iTRAQ® Reagents: Celebrating over 150 Peer-Reviewed Publications

Enabling Protein Expression Analysis and Biomarker Discovery Research

The iTRAQ reagents were first launched at ASMS 2004 and quickly became adopted as a powerful mainstream proteomics technique. The ease-of–use of this reagent based strategy has meant that accurate quantitative proteomics is now within the reach of all biological scientists. This technical note is not meant to be an exhaustive list of all of the publications involving the iTRAQ reagents, but rather an overview of papers where the iTRAQ reagents have been used to make breakthrough discoveries and advance biological research.

1. Biomarker Discovery

1.1. Detection of biomarkers with a multiplex quantitative proteomic platform in cerebrospinal fluid of patients with neurodegenerative disorders

Author: Abdi, F.; Quinn, J.F.; Jankovic, J.; McIntosh, M.; Leverenz, J.B.; Peskind, E.; Nixon, R.; Nutt, J.; Chung, K.; Zabetian, C.; Samii, A.; Lin, M.; Hattan, S.; Pan, C.; Wang, Y.; Jin, J.; Zhu, D.; Li, G.J.; Liu, Y.; Waichunas, D.; Montine, T.M.; Zhang, J.
Year: 2006
Journal: J. of Alzheimer's Disease
Volume: 9
Issue: 3
Pages: 293-348
URL: http://www.j-alz.com/issues/9/vol9-3.html

1.2. Search for cancer markers from endometrial tissues using differentially labeled tags iTRAQ and cICAT with multidimensional liquid chromatography and tandem mass spectrometry.

Author: DeSouza, L.; Diehl, G.; Rodrigues, M.J.; Guo, J.; Romaschin, A.D.; Colgan, T.J.; Siu, K.W.
Year: 2005
Journal: J. Proteome Res.
Volume: 4
Issue: 2
Pages: 377-386
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2005/4/i02/abs/pr049821j.html

1.3. Differential Protein Expression Profiling by iTRAQ-2DLC-MS/MS of Lung Cancer Cells Undergoing Epithelial-Mesenchymal Transition Reveals a Migratory/Invasive Phenotype

Author: Keshamouni, V. G.; Michailidis, G.; Grasso, C. S.; Anthwal, S.; Strahler, J. R.; Walker, A.; Arenberg, D. A.; Reddy R.C.; Akulapalli, S.; Thannickal, V. J.; Standiford,T. J.; Andrews, P. C.; Omenn, G. S.
Year: 2006
Journal: J. Proteome Res.
Volume: 5
Issue: 5
Pages: 1143-1154
Date: May 5, 2006
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2006/5/i05/abs/pr050455t.html

1.4. Degradomics: Systems biology of the protease web. Pleiotropic roles of MMPs in cancer

Author: Overall C.; Dean R.
Year: 2006
Journal: Cancer and Metastasis Reviews
Volume: 25
Issue: 1
Pages: 69
URL: http://www.springerlink.com/content/a0412k2077118m81

1.5. Comprehensive Characterization of Human Tear Proteome Using Nano-Liquid Chromatography-QTOF Tandem Mass Spectrometry and Quantitative Proteomics (iTRAQ)

Author: Beuerman, R. W.; Zhou L., Prema, P.; Chan, C. M.; Ang, L. P. K.; Angayarkanni, N.; Foo, Y. H.; Liu, S. P.; Tan D. T. H.
Year: 2006
Journal: Invest. Ophthalmol. Vis. Sci.
Volume: 47
Issue: 5
Pages: 1940
Date: May 1, 2006
URL: http://abstracts.iovs.org/cgi/content/abstract/47/5/1940

1.6. Proteomic Analysis of Gray Platelet Syndrome by iTRAQ Labelling and Mass Spectroscopy: A Potential New Diagnostic Strategy for Platelet Disorders

Author: Perez-Pujol, S.; Anderson, L.B.; Martinez, M.B.; Higgins, L.; White, J.G.; Nelsestuen, G.L.; Key N.S.;
Year: 2005
Journal: Blood (ASH Annual Meeting Abstracts)
Volume: 106
Issue: 11
Pages: 2161
Date: November 16, 2005
URL: http://meeting.bloodjournal.org/cgi/content/abstract/106/11/2161

1.7. Epithelial to Mesenchymal Transition Is a Determinant of Sensitivity of Non-Small-Cell Lung Carcinoma Cell Lines and Xenografts to Epidermal Growth Factor Receptor Inhibition

Author: Thomson, S.; Buck, E.; Petti, F.; Griffin, G.; Brown, E.; Ramnarine, N.; Iwata, K.K.; Gibson, N.; Haley, J.D.
Year: 2005
Journal: Cancer Res.
Volume: 65
Issue: 20
Pages: 9455-9462
Date: October 15, 2005
URL: http://cancerres.aacrjournals.org/cgi/content/abstract/65/20/9455

1.8. Heparin cofactor II-thrombin complex in MPS I: A biomarker of MPS disease

Author: Randall, D.R.; Sinclair, G.B.; Colobong, K.E.; Hetty, E.; Clarke, L.A.
Year: 2006
Journal: Mol. Genetics and Metabolism
Volume: 88
Issue: 3
Pages: 235
URL: http://www.sciencedirect.com/science/article/B6WNG-4JB9W4F-2/2/f27295cdda8413001867bb39af69d8c8

1.9. Assessing the Effects of Diurnal Variation on the Composition of Human Parotid Saliva: Quantitative Analysis of Native Peptides Using iTRAQ Reagents

Author: Hardt, M.; Witkowska, H. E.; Webb, S.; Thomas, L. R.; Dixon, S. E.; Hall, S. C.; Fisher, S. J.
Year: 2005
Journal: Anal. Chem.
Volume: 77
Issue: 15
Pages: 4947-4954
Date: August 1, 2005
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/ancham/2005/77/i15/abs/ac050161r.html

1.10. The Effects of Vegf on the Tight Junction Proteome of Arpe-19 Cells

Author: Ablonczy, Z.
Year: 2006
Journal: Invest. Ophthalmol. Vis. Sci.
Volume: 47
Issue: 5
Pages: 2891
Date: May 1, 2006
URL: http://abstracts.iovs.org/cgi/content/abstract/47/5/2891

1.11. Comparative Time-Dependent Analysis of Potential Inflammation Biomarkers in Lymphoma-Bearing SJL Mice.

Author: Kristiansson, M.H.; Bhat, V.B.; Babu, I.R.; Wishnok, J.S.; Tannenbaum, S.R.
Year: 2007
Journal: J. Proteome Res
Volume: 6
Issue: 5
Pages: 1735-1744
Date: May, 2007
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2007/6/i05/abs/pr060497x.html

1.12. Endometrial carcinoma biomarker discovery and verification using differentially tagged clinical samples with multidimensional liquid chromatography and tandem mass spectrometry.

Author: Desouza, L.V.; Grigull, J.; Ghanny, S.; Dube, V.; Romaschin, A.D.; Colgan, T.J.; Siu, K.W.
Year: 2007
Journal: Mol. Cell. Proteomics
Volume: 6
Issue: 7
Pages: 1170-1182
Date: July, 2007
URL: http://www.mcponline.org/cgi/reprint/M600378-MCP200v1

1.13. iTRAQ-Coupled 2D LC-MS/MS Analysis on Protein Profile in Vascular Smooth Muscle Cells Incubated with S- and R-Enantiomers of Propranolol: Possible Role of Metabolic Enzymes Involved in Cellular Anabolism and Antioxidant Activity.

Author: Sui, J.; Tan, T.L.; Zhang, J.; Wang, X.; Ching, C.B.; Chen, W.N.
Year: 2007
Journal: Mol. Cell. Proteomics
Volume: 6
Issue: 5
Pages: 1643-1651
Date: May, 2007
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr0605926

1.14. Comprehensive survey of p94/calpain 3 substrates by comparative proteomics - Possible regulation of protein synthesis by p94.

Author: Ono, Y.; Hayashi, C.; Doi, N.; Kitamura, F.; Shindo, M.; Kudo, K,; Tsubata, T.; Yanagida, M.; Sorimachi, H.
Year: 2007
Journal: Biotechnol J.
Volume: 2
Issue: 5
Pages: 565-576
Date: Mar 20, 2007
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/114190199/ABSTRACT

1.15. Indole-3-carbinol inhibits 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone plus benzo(a)pyrene-induced lung tumorigenesis in A/J mice and modulates carcinogen-induced alterations in protein levels

Author: Kassie, F.; Anderson, L.B.; Scherber, R.; Yu, N.; Lahti, D.; Upadhyaya, P.; Hecht, S.S.
Year: 2007
Journal: Cancer Res.
Volume: 67
Issue: 13
Pages: 6502-6511
Date: Jul 1, 2007
URL:http://cancerres.aacrjournals.org/cgi/content/full/67/13/6502

1.16. Prevalidation of potential protein biomarkers in toxicology using iTRAQ reagent technology.

Author: Gluckmann, M.; Fella, K.; Waidelich, D.; Merkel, D.; Kruft, V.; Kramer, P.J.; Walter, Y.; Hellmann, J.; Karas, M.; Kroger, M.
Year: 2007
Journal: Proteomics.
Volume: 7
Issue: 10
Pages: 1564-1574.
Date: May 7, 2007
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/114212030/ABSTRACT

1.17. Identification of candidate biomarker proteins released by human endometrial and cervical cancer cells using two-dimensional liquid chromatography/tandem mass spectrometry.

Author: Li, H.; DeSouza, L.V.; Ghanny, S.; Li, W.; Romaschin, A.D.; Colgan, T.J.; Siu, K.W.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
Issue: 7
Pages: 2615-2622
Date: Jul, 2007
URL:http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr0700798

1.18. The in vivo brain interactome of the amyloid precursor protein.

Author: Bai, Y.; Markham, K.; Chen, F.; Weerasekera, R.; Watts, J.; Horne, P.; Wakutani, Y.; Bagshaw, R.; Mathews, P.M.; Fraser, P.E.; Westaway, D.; St George-Hyslop, P.; Schmitt-Ulms, G.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 1
Pages: 15-34
Date: Jan, 2008
URL: http://www.mcponline.org/cgi/reprint/M700077-MCP200v2

1.19. Comparative proteome analysis of human epithelial ovarian cancer.

Author: Gagné JP, Ethier C, Gagné P, Mercier G, Bonicalzi ME, Mes-Masson AM, Droit A, Winstall E, Isabelle M, Poirier GG.
Year: 2007
Journal: Proteome Sci.
Volume: 5
Issue: 16
Pages: 1-15
Date: Sep 24, 2007
URL: http://www.proteomesci.com/content/5/1/16

1.20. Differential protein expression in male and female human lumbar cerebrospinal fluid using iTRAQ reagents after abundant protein depletion.

Author: Ogata Y, Charlesworth MC, Higgins L, Keegan BM, Vernino S, Muddiman DC.
Year: 2007
Journal: Proteomics
Volume: 7
Issue: 20
Pages: 3726-3734
Date: Oct, 2007
URL: http://www3.interscience.wiley.com/cgibin/abstract/116317837/ABSTRACT?CRETRY=1&SRETRY=0

1.21. The use of isobaric tag peptide labeling (iTRAQ) and mass spectrometry to examine rare, primitive hematopoietic cells from patients with chronic myeloid leukemia.

Author: Griffiths SD, Burthem J, Unwin RD, Holyoake TL, Melo JV, Lucas GS, Whetton AD.
Year: 2007
Journal: Mol. Biotechnol.
Volume: 36
Issue: 2
Pages: 81-89
Date: Jun, 2007
URL:http://journals.humanapress.com/index.php?option=com_opbookdetails&task=articledetails&category=humanajournals&article_code=MB:36:2:81

1.22. Proteomic analysis of cathepsin B- and L-deficient mouse brain lysosomes.

Author: Stahl S, Reinders Y, Asan E, Mothes W, Conzelmann E, Sickmann A, Felbor U.
Year: 2007
Journal: Mol. Biotechnol.
Volume: 1774
Issue: 10
Pages: 1237-1246
Date: Oct, 2007

1.23. Identification of differentially expressed proteins in experimental autoimmune encephalomyelitis (EAE) by proteomic analysis of the spinal cord.

Author: Liu T, Donahue KC, Hu J, Kurnellas MP, Grant JE, Li H, Elkabes S.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
Issue: 7
Pages: 2565-2575
Date: Jul, 2007
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2007/6/i07/abs/pr070012k.html

1.24. 8-Plex quantitation of changes in cerebrospinal fluid protein expression in subjects undergoing intravenous immunoglobulin treatment for Alzheimer's disease.

Author: Choe L, D'Ascenzo M, Relkin NR, Pappin D, Ross P, Williamson B, Guertin S, Pribil P, Lee KH.
Year: 2007
Journal: Proteomics
Volume: 7
Issue: 20
Pages: 3651-3660
Date: Oct, 2007
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/116320509/ABSTRACT

1.25. A multiplexed quantitative strategy for membrane proteomics: Opportunities for mining therapeutic targets for autosomal-dominant polycystic kidney disease.

Author: Han CL, Chien CW, Chen WC, Chen YR, Wu CP, Li H, Chen YJ.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 10
Pages: 1983-1997
Date: Oct, 2008
URL: http://www.mcponline.org/cgi/reprint/M800068-MCP200v1

1.26. Prognostic significance of head-and-neck cancer biomarkers previously discovered and identified using iTRAQ-labeling and multidimensional liquid chromatography-tandem mass spectrometry.

Author: Matta A, DeSouza LV, Shukla NK, Gupta SD, Ralhan R, Siu KW.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 5
Pages: 2078-87
Date: Apr 12, 2008
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2008/7/i05/abs/pr7007797.html

1.27. Quantitative and temporal proteome analysis of butyrate-treated colorectal cancer cells.

Author: Tan HT, Tan S, Lin Q, Lim TK, Hew CL, Chung MC.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 6
Pages: 1174-1185
Date: Mar 14, 2008
URL: http://www.mcponline.org/cgi/content/full/7/6/1174

1.28. Discovery and verification of head-and-neck cancer biomarkers by differential protein expression analysis using iTRAQ labeling, multidimensional liquid chromatography, and tandem mass spectrometry

Author: Ralhan R, Desouza LV, Matta A, Chandra Tripathi S, Ghanny S, Datta Gupta S, Bahadur S, Siu KW.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 6
Pages: 1162-1173
Date: Jun, 2008
URL: http://www.mcponline.org/cgi/content/full/7/6/1162

1.29. Active caspase-1 is a regulator of unconventional protein secretion.

Author: Keller M, Rüegg A, Werner S, Beer HD.
Year: 2008
Journal: Cell
Volume: 132
Issue: 5
Pages: 818-831
Date: Mar 7, 2008
URL: http://www.cell.com/content/article/abstract?uid=PIIS0092867408001116

1.30. Breast cancer related proteins are present in saliva and are modulated secondary to ductal carcinoma in situ of the breast.

Author: Streckfus CF, Mayorga-Wark O, Arreola D, Edwards C, Bigler L, Dubinsky WP.
Year: 2008
Journal: Cancer Invest.
Volume: 26
Issue: 2
Pages: 159-167
Date: Mar, 2008
URL : http://www.informaworld.com/smpp/content~db=all?content=10.1080/07357900701783883

1.31. Comparative proteomics analysis of vascular smooth muscle cells incubated with S- and R-enantiomers of atenolol using iTRAQ-coupled two-dimensional LC-MS/MS.

Author: Sui J, Zhang J, Tan TL, Ching CB, Chen WN.
Year: 2008
Journal: Mol Cell Proteomics
Volume: 7
Issue: 6
Pages: 1007-18
Date: Jun, 2008
URL : http://www.mcponline.org/cgi/content/full/7/6/1007

1.32. Identification of serum biomarkers in brain-injured adults: potential for predicting elevated intracranial pressure.

Author: Hergenroeder G, Redell JB, Moore AN, Dubinsky WP, Funk RT, Crommett J, Clifton GL, Levine R, Valadka A, Dash PK.
Year: 2008
Journal: J. Neurotrauma
Volume: 25
Issue: 2
Pages: 79-93
Date: Feb, 2008
URL : http://www.liebertonline.com/doi/abs/10.1089/neu.2007.0386

1.33. iTRAQ-facilitated proteomic analysis of human prostate cancer cells identifies proteins associated with progression.

Author*:* Glen A, Gan CS, Hamdy FC, Eaton CL, Cross SS, Catto JW, Wright PC, Rehman I.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 3
Pages: 897-907
Date: Mar, 2008
URL : http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2008/7/i03/abs/pr070378x.html

1.34. Proteomics of nasal mucus in chronic rhinosinusitis.

Author: Tewfik MA, Latterich M, DiFalco MR, Samaha M.
Year: 2007
Journal: Am. J. Rhinol.
Volume: 21
Issue: 6
Pages: 680-685
Date : Nov, 2007
URL :http://www.ingentaconnect.com/content/ocean/ajr/2007/00000021/00000006/art00006?token=0059182f03eb9a8c437a63736a425547744c3e666a5f45234a6f644a467b4d616d3f4e4b340660fc51513b6d1

1.35. iTRAQ analysis of complex proteome alterations in 3xTgAD Alzheimer's mice: understanding the interface between physiology and disease

Author: Martin B, Brenneman R, Becker KG, Gucek M, Cole RN, Maudsley S.
Year: 2008
Journal: PLoS ONE
Volume: 3
Issue: 7
Pages: e2750
Date: Jul 2008
URL: http://www.plosone.org/article/info:doi/10.1371/journal.pone.0002750

1.36. Search for Potential Markers for Prostate Cancer Diagnosis, Prognosis and Treatment in Clinical Tissue Specimens Using Amine-Specific Isobaric Tagging (iTRAQ) with Two-Dimensional Liquid Chromatography and Tandem Mass Spectrometry.

Author: Garbis SD, Tyritzis SI, Roumeliotis T, Zerefos P, Giannopoulou EG, Vlahou A, Kossida S, Diaz J, Vourekas S, Tamvakopoulos C, Pavlakis K, Sanoudou D, Constantinides CA.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 8
Pages: 3146-3158
Date : Aug 1, 2008
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2008/7/i08/abs/pr800060r.html

1.37. Comparative Proteomic Analysis of Extracellular Proteins Reveals Secretion of T-Kininogen from Vascular Smooth Muscle Cells in Response to Incubation with S-Enantiomer of Propranolol.

Author: Sui J, Zhang J, Ching CB, Chen WN.
Year: 2008
Journal: Mol. Pharm.
Volume: 5
Issue: 5
Pages: 885-890
Date : Oct, 2008
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/mpohbp/asap/abs/mp800012x.html

1.38. Metabolic and proteomic study of NS0 myeloma cell line following the adaptation to protein-free medium.

Author: de la Luz-Hernández KR, Rojas-Del Calvo L, Rabasa-Legón Y, Lage-Castellanos A, Castillo-Vitlloch A, Díaz J, Gaskell S.
Year: 2008
Journal: J. Proteomics
Volume: 71
Issue: 2
Pages: 133-147
Date : Jun 21, 2008

1.39. Identification of hypoxia-inducible factor-1 alpha as a novel target for miR-17-92 microRNA cluster.

Author: Taguchi A, Yanagisawa K, Tanaka M, Cao K, Matsuyama Y, Goto H, Takahashi T.
Year: 2008
Journal: Cancer Res.
Volume: 68
Issue: 14
Pages: 5540-5545
Date : Jul 15, 2008
URL : http://cancerres.aacrjournals.org/cgi/content/full/68/14/5540

1.40. iTRAQ analysis of complex proteome alterations in 3xTgAD Alzheimer's mice: understanding the interface between physiology and disease.

Author: Martin B, Brenneman R, Becker KG, Gucek M, Cole RN, Maudsley S.
Year: 2008
Journal: PLoS ONE.
Volume: 7
Issue: 3
Pages:
Date : Jul 23, 2008
URL : http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=18648646

1.41. A Quantitative Proteomic Approach for Identification of Potential Biomarkers in Hepatocellular Carcinoma.

Author: *Chaerkady R, Harsha HC, Nalli A, Gucek M, Vivekanandan P, Akhtar J, Cole RN, Simmers J, Schulick RD, Singh S, Torbenson M, Pandey A, Thuluvath PJ.*
Year: 2008
Journal: J Proteome Res.
Volume: 7
Issue: 10
Pages: 4289-4298
Date : Oct, 2008
URL : http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/asap/abs/pr800197z.html

1.42. Apoliopoprotein A-IV, a Putative Satiety/Antiatherogenic Factor, Rises After Gastric Bypass

Author*: Culnan, DM, Cooney RN, Stanley B, Lynch CJ*
Year: 2008
Journal: Obesity
Volume: 17
Issue: 1
Pages: 46-52
Date : Jan, 2009
URL : http://www.nature.com/oby/journal/vaop/ncurrent/

1.43. Signaling/ Differential PTM Analysis Study of nitrate stress in Desulfovibrio vulgaris Hildenborough using iTRAQ proteomics.

Author: Redding AM, Mukhopadhyay A, Joyner DC, Hazen TC, Keasling JD
Year: 2006
Journal: Brief Funct. Genomic Proteomic
Volume: 5
Issue: 2
Pages: 133-143
Date: June, 2006
URL: http://bfgp.oxfordjournals.org/cgi/content/short/ell025v1

1.44. Carbon Source-dependent Assembly of the Snf1p Kinase Complex in Candida albicans

Author: Corvey C, Koetter, P.; Beckhaus, T.; Hack, J.; Hofmann, S.; Hampel, M.; Stein, T.; Karas, M.; Entian, K.
Year: 2005
Journal: J. Biol. Chem.
Volume: 280
Issue: 27
Pages: 25323-25330
Date: July 8, 2005
URL: http://www.jbc.org/cgi/content/abstract/280/27/25323

1.45. Quantitative Proteomic Analysis Using Isobaric Protein Tags Enables Rapid Comparison of Changes in Transcript and Protein Levels in Transformed Cells

Author: Unwin, R.D.; Pierce, A.; Watson, R.B.; Sternberg, D.W.; Whetton, A.D.
Year: 2005
Journal: Mol. Cell. Proteomics
Volume: 4
Issue: 7
Pages: 924-935
Date: July 1, 2005
URL: http://www.mcponline.org/cgi/content/short/M400193-MCP200v1

1.46. Quantitative Mass Spectrometric Analysis of CRALBP-Protein Interactions

Author: Crabb, J. S.; Gu, X.; Nawrot, M.; Saari, J. C.; Crabb, J. W.
Year: 2006
Journal: Invest. Ophthalmol. Vis. Sci.
Volume: 47
Issue: 5
Pages: 2039
Date: May 1, 2006
URL: http://abstracts.iovs.org/cgi/content/abstract/47/5/2039

1.47. C-Terminal Signal Sequence Promotes Virulence Factor Secretion in Mycobacterium tuberculosis

Author: Champion PA., Stanley SA, Champion, MM, Brown E.J., Cox J.S.
Year: 2006
Journal: Science
Volume: 313
Issue: 5793
Pages: 1632-1636
URL: http://www.sciencemag.org/cgi/content/abstract/313/5793/1632

1.48. Time-resolved Mass Spectrometry of Tyrosine Phosphorylation Sites in the Epidermal Growth Factor Receptor Signaling Network Reveals Dynamic Modules

Author: Zhang, Y.; Wolf-Yadlin, A.; Ross, P.L.; Pappin, D.J.; Rush, J.; Lauffenburger, D.A.; White, F.M.
Year: 2005
Journal: Mol. Cell. Proteomics
Volume: 4
Issue: 9
Pages: 1240-1250
Date: September 1, 2005
URL: http://www.mcponline.org/cgi/content/short/M500089-MCP200v

1.49. Temporal quantitation of mutant Kit tyrosine kinase signaling attenuated by a novel thiophene kinase inhibitor OSI-930.\

Author: Petti F, Thelemann A, Kahler J, McCormack S, Castaldo L, Hunt T, Nuwaysir L, Zeiske L, Haack H, Sullivan L, Garton A, Haley JD.
Year: 2005
Journal: Mol. Cancer Ther.
Volume: 4
Issue: 8
Pages: 1186-1197
URL:http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16093434&query_hl=6&itool=pubmed_docsum

1.50. Analysis of the defence phosphoproteome of Arabidopsis thaliana using differential mass tagging

Author: Alexandra M. E. Jones, Mark H. Bennett, John W. Mansfield, Murray Grant
Year: 2006
Journal: Proteomics
Volume: 6
Issue: 14
Pages: 4155-4165
URL: http://dx.doi.org/10.1002/pmic.200500172

1.51. Phosphopeptide quantitation using amine-reactive isobaric tagging reagents and tandem mass spectrometry: application to proteins isolated by gel electrophoresis

Author: Sachon E., Mohammed S., Bache, N., Jensen O.N.
Year: 2006
Journal: Rap. Commun. in Mass Spectrometry
Volume: 20
Issue: 7
Pages: 1127-1134
URL: http://dx.doi.org/10.1002/rcm.2427

1.52. Quantitative Analysis of Phosphotyrosine Signaling Networks Triggered by CD3 and CD28 Costimulation in Jurkat Cells

Author: Kim, J.; White, F.M.
Year: 2006
Journal: J. Immunol.
Volume: 176
Issue: 5
Pages: 2833-2843
Date: March 1, 2006
URL: http://www.jimmunol.org/cgi/content/abstract/176/5/2833

1.53. Temporal Dynamics of Tyrosine Phosphorylation in Insulin Signaling

Author: Schmelzle, Katrin; Kane, Susan; Gridley, Scott; Lienhard, Gustav E.; White, Forest M.
Year: 2006
Journal: Diabetes
Volume: 55
Issue: 8
Pages: 2171-2179
Date: August 1, 2006
URL: http://diabetes.diabetesjournals.org/cgi/content/abstract/55/8/2171

1.54. Automated Identification and Quantification of Protein Phosphorylation Sites by LC/MS on a Hybrid Triple Quadrupole Linear Ion Trap Mass Spectrometer

Author: Williamson, B.L.; Marchese, J.; Morrice, N.A.
Year: 2006
Journal: Mol. Cell. Proteomics
Volume: 5
Issue: 2
Pages: 337-346
Date: February 1, 2006
URL: http://www.mcponline.org/cgi/content/short/M500210-MCP200v1

1.55. Effects of HER2 overexpression on cell signaling networks governing proliferation and migration

Author: Alejandro Wolf-Yadlin, Kumar N., Zhang Y., Hautaniemi S., Zaman, M., Kim, H., Grantcharova, V., Lauffenburger D.A., White F.M.
Year: 2006
Journal: Molecular Systems Biology
Volume: Web Article
Article number: 54
Date: October 3, 2006
URL: http://www.nature.com/msb/journal/v2/n1/synopsis/msb4100094.html

1.56. Multiple reaction monitoring for robust quantitative proteomic analysis of cellular signaling networks

Author: Wolf-Yadlin, A., Hautaniemi S., Lauffenburger, D.A., White, F.M.
Year: 2007
Journal: PNAS
Volume: 104
Issue: 14
Pages: 5860-5865
Date: April 3, 2007
URL: http://www.pnas.org/cgi/content/full/104/14/5860

1.57. Quantitative Proteomics and Protein Network Analysis of Hippocampal Synapses of CaMKIIalpha Mutant Mice

Author: Li KW, Miller S, Klychnikov O, Loos M, Stahl-Zeng J, Spijker S, Mayford M, Smit AB
Year: 2007
Journal: J. Proteome Res.
Volume: 6
Issue: 8
Pages: 3127-3133
Date: Aug 2007
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr070086w

1.58. Proteomic analysis of IL-7 induced signaling effectors show selective changes in IL-7Ralpha 449F knock-in T cell progenitors

Author: Duthie KA, Osborne LC, Foster LJ, Abraham N.
Year: 2007
Journal: Mol. Cell. Proteomics
Volume: 6
Issue: 10
Pages: 1700-1710
Date: Oct. 2007
URL:http://www.mcponline.org/cgi/reprint/M600468-MCP200v1

1.59. Post-translational modifications in the rat lumbar spinal cord in experimental autoimmune encephalomyelitis

Author: Grant JE, Hu J, Liu T, Jain MR, Elkabes S, Li H.
Year: 2007
Journal: J Proteome Res
Volume: 6
Issue: 7
Pages: 2786-91
Date: 2007 Jun 13
URL:http://www.mcponline.org/cgi/reprint/M600468-MCP200v1

1.60. Rat liver peroxisomes after fibrate treatment: A survey using quantitative mass spectrometry

Author: Islinger M, Luers GH, Li KW, Loos M, Volkl A.
Year: 2007
Journal: J. Biol. Chem.
Volume: 282
Issue: 32
Pages: 23055-23069
Date: Aug 2007
URL:http://www.jbc.org/cgi/reprint/M610910200v18-MCP200v1

1.61. Quantitative proteomic analysis of protein complexes: Concurrent identification of interactors and their state of phosphorylation

Author: Pflieger D, Jünger M, Müller M, Rinner O, Lee H, Gehrig P, Gstaiger M, Aebersold R.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
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Date: Feb, 2008
URL: http://www.mcponline.org/cgi/reprint/M700282-MCP200v1

1.62. Eight-channel iTRAQ enables comparison of the activity of 6 leukaemogenic tyrosine kinases

Author: Pierce A, Unwin RD, Evans CA, Griffiths S, Carney L, Zhang L, Jaworska E, Lee CF, Blinco D, Okoniewski MJ, Miller CJ, Bitton DA, Spooncer E, Whetton AD.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 5
Pages: 853-863
Date: May, 2008
URL: http://www.mcponline.org/cgi/reprint/M700251-MCP200v1

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Author: Liang X, Fonnum G, Hajivandi M, Stene T, Kjus NH, Ragnhildstveit E, Amshey JW, Predki P, Pope RM.
Year: 2007
Journal: J. Am. Soc. Mass Spectrom.
Volume: 18
Issue: 11
Pages: 1932-1944
Date: Nov, 2007

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Author: Bantscheff M, Eberhard D, Abraham Y, Bastuck S, Boesche M, Hobson S, Mathieson T, Perrin J, Raida M, Rau C, Reader V, Sweetman G, Bauer A, Bouwmeester T, Hopf C, Kruse U, Neubauer G, Ramsden N, Rick J, Kuster B, Drewes G.
Year: 2007
Journal: Nat. Biotechnol.
Volume: 25
Issue: 9
Pages: 1035-1044
Date: Sep, 2007
URL:http://www.nature.com/nbt/journal/v25/n9/abs/nbt1328.html;jsessionid=C15A95AB0C5A82DD6AC26D355AFDCA43

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Author: Qian M, Sleat DE, Zheng H, Moore D, Lobel P.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 1
Pages: 58-70
Date: Jan, 2008
URL:http://www.mcponline.org/cgi/reprint/M700217-MCP200v1

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Author: Domanski D, Helbing CC.
Year: 2007
Journal: BMC Dev. Biol.
Volume: 7
Issue:
Pages: 94
Date: Aug 6, 2007
URL:http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=17683616

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Author: Zhou L, Beuerman RW, Huang L, Barathi A, Foo YH, Li SF, Chew FT, Tan D.
Year: 2007
Journal: Proteomics
Volume: 7
Issue: 17
Pages: 3194-3206
Date: Sep, 2007
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/114800967/ABSTRACT

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Author: JC Trinidad, A Thalhammer, CG Specht, AJ Lynn, PR Baker, R Schoepfer, AL Burlingame
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 4
Pages: 684-696
Date: Apr, 2008
URL: http://www.mcponline.org/cgi/reprint/M700170-MCP200v1

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Author: Bantscheff M, Hopf C, Kruse U, Drewes G.
Year: 2007
Journal: Ernst Schering Found Symp Proc
Volume: 3
Issue:
Pages: 1-28
Date :
URL:

1.70. Post-translational modification of cellular proteins during Leishmania donovani differentiation.

Author: Rosenzweig D, Smith D, Myler PJ, Olafson RW, Zilberstein D.
Year: 2008
Journal: Proteomics.
Volume: 8
Issue: 9
Pages: 1843-1850
Date: May, 2008
URL: http://www3.interscience.wiley.com/journal/117954467/abstract

1.71. Cross-talk between GlcNAcylation and phosphorylation: site-specific phosphorylation dynamics in response to globally elevated O-GlcNAc.

Author: Wang Z, Gucek M, Hart GW.
Year: 2008
Journal: Proc Natl Acad Sci U S A.
Volume: 105
Issue: 37
Pages: 13793-13798.
Date : Sep 8, 2008
URL : http://www.pnas.org/content/105/37/13793

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Author: Beerelli, S.
Year: 2006
Journal: Proteomics
Volume: 6
Issue: 19
Pages: 5169-5182
URL: http://dx.doi.org/10.1002/pmic.200600209

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Author: Frank, R. N.; Kennedy, A.; Yao, B.; Walker, A.
Year: 2006
Journal: Invest. Ophthalmol. Vis. Sci.
Volume: 47
Issue: 5
Pages: 1737
Date: May 1, 2006
URL: http://abstracts.iovs.org/cgi/content/abstract/47/5/1737

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Author: Unwin, R.D.; Smith, D.L.; Blinco, D.; Wilson, C.L.; Miller, C.J.; Evans, C.A.; Jaworska, E.; Baldwin, S.A.; Barnes, K.; Pierce, A.; Spooncer, E.; Whetton, A.D.
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Journal: Blood
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URL: http://www.bloodjournal.org/cgi/content/short/2005-12-4995v1

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Author: Salim K, Kehoe L, Minkoff MS, Bilsland JG, Munoz-Sanjuan I, Guest PC.
Year: 2006
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Date: Jun, 2006
URL:http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?db=pubmed&cmd=Retrieve&dopt=AbstractPlus&list_uids=16846381&itool=iconabstr&query_hl=13&itool=pubmed_docsum

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Author: Scherl A, Francois P, Charbonnier Y, Deshusses JM, Koessler T, Huyghe A, Bento M, Stahl-Zeng J, Fischer A, Masselot A, Galle F, Renzoni A, Vaudaux P, Lew D, Zimmerman-Ivol CG, Binz PA, Sanchez JC, Hochstrasser DF, Schrenzel J
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Journal: BMC Genomics
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URL: http://www.biomedcentral.com/1471-2164/7/296

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Author: Nissom PM, Sanny A, Kok YJ, Hiang YT, Chuah SH, Shing TK, Lee YY, Wong KT, Hu WS, Sim MY, Philp R.
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URL:http://journals.humanapress.com/index.php?option=com_opbookdetails&task=articledetails&category=humanajournals&article_code=MB:34:2:125

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Author: Jayapal KP, Philp RJ, Kok YJ, Yap MG, Sherman DH, Griffin TJ, Hu WS.
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Volume: 3
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URL: http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=18461186

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Journal: Proteomics.
Volume: 8
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Date: Apr, 2008
URL: http://www3.interscience.wiley.com/journal/117943833/abstract

2.9. The identification of potential factors associated with the development of type 2 diabetes: A quantitative proteomic approach

Author: Lu H, Yang Y, Allister EM, Wijesekara N, Wheeler MB.
Year: 2008
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Pages: 1434-1451
Date: Aug, 2008
URL: http://www.mcponline.org/cgi/reprint/M700478-MCP200v1

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Author: Jagtap P., Michailidis G, Zielke R, Walker AK, Patel N, Strahler JR, Driks A, Andrews PC, Maddock JR
Year: 2006
Journal: Proteomics
Volume: 6
Issue: 19
Pages: 5199-5211
URL: http://dx.doi.org/10.1002/pmic.200600314

3.2. Simultaneous proteomic profiling of four different growth states of human fibroblasts, using amine-reactive isobaric tagging reagents and tandem mass spectrometry

Author: Cong, Y.; Fan, E.; Wang, E.
Year: 2006
Journal: Mechanisms of Ageing and Development
Volume: 127
Issue: 4
Pages: 332
URL: http://www.sciencedirect.com/science/article/B6T31-4J3NY2V-1/2/20628b5b7934440b3b08399c2d18a6e4

3.3. Warm Ischemia-induced Alterations in Oxidative and Inflammatory Proteins in Hepatic Kupffer Cells in Rats

Author: Hirsch, J.; Hansen, K.C.; Choi, S.; Noh, J.; Hirose, R.; Roberts, J.P.; Matthay, M.A.; Burlingame, A.L.; Maher, J.J.; Niemann, C.U.
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Journal: Mol. Cell. Proteomics
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Date: June 1, 2006
URL: http://www.mcponline.org/cgi/content/abstract/5/6/979

3.4. Differential expression analysis of proteins from neutrophils in the periparturient period and neutrophils from dexamethasone-treated dairy cows

Author: Lippolis, J.D.; Peterson-Burch, B.D.; Reinhardt, T.A.
Year: 2006
Journal: Veterinary Immunology and Immunopathology
Volume: 111
Issue: 3-4
Pages: 149
URL: http://www.sciencedirect.com/science/article/B6TD5-4J2KRNB-1/2/a8d472f9d7f4c08fbfc02a1902c7aa00

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Author: Liu, T.; D'Mello, V.; Deng, L.; Hu, J.; Ricardo, M.; Pan, S.; Lu, X.; Wadsworth, S.; Siekierka, J.; Birge, R.; Li, H.
Year: 2006
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URL: http://www.sciencedirect.com/science/article/B6T04-4K7WHYX-1/2/6fb2b0d1cfba09d480ee537505d9fae1

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Journal: Mol. Cell. Proteomics
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Author: Choumet V., Carmi-Leroy A., Laurent C., Lenormand P., Rousselle J.C., Namane A., Roth C., Brey P.T.
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Author: Aggarwal K, Choe LH, Lee KH.
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Journal: Proteomics
Volume: 5
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Pages: 2297-2308
Date: June 1, 2005
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/110492759/ABSTRACT

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Author: Chong, P. K.; Gan, C. S.; Pham, T. K.; Wright, P. C.
Year: 2006
Journal: J. Proteome Res.
Volume: 5
Issue: 5
Pages: 1232-1240
Date: May 5, 2006
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2006/5/i05/abs/pr060018u.html

4.3. Proteome Changes after Metabolic Engineering to Enhance Aerobic Mineralization of cis-1,2-Dichloroethylene

Author Lee, J.; Cao, L.; Ow, S. Y.; Barrios-Llerena, M. E.; Chen, W.; Wood, T. K.; Wright, P. C.
Year: 2006
Journal: J. Proteome Res.
Volume: 5
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Date: June 2, 2006
URL: http://jb.asm.org/cgi/content/short/JB.00090-07v1

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Author: Jiang M, Sullivan SM, Walker AK, Strahler JR, Andrews PC, Maddock JR.
Year: 2007
Journal: J. Bacteriol.
Volume: 189
Issue: 9
Pages: 3434-3444
Date: May, 2007
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2006/5/i06/abs/pr060008t.html

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Author: Evans FF, Raftery MJ, Egan S, Kjelleberg S.
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Date: Mar 6, 2007
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr060416x

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Author: Chong PK, Burja AM, Radianingtyas H, Fazeli A, Wright PC.
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Date: Apr, 2007
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Author: Pandhal J, Wright PC, Biggs CA.
Year: 2007
Journal: J. Proteome Res.
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Pages: 996-1005
Date: Mar 6, 2007
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr060460c

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Author: Stensjo K, Ow SY, Barrios-Llerena ME, Lindblad P, Wright PC.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
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URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr060460c

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Author: Chong PK, Burja AM, Radianingtyas H, Fazeli A, Wright PC.
Year: 2007
Journal: Proteomics
Volume: 7
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Date: Feb, 2007
URL:http://www3.interscience.wiley.com/cgibin/abstract/114042061/ABSTRACT?CRETRY=1&SRETRY=0

4.10. Proteome and differential expression analysis of membrane and cytosolic proteins from Mycobacterium avium subsp. paratuberculosis strains K-10 and 187.

Author: Radosevich TJ, Reinhardt TA, Lippolis JD, Bannantine JP, Stabel JR.
Year: 2007
Journal: J. Bacteriol.
Volume: 189
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Date: Dec, 2006
URL: http://jb.asm.org/cgi/content/full/189/3/1109?view=long&pmid=17142399

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Author: Danielsen M, Hornshoj H, Siggers RH, Jensen BB, van Kessel AG, Bendixen E.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
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Date: Jun 2, 2007
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr070038b

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Author: Abram F, Su WL, Wiedmann M, Boor KJ, Coote P, Botting C, Karatzas KA, O'Byrne CP.
Year: 2008
Journal: Appl. Environ. Microbiol.
Volume: 74
Issue: 3
Pages: 594-604
Date: Feb, 2008
URL: http://aem.asm.org/cgi/reprint/AEM.01921-07v1?view=long&pmid=18065622

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Author: Zeaiter Z, Cohen D, Müsch A, Bagnoli F, Covacci A, Stein M.
Year: 2008
Journal: Cell Microbiol.
Volume: 10
Issue: 3
Pages: 781-94
Date: Mar, 2007
URL: http://www.blackwell-synergy.com/toc/cmi//

4.14. Comparative Proteomics Analyses Reveal a Potential Biomarker for the Detection of Vancomycin-Intermediate Staphylococcus aureus Strains.

Author: Drummelsmith J, Winstall E, Bergeron MG, Poirier GG, Ouellette M.
Year: 2007
Journal: J Proteome Res
Volume: 6
Issue: 12
Pages: 4690-4702
Date: Dec, 2007
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2007/6/i12/abs/pr070521m.html

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Author: Chong PK, Burja AM, Radianingtyas H, Fazeli A, Wright PC.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
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Pages: 3985-3994
Date: Oct, 2007
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2007/6/i10/abs/pr070232y.html

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Year: 2008
Journal: J. Proteome Res.
Volume: 7
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Pages: 1836-1849
Date: May, 2008
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2008/7/i05/abs/pr700624e.html

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Author: Ow SY, Cardona T, Taton A, Magnuson A, Lindblad P, Stensjö K, Wright PC.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 4
Pages: 1615-1628
Date: Apr, 2008
URL : http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2008/7/i04/abs/pr700604v.html

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Author: Tafelmeyer P, Laurent C, Lenormand P, Rousselle JC, Marsollier L, Reysset G, Zhang R, Sickmann A, Stinear TP, Namane A, Cole ST.
Year: 2008
Journal: Proteomics
Volume: 8
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Date : Aug, 2008
URL : http://www3.interscience.wiley.com/journal/120736122/abstract

4.19. Halobacterium salinarum NRC-1 PeptideAtlas: Toward Strategies for Targeted Proteomics and Improved Proteome Coverage.

Author: Van PT, Schmid AK, King NL, Kaur A, Pan M, Whitehead K, Koide T, Facciotti MT, Goo YA, Deutsch EW, Reiss DJ, Mallick P, Baliga NS.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
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Pages: 3755-3764
Date : Jul 25, 2008
URL : http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/asap/abs/pr800031f.html

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Author: Zeaiter Z, Huynh HQ, Kanyo R, Stein M.
Year: 2008
Journal: FEMS Microbiol. Lett.
Volume: 288
Issue: 2
Pages: 227-234
Date : Sep 10, 2008
URL : http://www3.interscience.wiley.com/journal/121415512/abstract?CRETRY=1&SRETRY=0

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Author: Pham TK, Wright PC.
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Journal: J. Proteome Res.
Volume: 7
Issue: 11
Pages: 4766-4774
Date : Nov, 2008
URL : http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/asap/abs/pr800331s.html

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Author: Chen, X.; Walker, A.K.; Strahler, J.R.; Simon, E.S.; Tomanicek-Volk, S.L.; Nelson, B.B.; Hurley, M.C.; Ernst, S.A.; Williams, J.A.; Andrews, P.C.
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Volume: 5
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Date: February 1, 2006
URL: http://www.mcponline.org/cgi/content/short/M500172-MCP200v1

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Author: Lund, Troy; McCullar, Valarie; Anderson, Lorraine B.; Miller, Jeffrey S.
Year: 2005
Journal: Blood (ASH Annual Meeting Abstracts)
Volume: 106
Issue: 11
Pages: 3316
Date: November 16, 2005
URL: http://meeting.bloodjournal.org/cgi/content/abstract/106/11/3316

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Author: Reinders Y, Schulz I, Graf R, Sickmann A
Year: 2006
Journal: J. Proteome Res.
Volume: 5
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Pages: 589-598
URL: http://pubs.acs.org/cgi-bin/abstract.cgi/jprobs/2006/5/i03/abs/pr050350q.html

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Author: Guo Y, Singleton PA, Rowshan A, Gucek M, Cole RN, Graham DR, Van Eyk JE, Garcia JG.
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Journal: Mol. Cell Proteomics
Volume: 6
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URL: http://www.mcponline.org/cgi/content/full/6/4/689

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Author: Lund TC, Anderson LB, McCullar V, Higgins L, Yun GH, Grzywacz B, Verneris MR, Miller JS.
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URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr0603912

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Author: Borner GH, Harbour M, Hester S, Lilley KS, Robinson MS.
Year: 2006
Journal: J Cell Biol.
Volume: 175
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Date: Nov, 2006
URL: http://www.jcb.org/cgi/content/full/175/4/571

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Author: Li Z, Lin Q, Chen J, Wu JL, Lim TK, Loh SS, Tang X, Hew CL
Year: 2007
Journal: Mol. Cell. Proteomics
Volume: 6
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Date: Sep, 2007
URL: http://www.mcponline.org/cgi/reprint/M600327-MCP200v1

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Author: Meany DL, Xie H, Thompson LV, Arriaga EA, Griffin TJ
Year: 2007
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Volume: 7
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Pages: 1150-1163
Date: Apr 7, 2007
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/114202493/ABSTRACT

5.9. Mass spectrometric quantitation of covalently bound cell wall proteins in Saccharomyces cerevisiae.

Author: Yin QY, de Groot PW, de Jong L, Klis FM, De Koster CG
Year: 2007
Journal: FEMS Yeast Res
Volume: 6
Issue: 7
Pages: 2615-22
Date: Jul 6, 2007
URL: http://www.blackwell-synergy.com/doi/abs/10.1111/j.1567-1364.2007.00272.x

5.10. Proteomic identification of cellular protease substrates using isobaric tags for relative and absolute quantification (iTRAQ).

Author: Dean RA, Smith D, Overall CM.
Year: 2007
Journal: Curr. Protoc. Protein Sci.
Volume: Chapter 21:Unit 21
Issue:
Pages: 18
Date: Aug, 2007

5.11. Glutathione-S-transferase pi as a model protein for the characterisation of chemically reactive metabolites.

Author: Jenkins RE, Kitteringham NR, Goldring CE, Dowdall SM, Hamlett J, Lane CS, Boerma JS, Vermeulen NP, Park BK.
Year: 2008
Journal: Proteomics
Volume: 8
Issue: 2
Pages: 301-315
Date : Jan, 2008
URL : http://www3.interscience.wiley.com/journal/117889498/abstract

5.12. Is the failing heart out of fuel or a worn engine running rich? A study of mitochondria in old spontaneously hypertensive rats.

Author*:* Jüllig M, Hickey AJ, Chai CC, Skea GL, Middleditch MJ, Costa S, Choong SY, Philips AR, Cooper GJ.
Year: 2008
Journal: Proteomics
Volume: 8
Issue: 12
Pages: 2556-2572
Date : Jun, 2008
URL: http://www3.interscience.wiley.com/journal/119880342/abstract?CRETRY=1&SRETRY=0

5.13. Global topology analysis of pancreatic zymogen granule membrane proteins

Author: Chen X, Ulintz PJ, Simon ES, Williams JA, Andrews PC.
Year: 2008
Journal: Mol. Cell. Proteomics
Volume: 7
Issue: 12
Pages: 2323-2336
Date : Aug, 2008
URL : http://www.mcponline.org/cgi/reprint/M700575-MCP200v1

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

Author: Eriksson H, Lengqvist J, Hedlund J, Uhlén K, Orre LM, Bjellqvist B, Persson B, Lehtiö J, Jakobsson PJ.
Year: 2008
Journal: Proteomics
Volume: 8
Issue: 15
Pages: 3008-3018
Date : Aug, 2008
URL : http://www3.interscience.wiley.com/journal/120847225/abstract

6. Lipids / Phospholipids

6.1. Analysis of cell membrane aminophospholipids as isotope-tagged derivatives

Author: Berry, K.A.; Murphy, Robert C.
Year: 2005
Journal: J. Lipid Res.
Volume: 46
Issue: 5
Pages: 1038-1046
Date: May 1, 2005
URL: http://www.jlr.org/cgi/content/short/M500014-JLR200v1

6.2. Analysis of polyunsaturated aminophospholipid molecular species using isotope-tagged derivatives and tandem mass spectrometry/mass spectrometry/mass spectrometry

Author: Zemski Berry, K.A.; Murphy, Robert C.
Year: 2006
Journal: Anal. Biochem.
Volume: 349
Issue: 1
Pages: 118
URL:http://elsevier.lib.tsinghua.edu.cn/cgibin/sciserv.pl?collection=journals&journal=00032697&issue=v349i0001&article=118_aopamsatmsss

7. Plant Biology

7.1. Mapping the Arabidopsis organelle proteome

Author: Dunkley, T.P.J.; Hester, S.; Shadforth, I.P.; Runions, J.; Weimar, T.; Hanton, S.L.; Griffin, J.L.; Bessant, C.; Brandizzi, F.; Hawes, C.; Watson, R.B.; Dupree, P.; Lilley, K.S.
Year: 2006
Journal: PNAS
Volume: 103
Issue: 17
Pages: 6518-6523
Date: April 25, 2006
URL: http://www.pnas.org/cgi/content/abstract/103/17/6518

7.2. Downregulation of ClpR2 Leads to Reduced Accumulation of the ClpPRS Protease Complex and Defects in Chloroplast Biogenesis in Arabidopsis

Author: Rudella, A.; Friso, G.; Alonso, J.M.; Ecker, J.R.; van Wijk, K.J.
Year: 2006
Journal: PLANT CELL
Volume: 18
Issue: 7
Pages: 1704-1721
Date: July 1, 2006
URL: http://www.plantcell.org/cgi/content/short/tpc.106.042861v1

7.3. Increased abundance of proteins involved in phytosiderophore production in boron-tolerant barley

Author: Patterson J, Ford K, Cassin A, Natera S, Bacic A.
Year: 2007
Journal: Plant Physiol.
Volume: 144
Issue: 3
Pages: 1612-31
Date: May 3, 2007
URL:http://www.plantphysiol.org/cgi/content/full/144/3/1612

7.4. Proteomic analyses of Fusarium graminearum grown under mycotoxin-inducing conditions

Author: Taylor RD, Saparno A, Blackwell B, Anoop V, Gleddie S, Tinker NA, Harris LJ.
Year: 2008
Journal: Proteomics
Volume: 8
Issue: 11
Pages: 2256-2265
Date: Jun 2, 2008
URL: http://www3.interscience.wiley.com/journal/119030236/abstract?CRETRY=1&SRETRY=0

7.5. Quantitative proteomics of a chloroplast SRP54 sorting mutant and its genetic interactions with CLPC1 in Arabidopsis thaliana

Author: Rutschow H, Ytterberg AJ, Friso G, Nilsson R, van Wijk KJ.
Year: 2008
Journal: Plant Physiol.
Volume: 148
Issue: 1
Pages: 156-175
Date : Sep, 2008
URL : http://www.plantphysiol.org/cgi/rapidpdf/pp.108.124545v1

7.6. Effector proteins of the bacterial pathogen Pseudomonas syringae alter the extracellular proteome of the host plant, Arabidopsis thaliana.

Author: Kaffarnik FA, Jones AM, Rathjen JP, Peck SC.
Year: 2009
Journal: Mol. Cell. Proteomics
Volume: 8
Issue: 1
Pages: 145-156
Date : Jan, 2009
URL : http://www.plantphysiol.org/cgi/rapidpdf/pp.108.124545v1

8. iTRAQ reagent Methods/Reviews

8.1. Multiplexed Protein Quantitation in Saccharomyces cerevisiae using Amine-Reactive Isobaric Tagging Reagents

Author: Ross PL, Huang YN, Marchese JN, Williamson B, Parker K, Hattan S, Khainovski N, Pillai S, Dey S, Daniels S, Purkayastha S, Juhasz P, Martin S, Bartlet-Jones M, He F, Jacobson A, Pappin DJ
Year: 2004
Journal: Mol. Cell. Proteomics
Volume: 3
Issue: 12
Pages: 1154-1169
URL: http://www.mcponline.org/cgi/content/short/M400129-MCP200v2

8.2. A Comparison of the Consistency of Proteome Quantitation Using Two-Dimensional Electrophoresis and Shotgun Isobaric Tagging in Escherichia coli Cells

Author: Choe LH, Aggarwal K, Franck Z, Lee KH.
Year: 2005
Journal: Electrophoresis
Volume: 26
Issue: 12
Pages: 2437-4249
Date: June 1, 2005
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/110504904/ABSTRACT

8.3. Comparative study of three proteomic quantitative methods, DIGE, cICAT, and iTRAQ, using 2D gel- or LC-MALDI TOF/TOF.

Author: Wu WW, Wang G, Baek SJ, Shen RF.
Year: 2006
Journal: J. Proteome Res.
Volume: 5
Issue: 3
Pages: 651-658
Date: March, 2006
URL: http://pubs.acs.org/cgi-bin/sample.cgi/jprobs/2006/5/i03/abs/pr050405o.html

8.4. Shotgun proteomics using the iTRAQ isobaric tags

Author: Aggarwal, Kunal; Choe, Leila H.; Lee, Kelvin H.
Year: 2006
Journal: Brief Funct. Genomic Proteomic
Volume: 5
Issue: 2
Pages: 112-120
Date: June 1, 2006
URL: http://bfgp.oxfordjournals.org/cgi/content/short/ell018v1

8.5. Optimized proteomic analysis of a mouse model of cerebellar dysfunction using amine-specific isobaric tags

Author: Hu J., Qian J., Borisov O., Pan S., Li Y., Liu T., Deng L., Wannemacher K., Kurnellas M., Patterson C., Elkabes C., Li H.
Year: 2006
Journal: Proteomics
Volume: 6
Issue: 15
Pages: 4321-4334
URL: http://dx.doi.org/10.1002/pmic.200600026

8.6. A perspective on the use of iTRAQ reagent technology for protein complex and profiling studies.

Author: Zieske, L.R
Year: 2006
Journal: J. Exp. Bot.
Volume: 57
Issue: 7
Pages: 1501-1508
URL: http://jxb.oxfordjournals.org/cgi/content/short/erj168v1

8.7. Technical, experimental, and biological variations in isobaric tags for relative and absolute quantitation (iTRAQ).

Author: Gan CS, Chong PK, Pham TK, Wright PC.
Year: 2007
Journal: J. Proteome Res.
Volume: 6
Issue: 2
Pages: 821-827
URL: http://jxb.oxfordjournals.org/cgi/content/short/erj168v1

8.8. Protein labeling by iTRAQ: A new tool for quantitative mass spectrometry in proteome research.

Author: Wiese S, Reidegeld KA, Meyer HE, Warscheid B.
Year: 2007
Journal: Proteomics
Volume: 7
Issue: 3
Pages: 340-350
URL: http://www3.interscience.wiley.com/cgi-bin/abstract/114189015/ABSTRACT

8.9. Identification of proteolytic cleavage sites by quantitative proteomics

Author: Enoksson M, Li J, Ivancic MM, Timmer JC, Wildfang E, Eroshkin A, Salvesen GS, Tao WA
Year: 2007
Journal: J. Proteome Res.
Volume: 6
Issue: 7
Pages: 2850-2858
URL: http://pubs3.acs.org/acs/journals/doilookup?in_doi=10.1021/pr0701052

8.10. iTRAQ compatibility of peptide immobilized pH gradient isoelectric focusing

Author: Lengqvist J, Uhlen K, Lehtio J.
Year: 2007
Journal: Proteomics
Volume: 7
Issue: 11
Pages: 1746-1752
URL : http://www3.interscience.wiley.com/cgi-bin/abstract/114239924/ABSTRACT

8.11. Comprehensive proteomic analysis of protein changes during platelet storage requires complementary proteomic approaches

Author: Thon JN, Schubert P, Duguay M, Serrano K, Lin S, Kast J, Devine DV.
Year: 2008
Journal: Transfusion
Volume: 48
Issue: 3
Pages: 425-435
Date: Mar, 2008
URL: http://www.blackwell-synergy.com/toc/trf//

8.12. A comparison of nLC-ESI-MS/MS and nLC-MALDI-MS/MS for GeLC-based protein identification and iTRAQ-based shotgun quantitative proteomics.

Author: Yang Y, Zhang S, Howe K, Wilson DB, Moser F, Irwin D, Thannhauser TW.
Year: 2007
Journal: J. Biomol. Tech.
Volume: 18
Issue: 4
Pages: 226-237
Date: Sep 2007
URL: http://jbt.abrf.org/cgi/content/full/18/4/226

8.13. Relative quantitation of proteins fractionated by the ProteomeLab PF 2D system using isobaric tags for relative and absolute quantitation (iTRAQ).

Author: Skalnikova H, Rehulka P, Chmelik J, Martinkova J, Zilvarova M, Gadher SJ, Kovarova H.
Year: 2007
Journal: Anal. Bioanal. Chem.
Volume: 389
Issue: 5
Pages: 1639-1645
Date: Nov 2007
URL: http://www.springerlink.com/content/y86g50554650w344/

8.14. Peptides OFFGEL electrophoresis: a suitable pre-analytical step for complex eukaryotic samples fractionation compatible with quantitative iTRAQ labeling.

Author: Chenau J, Michelland S, Sidibe J, Seve M.
Year: 2008
Journal: Proteome Sci
Volume: 6
Issue:
Pages: 6-9
Date: Feb 26, 2008
URL : http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=18302743

8.15. Electron Transfer Dissociation of iTRAQ Labeled Peptide Ions

Author: Han H, Pappin DJ, Ross PL, McLuckey SA.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 9
Pages: 3643-3648
Date : Jul 23, 2008
URL : http://www.pubmedcentral.nih.gov/articlerender.fcgi?tool=pubmed&pubmedid=18648646

8.16. Amine-reactive isobaric tagging reagents: requirements for absolute quantification of proteins and peptides.

Author: Quaglia M, Pritchard C, Hall Z, O'Connor G..
Year: 2008
Journal: Anal. Biochem.
Volume: 379
Issue: 2
Pages: 164-169
Date: Aug 15, 2008
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W9V-4SGD4V4-1&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=ac38666f2aa1d41ec2fed9f69aa55626

8.17. Detection of protein modifications and counterfeit protein pharmaceuticals using isotope tags for relative and absolute quantification and matrix-assisted laser desorption/ionization tandem time-of-flight mass spectrometry: studies of insulins

Author: Ye H, Hill J, Kauffman J, Gryniewicz C, Han X.
Year: 2008
Journal: Anal. Biochem.
Volume: 379
Issue: 2
Pages: 182-191
Date: Aug 15, 2008
URL: http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6W9V-4SCKRVV-1&_user=10&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=b39262e7f5cec6db8d9e5048560a1f3b

8.18. Peptide and Protein Quantification Using iTRAQ with Electron Transfer Dissociation.

Author: Phanstiel D, Zhang Y, Marto JA, Coon JJ.
Year: 2008
Journal: J Am Soc Mass Spectrom
Volume: 19
Issue: 9
Pages: 1255-1262
Date : Sept, 2008
URL : http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6TH2-4SSG4WB-1&_user=1567505&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_version=1&_urlVersion=0&_userid=1567505&md5=f3e3
ae8a23d7f2e199a76463da113ddc

8.19. A comparison of relative quantification with isobaric tags on a subset of the murine hepatic proteome using electrospray ionization quadrupole time-of-flight and matrix-assisted laser desorption/ionization tandem time-of-flight.

Author: Scheri RC, Lee J, Curtis LR, Barofsky DF.
Year: 2008
Journal: Rapid Commun. Mass Spectrom.
Volume: 22
Issue: 20
Pages: 3137-3146
Date : Sep 16, 2008
URL: http://www3.interscience.wiley.com/journal/121405207/abstract

8.20. The proteome of rodent mesenteric lymph

Author: Mittal A, Middleditch M, Ruggiero K, Buchanan CM, Jullig M, Loveday B, Cooper GJ, Windsor JA, Phillips AR.
Year: 2008
Journal: Am. J. Physiol. Gastrointest Liver Physiol.
Volume: 295
Issue: 5
Pages: 895-903
Date : Nov, 2008
URL: http://ajpgi.physiology.org/cgi/reprint/ajpgi.90378.2008v1

9. mTRAQ® Reagents

9.1. Multiple Reaction Monitoring of mTRAQ-Labeled Peptides Enables Absolute Quantification of Endogenous Levels of a Potential Cancer Marker in Cancerous and Normal Endometrial Tissues

Author: Desouza LV, Taylor AM, Li W, Minkoff MS, Romaschin AD, Colgan TJ, Siu KW.
Year: 2008
Journal: J. Proteome Res.
Volume: 7
Issue: 8
Pages: 3525-3534
Date : Aug 1, 2008
URL: http://cancerres.aacrjournals.org/cgi/content/full/68/14/5540

9.2. mTRAQ-based quantification of potential endometrial carcinoma biomarkers from archived formalin-fixed paraffin-embedded tissues

Author: Desouza LV, Krakovska O, Darfler MM, Krizman DB, Romashin AD, Colgan TJ, Siu KW.
Year: 2010
Journal: Proteomics
Volume: [Epub ahead of print]
Issue:
Pages:
Date : July 19, 2010
URL: http://www3.interscience.wiley.com/journal/123585281/abstract?CRETRY=1&SRETRY=0

9.3. Quantitative Analysis of mTRAQ-labeled proteome using full MS scans

Author: Kang UB, Yeom J, Kim H, Lee C
Year: 2010
Journal: J. Proteome Res.
Volume: 9
Issue: 7
Pages: 3750-3758
Date : July 2, 2010
URL: http://pubs.acs.org/doi/abs/10.1021/pr9011014

9.4. Absolute Quantification of Potential Cancer Markers in Clinical Tissue Homogenates using Multiple Reaction Monitoring on a Hybrid Triple Quadrupole / Linear ion trap tandem mass spectrometer

Author: DeSouza LV, Romaschin AD, Colgan EJ, Siu KWM
Year: 2009
Journal: Anal Chem
Volume: 81
Issue: 9
Pages: 3462-3470
Date : May 1, 2009
URL: http://pubs.acs.org/doi/abs/10.1021/ac802726a

9.5. Stoichiometry Determination of th eMP1-p14 Scomplex using a Novel and Cost –Efficient Method to Produce an Equimolar mixtrue of standard peptides

Author: Holzmann J, Pichler P, Madalinski M, Kurzbauer R, Mechtler K
Year: 2009
Journal: Anal. Chem.
Volume: 81
Issue: 24
Pages: 10254-10261
Date : Dec 15, 2009
URL: http://pubs.acs.org/doi/abs/10.1021/ac902286m

10. Publication Summary by Application

Application	Reference
Biomarker Discovery	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.13, 1.14, 1.15, 1.16, 1.17, 1.18, 1.19, 1.20, 1.21, 1.22, 1.23, 1.24, 1.25, 1.26, 1.27, 1.28, 1.29, 1.30, 1.31, 1.32, 1.33, 1.34, 1.35, 1.36, 1.37, 1.38, 1.39. 1. 40, 1.41, 1.42, 5.14
Signaling/ Differential PTM Analysis	1.7, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 2.10, 2.11, 2.12, 2.13, 2.14, 2.15, 2.16, 2.17, 2.18, 2.19, 2.20, 2.21, 2.22, 2.23, 2.24, 2.25, 2.26, 2.27, 2.28, 2.29
Genomic proteomic correlation	1.4, 1.6, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 5.9
Time Course Analysis	1.9, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7
Bacterial Analysis	2.1, 5.1, 2.2, 5.2, 4.1, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.11, 5.12, 5.13, 5.14, 5.15, 5.16, 5.17, 5.18, 5.19, 5.20, 5.21, 8.6
Membrane / Sub-cellular Analysis	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 6.10, 6.11, 6.12, 6.13, 6.14
Lipids / Phospholipids	7.1, 7.2
Plant Biology	2.8, 8.1, 8.2, 8.3, 8.6
Stem Cells	3.3, 3.4, 1.21
iTRAQ™ reagent Methods	5.2, 5.16, 5.19, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 9.10, 9.11, 9.12, 9.13, 9.14, 9.15, 9.16, 9.17, 9.18, 9.19, 9.20

11. Publication Summary by Instrument

Instrument	Reference
MALDI TOF/TOF™ system	1.1, 1.3, 1.4, 1.9, 1.13, 1.14, 1.16, 1.24, 1.25, 1.26, 1.27, 1.29, 1.42, 2.9, 2.17, 2.18, 2.19, 2.23, 2.24, 3.4, 3.5, 4.1, 4.5, 4.6, 5.1, 5.4, 5.5, 5.6, 5.7, 5.16, 5.18, 6.1, 6.7, 6.13, 6.14, 9.1, 9.2, 9.3, 9.4, 9.5, 9.8, 9.9, 9.10, 9.12, 9.13, 9.14, 9.17
QSTAR® system	1.2, 1.5, 1.7, 1.8, 1.11, 1.12, 1.15, 1.17, 1.18, 1.19, 1.20, 1.21, 1.22, 1.25, 1.28, 1.30, 1.31, 1.32, 1.33, 1.35, 1.36, 1.37, 1.39, 1.40, 1.41, 2.3, 2.6, 2.7, 2.9, 2.10, 2.11, 2.13, 2.14, 2.15, 2.16, 2.20, 2.21, 2.24, 2.25, 2.26, 2.28, 2.29, 3.1, 3.3, 3.6, 3.7, 3.8, 3.9, 4.1, 4.2, 4.3, 4.6, 4.7, 5.2, 5.3, 5.8, 5.9, 5.11, 5.12, 5.13, 5.14, 5.15, 5.17, 5.19, 5.20, 5.21, 6.3, 6.4, 6.5, 6.6, 6.9, 6.10, 6.11, 6.12, 7.2, 8.1, 8.3, 8.4, 9.1, 9.7, 9.11, 9.16, 9.20
Q TRAP® system	2.2, 2.5, 2.8, 2.12, 2.14, 6.11, 7.1, 7.2, 9.15, 9.2, 9.4, 9.5
QTOF	1.34, 4.4, 5.10, 6.9, 8.2, 8.5, 8.6
LTQ (PQD)/OrbiTrap	2.22, 2.27, 6.8, 9.18, 9.19

Note: some papers are in more than one section.

Publication number: 1037010-01

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