Multiplexed Isobaric Tagging Reagents for Protein Expression Analysis

List of Key Publications

SCIEX 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 the over 1,000 scientific publications in which SCIEX iTRAQ reagents have been recognized and used to make breakthrough discoveries advancing 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://www.ncbi.nlm.nih.gov/pubmed/17425350

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://pubs.acs.org/doi/abs/10.1021/pr0700798?journalCode=jprobs

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://onlinelibrary.wiley.com/doi/10.1002/pmic.200700455/suppinfo

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://www.ncbi.nlm.nih.gov/pubmed/17914187

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

URL: http://www.ncbi.nlm.nih.gov/pubmed/17765022

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.ncbi.nlm.nih.gov/pubmed/18329368

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.ncbi.nlm.nih.gov/pubmed/18259946

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.ncbi.nlm.nih.gov/pubmed/18201447

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://journals.plos.org/plosone/article?id=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

URL: http://www.ncbi.nlm.nih.gov/pubmed/18617141

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://journals.plos.org/plosone/article?id=10.1371/journal.pone.0002750

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.ncbi.nlm.nih.gov/pubmed/18948973

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/content/4/9/1240.abstract

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/pubmed/16093434

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/content/5/2/337.short

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.ncbi.nlm.nih.gov/pubmed/17016520

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/content/104/14/5860.short?rss=1

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://www.ncbi.nlm.nih.gov/pubmed/17625814

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/content/early/2007/06/30/mcp.M600468-MCP200.full.pdf+html

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Author: Yin QY, de Groot PW, de Jong L, Klis FM, De Koster CG

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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/content/early/2008/08/04/mcp.M700575-MCP200.full.pdf+html

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://www.ncbi.nlm.nih.gov/pubmed/18654985

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/content/early/2005/02/16/jlr.M500014-JLR200.short

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: 118-28

URL: http://www.ncbi.nlm.nih.gov/pubmed/16384548

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/content/103/17/6518.abstract

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/content/early/2006/06/09/tpc.106.042861.short

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/content/144/3/1612.full

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://www.ncbi.nlm.nih.gov/pubmed/18452225

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/content/early/2008/07/16/pp.108.124545.short

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.ncbi.nlm.nih.gov/pubmed/18716313

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/content/early/2004/09/28/mcp.M400129-MCP200.short

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://www.ncbi.nlm.nih.gov/pubmed/15924362

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/doi/abs/10.1021/pr050405o

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://bfg.oxfordjournals.org/content/5/2/112.abstract

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://www.ncbi.nlm.nih.gov/pubmed/16800037

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/content/early/2006/03/30/jxb.erj168.short

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://www.ncbi.nlm.nih.gov/pubmed/17269738

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://www.ncbi.nlm.nih.gov/pubmed/17177251

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://pubs.acs.org/doi/abs/10.1021/pr0701052?journalCode=jprobs

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://onlinelibrary.wiley.com/doi/10.1002/pmic.200600782/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.ncbi.nlm.nih.gov/pubmed/18067510

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://www.ncbi.nlm.nih.gov/pmc/articles/PMC2062563/

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.ncbi.nlm.nih.gov/pubmed/17724578

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: 9

Pages: 5956-5969

Date: Feb 26, 2008

URL: http://www.proteomesci.com/content/6/1/9

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.ncbi.nlm.nih.gov/pubmed/18646790

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/article/pii/S0003269708002959

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.ncbi.nlm.nih.gov/pubmed/18489896

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.ncbi.nlm.nih.gov/pubmed/18620867

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://www.ncbi.nlm.nih.gov/pubmed/18798194

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/content/ajpgi/early/2008/09/04/ajpgi.90378.2008.full.pdf

8.21. Methods in Quantitative Proteomics: Setting iTRAQ on the Right Track

Author: Noirel J, Evans C, Salim M, Mukherjee J, Ow SY, Pandhal J, Pham T, Biggs CA, Wright, PC.

Year: 2011

Journal: Current Proteomics

Volume: 8

Issue: 1

Pages: 17-30

Date: Jan, 2011

URL: http://www.ingentaconnect.com/content/ben/cp/2011/00000008/00000001/art00003

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: Cancer Research

Volume: 68

Issue: 14

Pages: 5540-5545

Date: Aug 1, 2008

URL: http://cancerres.aacrjournals.org/content/68/14/5540.full.html

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: 10

Issue: 17

Pages: 3108-3116

Date: July 19, 2010

URL: http://www.ncbi.nlm.nih.gov/pubmed/20661955

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
QTRAP® 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.

Document number: RUO-MKT-20-2137-A

Headquarters
500 Old Connecticut Path | Framingham, MA 01701 USA
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