteomics data.

Mol Cell Proteomics. 2013 Jul;12(7):2021-31

<http://www.ncbi.nlm.nih.gov/pubmed/23471484>

Gioti A, Nystedt B, Li W, Xu J, Andersson A, Averette AF, Münch K, Wang X, Kappauf C, Kingsbury JM, Kraak B, Walker LA, Johansson HJ, Holm T, Lehtiö J, Stajich JE, Mieczkowski P, Kahmann R, Kennell JC, Cardenas ME, Lundeberg J, Saunders CW, Boekhout T, Dawson TL, Munro CA, de Groot PW, Butler G, Heitman J, Scheynius A.

Genomic Insights into the Atopic Eczema-Associated Skin Commensal Yeast *Malassezia sympodialis*.

MBio. 2013 Jan 22;4(1).

<http://www.ncbi.nlm.nih.gov/pubmed/23341551>

Pernemalm M, Lehtiö J.

A Novel Prefractionation Method Combining Protein and Peptide Isoelectric Focusing in Immobilized pH Gradient Strips.

J Proteome Res. 2013 Feb 1;12(2):1014-9.

<http://www.ncbi.nlm.nih.gov/pubmed/23214937>

Kjellqvist S, Maleki S, Olsson T, Chwastyniak M, Mamede Branca RM, Lehtiö J, Pinet F, Franco-Cereceda A, Eriksson P.

A combined proteomic and transcriptomic approach shows diverging molecular mechanisms in thoracic aortic aneurysm development in patients with tricuspid- and bicuspid aortic valve.

Mol Cell Proteomics. 2013 Feb;12(2):407-25.

<http://www.ncbi.nlm.nih.gov/pubmed/23184916>

2012**Filipe Teixeira P, Moreira Pinho C, Branca RM, Lehtiö J, Levine RL, Glaser E.**

In vitro oxidative inactivation of human prosequence protease (hPreP).

Free Radic Biol Med. 2012 Oct 3;53(11):2188-2195.

<http://www.ncbi.nlm.nih.gov/pubmed/23041349>

Alexeyenko A, Lee W, Pernemalm M, Guegan J, Dessen P, Lazar V, Lehtiö J, Pawitan Y.

Network enrichment analysis: extension of gene-set enrichment analysis to gene networks.

BMC Bioinformatics. 2012 Sep 11;13(1):226.

<http://www.ncbi.nlm.nih.gov/pubmed/22966941>

Amano M, Eriksson H, Manning JC, Detjen KM, André S, Nishimura SI, Lehtiö J, Gabius HJ.

Tumor suppressor p16(INK) (4a) : anoikis-favoring decrease in N/O-glycan/cell surface sialylation by downregulation of enzymes in sialic acid biosynthesis in tandem in a pancreatic carcinoma model.

FEBS J. 2012 Nov;279(21):4062-80.

<http://www.ncbi.nlm.nih.gov/pubmed/22943525>

Arabi, A.; Ullah, K.; Branca, R. M.; Johansson, J.; Bandarra, D.; Haneklaus, M.; Fu, J.; Ariès, I.; Nilsson, P.; Den Boer, M. L.; Pokrovskaja, K.; Grander, D.; Xiao, G.; Rocha, S.; Lehtiö, J.; Sangfelt, O.,

A proteomic screen for SCFFbw7 ubiquitin-ligase substrates reveals Fbw7 as a modulator of the NF-κB pathway

Nature Commun **2012**, Jul 31;3:976.

<http://www.ncbi.nlm.nih.gov/pubmed/22864569>

Sandberg A, Lindell G, Nordstrom-Källström B, Branca RM, Gemzell Danielsson K, Dahlberg M, Larson B, Forshed J, Lehtiö J.

Tumor proteomics by multivariate analysis on individual pathway data for characterization of vulvar cancer phenotypes.

Mol Cell Proteomics. **2012** Jul;11(7):M112.016998.

<http://www.ncbi.nlm.nih.gov/pubmed/22499770>

Sofiadis A, Becker S, Hellman U, Hultin-Rosenberg L, Dinets A, Hulchiy M, Zedenius J, Wallin G, Foukakis T, Höög A, Auer G, Lehtiö J, Larsson C.

Proteomic profiling of follicular and papillary thyroid tumors.

Eur J Endocrinol. **2012** Apr;166(4):657-67.

<http://www.ncbi.nlm.nih.gov/pubmed/22275472>

Rosengren V, Johansson H, Lehtiö J, Fransson L, Sjöholm A, Ortsäter H.

Thapsigargin down-regulates protein levels of GRP78/BiP in INS-1E cells.

J Cell Biochem. 2012 May;113(5):1635-44.

<http://www.ncbi.nlm.nih.gov/pubmed/22189689>

2011

Forshed J, Johansson HJ, Pernemalm M, Branca RM, Sandberg A, Lehtiö J.

Enhanced information output from shotgun proteomics data by protein quantification and peptide quality control (PQPQ).

Mol Cell Proteomics. 2011 Oct;10(10):M111.010264.

<http://www.ncbi.nlm.nih.gov/pubmed/21734112>

Skoog K, Bruzell FS, Ducroux A, Hellberg M, Johansson H, Lehtiö J, Högbom M, Daley DO.

Penicillin-binding protein 5 can form a homo-oligomeric complex in the inner membrane of *Escherichia coli*.

Protein Sci. 2011 Sep;20(9):1520-9.

<http://www.ncbi.nlm.nih.gov/pubmed/21674665>

Selao TT, Branca R, Chae PS, Lehtiö J, Gellman SH, Rasmussen SG, Nordlund S, Noren A.

Identification of chromatophore membrane protein complexes formed under different nitrogen availability conditions in *Rhodospirillum rubrum*.

J Proteome Res. 2011 Jun 3;10(6):2703-14

<http://www.ncbi.nlm.nih.gov/pubmed/21443180>

Ståhl S, Mm Branca R, Efazat G, Ruzzene M, Zhivotovsky B, Lewensohn R, Viktorsson K, Lehtiö J.

Phosphoproteomic profiling of NSCLC cells reveals that ephrin B3 regulates pro-survival signaling through Akt1-mediated phosphorylation of the EphA2 receptor.

J Proteome Res. 2011 May 6;10(5):2566-78.

<http://www.ncbi.nlm.nih.gov/pubmed/21413766>

Andaloussi SE1, Lehto T, Mäger I, Rosenthal-Aizman K, Oprea II, Simonson OE, Sork H, Ezzat K, Copolovici DM, Kurrikoff K, Viola JR, Zaghoul EM, Sillard R, Johansson HJ, Said Hassane F, Guterstam P, Suhorutšenko J, Moreno PM, Oskolkov N, Hälldin J, Tedebark U, Metspalu A, Lebleu B, Lehtiö J, Smith CI, Langel U.

Design of a peptide-based vector, PepFect6, for efficient delivery of siRNA in cell culture and systemically in vivo.

Nucleic Acids Research, 2011 May;39(9):3972-87.

<http://www.ncbi.nlm.nih.gov/pubmed/21245043>

Maddalo G., Stenberg B., Filippa, Götzke H., Toddo S., Björkholm P., Eriksson H., Chovanec P., Genevaux P., Lehtiö J., Ilag L., Daley D.

A systematic analysis of native membrane protein complexes in *Escherichia coli*.

J Prot Res. 2011 Apr 1;10(4):1848-59.

<http://www.ncbi.nlm.nih.gov/pubmed/21210718>

Lengqvist J, Eriksson H, Gry M, Uhlén K, Björklund C, Bjellqvist B, Jakobsson PJ, Lehtiö J.

Observed peptide pI and retention time shifts as a result of post-translational modifications in multidimensional separations using narrow-range IPG-IEF.

Amino Acids. 2011 Feb;40(2):697-711.

<http://www.ncbi.nlm.nih.gov/pubmed/20725754>

De Petris L, Brandén E, Herrmann R, Sanchez BC, Koyi H, Linderholm B, Lewensohn R, Linder S, Lehtiö J.

Diagnostic and prognostic role of plasma levels of two forms of cytokeratin 18 in patients with non-small-cell lung cancer.

Eur J Cancer. 2011 Jan;47(1):131-7.

<http://www.ncbi.nlm.nih.gov/pubmed/20822898>

Linderholm BK, Hellborg H, Johansson U, Skoog L, Lehtiö J.

Vascular endothelial growth factor receptor 2 and downstream p38 mitogen-activated protein kinase are possible candidate markers of intrinsic resistance to adjuvant endocrine treatment in steroid receptor positive breast cancer.

Breast Cancer Res Treat. 2011 Jan;125(2):457-6

<http://www.ncbi.nlm.nih.gov/pubmed/21110084>

2010

Sofiadis A, Dinets A, Orre LM, Branca RM, Juhlin CC, Foukakis T, Wallin G, Höög A, Hulchiy M, Zedenius J, Larsson C, Lehtiö J.

Proteomic study of thyroid tumors reveals frequent up-regulation of the Ca²⁺-binding protein S100A6 in papillary thyroid carcinoma.

Thyroid. 2010 Oct;20(10):1067-76.

<http://www.ncbi.nlm.nih.gov/pubmed/20629554>

Rosenberg LH, Franzén B, Auer G, Lehtiö J, Forshed J.

Multivariate meta-analysis of proteomics data from human prostate and colon tumours.

BMC Bioinformatics. 2010 Sep 17;11:468

<http://www.ncbi.nlm.nih.gov/pubmed/20849579>

Lehtiö J, De Petris L.

Lung cancer proteomics, clinical and technological considerations.

Journal of Proteomics, 2010 Sep 10;73(10):1851-63.

<http://www.ncbi.nlm.nih.gov/pubmed/20685322>

De Petris L, Pernemalm M, Elmberger G, Bergman P, Orre L, Lewensohn R, Lehtiö J.

A novel method for sample preparation of fresh lung cancer tissue for proteomics analysis by tumor cell enrichment and removal of blood contaminants.

Proteome Sci. 2010 Feb 26;8(1):9.

<http://www.ncbi.nlm.nih.gov/pubmed/20187940>

2009

Stranneheim H, Orre LM, Lehtiö J, Flygare J.

A comparison between protein profiles of B cell subpopulations and mantle cell lymphoma cells.

Proteome Sci. 2009 Nov 23;7:43

<http://www.ncbi.nlm.nih.gov/pubmed/19930641>

Tan C.S., Salim A., Ploner A., Lehtiö J., Chia K.S., Pawitan Y.

Correlating gene and protein expression data using maximum covariance analysis.

BMC Bioinformatics. 2009 Sep 1;10(1):272.

<http://www.ncbi.nlm.nih.gov/pubmed/19723309>

Jitkaew S, Trebinska A, Grzybowska E, Carlsson G, Nordstrom A, Lehtiö J, Frojmark AS, Dahl N, Fadeel B.

N{alpha}-tosyl-L-phenylalanine chloromethyl ketone (TPCK) induces caspase-dependent apoptosis in transformed human B cell lines with transcriptional downregulation of anti-apoptotic HS1-associated protein X-1 (HAX-1).

J Biol Chem. 2009 Oct 9;284(41):27827-37.

<http://www.ncbi.nlm.nih.gov/pubmed/19679660>

Pernemalm M., de Petris L., Branden E., Eriksson H., Koyi H., Lewensohn R., Lehtiö J.

Use of narrow range peptide isoelectric focusing to improve detection of lung adenocarcinoma markers in plasma and pleural effusion.

Proteomics. 2009, Jul;9(13):3414-24.

<http://www.ncbi.nlm.nih.gov/pubmed/19609957>

Linderholm BK., Hellborg H., Johansson U., Bergqvist J., von Schoultz E., Fernstad R., Skoog L., Bergh J., Lehtiö J. and Lewensohn R.

Significantly higher levels of vascular endothelial growth factor (VEGF) and shorter survival times for patients with primary operable triple negative breast cancer.

Ann. of Oncol.,2009 Oct;20(10):1639-46.

<http://www.ncbi.nlm.nih.gov/pubmed/19549711>

Lengqvist J., Andrade J, Yang Y, Alvelius G, Lewensohn R, Lehtiö J.

Robust and accuracy of high speed LC-MS separations for global peptide quantitation and biomarker discovery.

J Chromatogr B Analyt Technol Biomed Life Sci. 2009 May 1;877(13):1306-16..

<http://www.ncbi.nlm.nih.gov/pubmed/19345649>

Ståhl SV, Fung E, Adams C, Lengqvist J, Mörk B, Stenerlöv B, Lewensohn R, Lehtiö J, Zubarev R, Viktorsson K.

Proteomics and pathway analysis identifies JNK-signaling as critical for High-LET radiation-induced apoptosis in non-small lung cancer cells.

Mol Cell Proteomics. 2009 May;8(5):1117-29.

<http://www.ncbi.nlm.nih.gov/pubmed/19168796>

De Petris L., Orre LM., Kanter L., Pernemalm M., Koyi H., Lewensohn R., Lehtiö J.

Tumor expression of S100A6 correlates with survival of patients with stage I non-small cell lung cancer.

Lung Cancer. 2009 Mar;63(3):410-7.

<http://www.ncbi.nlm.nih.gov/pubmed/18620780>

Pernemalm M., Lewensohn R., Lehtiö J.

Affinity pre-fractionation for MS-based plasma proteomics.

Proteomics. 2009 Mar;9(6):1420-7

<http://www.ncbi.nlm.nih.gov/pubmed/19235168>

2008**Pernemalm M., Orre L., Lengqvist J., Wikström P., Lewensohn R., Lehtiö J.**

Evaluation of three principally different intact protein pre-fractionation methods for plasma biomarker discovery.

J Proteome Res. 2008 Jul;7(7):2712-22.

<http://www.ncbi.nlm.nih.gov/pubmed/18549256>

Eriksson H., Lengqvist J., Hedlund J., Uhlén K., Orre LM., Bjellqvist B., Persson B., Lehtiö J., Jakobsson PJ.

Quantitative membrane proteomics applying narrow range peptide isoelectric focusing for studies of lung cancer resistance mechanisms.

Proteomics. 2008 Aug;8(15):3008-18.

<http://www.ncbi.nlm.nih.gov/pubmed/18654985>

Forshed J., Pernemalm M., Tan SC., Lindberg M, Kanter L., Pawitan Y, Lewensohn R, Stenke L., Lehtiö J.

Proteomic data analysis workflow for discovery of candidate biomarker peaks predictive of clinical outcome for patients with acute myeloid leukemia.

J Proteome Res. 2008 Jun;7(6):2332-41.

<http://www.ncbi.nlm.nih.gov/pubmed/18452325>

Nordström A, Want E, Northen T, Lehtiö J, Siuzdak G.

Multiple ionization mass spectrometry strategy used to reveal the complexity of metabolomics.

Anal Chem. 2008 Jan 15;80(2):421-9.

<http://www.ncbi.nlm.nih.gov/pubmed/18085752>

2007**Orre LM., Pernemalm M., Lewensohn R., Lengqvist J., Lehtiö J.**

Upregulation, modification and translocation of S100A6 induced by exposure to ionizing radiation, revealed by proteomic profiling.

Mol Cell Proteomics. 2007 Dec;6(12):2122-31.

<http://www.ncbi.nlm.nih.gov/pubmed/17785350>

Hellström M, Jonmarker S, Lehtiö J, Auer G, Egevad L.

Proteomics in clinical prostate research.

Proteomics Clin Appl. 2007 Sep;1(9):1058-65.

<http://www.ncbi.nlm.nih.gov/pubmed/21136757>

Lengqvist J., Uhlén K., and Lehtiö J.

iTRAQ compatibility of peptide immobilized pH gradient isoelectric focusing (IPG-IEF).

Proteomics. 2007. Jun;7(11):1746-52.

<http://www.ncbi.nlm.nih.gov/pubmed/17476709>

2006**Forsberg L, Larsson C, Sofiadis A, Lewensohn R, Höög A, Lehtiö J.**

Pre-fractionation of archival frozen tumours for proteomics applications.

J Biotechnol. 2006 Dec 1;126(4):582-6.

<http://www.ncbi.nlm.nih.gov/pubmed/16956687>

Tan CS, Ploner A, Quandt A, Lehtiö J, Pernemalm M, Lewensohn R, Pawitan Y.

Annotated regions of significance of SELDI-TOF-MS spectra for detecting protein biomarkers.

Proteomics. 2006 Dec;6(23):6124-33.

<http://www.ncbi.nlm.nih.gov/pubmed/17072907>

Tan CS, Ploner A, Quandt A, Lehtiö J, Pawitan Y.

Finding regions of significance in SELDI measurements for identifying protein biomarkers.

Bioinformatics. 2006 Jun 15;22(12):1515-23.

<http://www.ncbi.nlm.nih.gov/pubmed/16567365>

Orre LM, Stenerlöw B, Dhar S, Larsson R, Lewensohn R, Lehtiö J.

p53 is involved in clearance of ionizing radiation-induced RAD51 foci in a human colon cancer cell line.

Biochem Biophys Res Commun. 2006 Apr 21;342(4):1211-7.

<http://www.ncbi.nlm.nih.gov/pubmed/16516153>

2003**Lehtiö J, Sugiyama J, Gustavsson M, Fransson L, Linder M, Teeri TT.**

The binding specificity and affinity determinants of family 1 and family 3 cellulose binding modules.

Proc Natl Acad Sci U S A. 2003 Jan 21;100(2):484-9.

<http://www.ncbi.nlm.nih.gov/pubmed/12522267>