Peer reviewed publications acknowledging Agilent TL program funding
(publications from TL awardees or from researchers associated with TL awardee’s institution)

1. Enhanced Information Output From Shotgun Proteomics Data by Protein Quantification and Peptide Quality Control (PQPQ)

Authors: Forshed, Jenny, Johansson, Henrik J.; Pernemalm, Maria; Branca, Rui M. M.; Sandberg, A; Lehtio, Janne

MOLECULAR AND CELLULAR PROTEOMICS. 10.10.1074/mcp.M111.010264. 2011

2. Challenges and opportunities for structural DNA nanotechnology.

Authors: Pinheiro, Andre V ; Han, Dongran ; Shih, William M; Yan, Hao. (Ingber)

NATURE NANOTECHNOLOGY. 6: 763-772. 2011

3. Development of a sequence typing scheme for differentiation of Salmonella Enteritidis strains

Authors: Tankouo-Sandjong, B.; Kinde, Hailu; Wallace, I.

FEMS MICROBIOLOGY LETTERS. 331 (2): 165-175. 2012

4. Next-Generation Digital Information Storage in DNA

Authors: Church, George M.; Gao, Yuan; Kosuri, Sriram

5. Exploring signal-to-noise ratio and sensitivity in non-uniformly sampled multi-dimensional NMR spectra

Authors: Hyberts, Sven G.; Robson, Scott A.; Wagner, Gerhard


6. Pulse design for broadband correlation NMR spectroscopy by multi-rotating frames

Authors: Coote, P; Arthanari, H; Yu, TY; Natarajan, A; Wagner, G; Khaneja, N


7. Impact of macromolecular crowding on DNA replication

Author(s): Akabayov, B; Akabayov, SR; Lee, SJ; Wagner, G; Richardson, CC

NATURE COMMUNICATIONS. 4 10.1038/ncomms2620. 2013

8. Relative Impact of Incorporating Pharmacokinetics on Predicting In Vivo Hazard and Mode of Action from High-Throughput In Vitro Toxicity Assays

Authors: Wetmore, Barbara A.; Wambaugh, John F.; Ferguson, Stephen S. and Thomas, RS. (Arkin)

TOXICOLOGICAL SCIENCES. 132 (2): 327-346. 2013

9. Production of advanced biofuels in engineered E. coli

Authors: Wen, Miao; Bond-Watts, Brooks B.; Chang, Michelle C. Y. (Arkin)

CURRENT OPINION IN CHEMICAL BIOLOGY. 17 (3): 472-479. 2013
10. Molecular Crowding Enhanced ATPase Activity of the RNA Helicase eIF4A Correlates with Compaction of Its Quaternary Structure and Association with eIF4G

Authors: Akabayov, Sabine R.; Akabayov, Barak; Richardson, Charles C.; Wagner, Gerhard


11. DNA-Linked Enzyme-Coupled Assay for Probing Glucosyltransferase Specificity.

Authors: Sukovich, David J; Modavi, Cyrus; de Raad, Markus; Prince, Robin N; Anderson, J Christopher

ACS SYNTHETIC BIOLOGY. 4 (7): 833-841. 2013

12. Composability of regulatory sequences controlling transcription and translation in Escherichia coli

Authors: Kosuri, Sriram; Goodman, Daniel B.; Cambray, Guillaume; Mutalik, Vivek K.; Gao, Yuan; Arkin, Adam P.; Endy, Drew; Church, George M.

PNAS. 110 (34): 14024-14029. 2013

13. Heterologous Reconstitution of the Intact Geodin GeneCluster in Aspergillus nidulans through a Simple and Versatile PCR Based Approach*

Authors: Nielsen, Morten T.; Nielsen, Jakob; Anyaogu, Dianne C.; Holm, Dorte; Fog Nielsen, Kristian; Larsen, Thomas O.; Mortensen, Uffe H. (Frisvad).

PLOS ONE. 8 (8): 10.1371. 2013

14. Dispersive solid phase extraction combined with ion-pair ultra high-performance liquid chromatography tandem mass spectrometry for quantification of nucleotides in Lactococcus lactis

Authors: Magdenoska, Olivera; Martinussen, Jan; Thykaer, Jette; Fog Nielsen, Kristian. (Frisvad).

ANALYTICAL BIOCHEMISTRY. 440: 166-177. 2013
15. A Historical Account of Hoogsteen Base-Pairs in Duplex DNA (Invited review)

Authors: Evgenia N. Nikolova, Huiqing Zhou, Federico L. Gottardo, Heidi S. Alvey, Isaac J. Kimsey, Hashim M. Al-Hashimi

BIOPOLYMERS. 99 (12): 955-968. 2013

16. Talaromyces atroroseus, a New Species Efficiently Producing Industrially Relevant Red Pigments

Authors: Frisvad, Jens C.; Yilmaz, Neriman; Thrane, Ulf; et al.

PLOS ONE. 8 (12): Article Number e84102. 2013

17. Design, Implementation, and Multi-Site Evaluation of a System Suitability Protocol for the Quantitative Assessment of Instrument Performance in LC-MRM-MS


18. Probing the Limits of Genetic Recoding in Essential Genes

Authors: Lajoie, M. J.; Kosuri, S.; Mosberg, J. A.; Gregg, C.J.; Zhang, D.; Church, G.M.

SCIENCE. 342: 361-363. 2013

19. Causes and Effects of N-Terminal Codon Bias in Bacterial Genes

Authors: Goodman, D.B.; Church, G.M.; Kosuri, S.

SCIENCE. 342: 475-479. 2013
20. NMR studies of nucleic acid dynamics
Author: Hashim M. Al-Hashimi
J. of MAGNETIC RESONANCE. 237: 191-204. 2013

21. Talaromyces atroroseus, a New Species Efficiently Producing Industrially Relevant Red Pigments
Authors: Frisvad, Jens C.; Yilmaz, Neriman; Thrane, Ulf; Rasmussen, Kasper Bowig; Houbraken, Jos; Samson, Robert A.
PLOS ONE. 8 (12): 10.1371. 2013

22. Measurement and modeling of intrinsic transcription terminators
Authors: Cambray, Guillaume; Guimaraes, Joao C.; Mutalik, Vivek K.; et al. (Arkin).
NUCLEIC ACIDS RESEARCH. 41 (9): 5139-5148. 2013

23. Constructing de Novo Biosynthetic Pathways for Chemical Synthesis inside Living Cells
Authors: Weeks, Amy M; Chang, Michelle C Y. (Arkin).
BIOCHEMISTRY. 50 (24): 5404-5418. 2013

24. Composability of regulatory sequences controlling transcription and translation in Escherichia coli
Authors: Kosuri, Sriram; Goodman, Daniel B.; Cambray, Guillaume; et al. (Arkin).
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES. 110 (34): 14024-14029. 2013
25. Precise and reliable gene expression via standard transcription and translation initiation elements.

Authors: Mutalik, Vivek K; Guimaraes, Joao C; Cambray, Guillaume; Lam, Colin; Christoffersen, Marc Juul; Quynh-Anh, Mai; Tran, Andrew B; Paull, Morgan; Keasling, Jay D; Arkin, Adam P; Endy, Drew

NATURE METHODS. 10 (4): 354-358. 2013


Authors: Kuperstein, Inna; Cohen, David P A; Pook, Stuart; Viara, Eric; Calzone, Laurence; Barillot, Emmanuel; Zinovyev, Andrei

BMC SYSTEMS BIOLOGY. 7: Article number 100. 2013

27. Exploring bacterial epigenomics in the next-generation sequencing era: a new approach for an emerging

Authors: Chen, Poyin; Jeannotte, Richard; Weimer, Bart C

TRENDS IN MICROBIOLOGY. 22 (5): 292-300. 2014

28. Fusarium graminearum PKS14 is involved in orsellinic acid and orcinol Synthesis

Authors: Simon Hartung Jørgensen, Rasmus John Norman Frandsen, Kristian Fog Nielsen, Erik Lysøe, Teis Esben Sondergaard, Reinhard Wimmer, Henriette Giese, Jens Laurids Sørensen. (Frisvad).


29. A new broadband homonuclear mixing pulse for NMR with low applied power

Authors: Coote, Paul; Leigh, Kendra E.; Yu, Tsy-Yan; Khaneja, Navin; Wagner, Gerhard; Arthanari, Haribabu

JOURNAL OF CHEMICAL PHYSICS. 141 (2): Article Number 024201. 2014
30. Selective Methyl Labeling of Eukaryotic Membrane Proteins Using Cell-Free Expression

Authors: Linser, Rasmus; Gelev, Vladimir; Hagn, Franz; Arthanari, Haribabu; Hyberts, Sven G.; Wagner, Gerhard


31. Gastrointestinal Microbes Interact with Canine Adipose-Derived Mesenchymal Stem Cells In Vitro and Enhance Immunomodulatory Functions

Authors: Kol, Amir; Foutouhi, Soraya; Walker, Naomi J.; Kong, Nguyet T.; Weimer, Bart C.; Borjesson, Dori L.

STEM CELLS AND DEVELOPMENT. 23 (16): 1831-1843. 2014


Authors: Liu, L.; Yun, Z.; He, B.; and Jiang, G.

ANAL CHEM. 86: 8167–8175. 2014

33. Structure-Guided Design of Fluorescent S-Adenosylmethionine Analogs for a High-Throughput Screen to Target SAM-I Riboswitch RNAs

Authors: Hickey, Scott F.; Hammond, Ming C.

CHEMISTRY & BIOLOGY. 21 (3): 345-356. 2014

34. Identification and Accurate Size Characterization of Nanoparticles in Complex Media

Authors: Liu, L.; He, B; Liu, B.; Yun, Z.; Yan, X.; Long, Y. and Jiang, G. Angew.

CHEM INT ED. 53: 14476 –14479. 2014
35. Building the Connectivity Map of epigenetics: Chromatin profiling by quantitative targeted mass spectrometry

Authors: Amanda L. Creech, Jordan E. Taylor, Verena K. Maier, Xiaoyun Wua, Caitlin M. Feeney, Namrata D. Udeshi, Sally E. Peach, Jesse S. Boehm, Jeannie T. Lee, Steven A. Carr, Jacob D. Jaffe

METHODS. 72:57-64. 2015

36. Quantifying intracellular metabolites in yeast using a matrix with minimal interference from naturally occurring analytes

Authors: Magdenoska, Olivera; Knudsen, Peter Boldsen; Svenssen, Daniel Killerup; Nielsen, Kristian Fog; Nielsen, Kristian. (Frisvad).

ANALYTICAL BIOCHEMISTRY. 487: 17-26. 2015

37. Broadscale resolving power performance of a high precision uniform field ion mobility-mass spectrometer

Authors: May, J. C., Dodds, J. N., Kurulugama, R. T., Stafford, G. C., Fjeldsted, J. C., & McLean, J. A.

ANALYST. 14 (20). 2015

38. Ion Mobility-Mass Spectrometry: Time-Dispersive Instrumentation

Authors: May, Jody C.; McLean, John A.

ANALYTICAL CHEMISTRY, 87 (3): 1422-1436. 2015

39. An integrated targeted metabolomic platform for high-throughput metabolite profiling and automated data processing

Authors: Cai, Y., Weng, K., Guo, Y., Peng, J., & Zhu, Z. J. (Yuan)

METABOLOMICS, 11 (6): 1575-1586. 2015
40. A uniform field ion mobility study of melittin and implications of low-field mobility for resolving fine cross-sectional detail in peptide and protein experiments

Authors: May, Jody C; McLean, John A.

PROTEOMICS. 15(16): 2862-2871. 2015


Authors: Kuperstein, I; Bonnet, E; Nguyen, H A; Cohen, D; Viara, E; Grieco, L; Fourquet, S; Calzone, L; Russo, C; Kondratova, M; Dutreix, M; Barillot, E; Zinovyev, A.

ONCOGENESIS. 4: Article Number e160. 2015

42. A Method for Multiplex Gene Synthesis Employing Error Correction Based on Expression

Authors: Hsiau, Timothy H C; Sukovich, David; Elms, Phillip; Prince, Robin N; Stritmatter, Tobias; Ruan, Paul; Curry, Bo; Anderson, Paige; Sampson, Jeff; Anderson, J Christopher

PLOS ONE. 10(5): Article Number: e0126078. 2015

43. The shortest path is not the one you know: application of biological network resources in precision oncology research

Authors: Kuperstein, Inna; Grieco, Luca; Cohen, David P A; Thieffry, Denis; Zinovyev, Andrei; Barillot, Emmanuel

MUTAGENESIS. 30 (2): 191-204. 2015

44. NaviCell Web Service for network-based data visualization

Authors: Bonnet, Eric; Viara, Eric; Kuperstein, Inna; Calzone, Laurence; Cohen, David P A; Barillot, Emmanuel; Zinovyev, Andrei

NUCLEIC ACIDS RESEARCH. 43 (1): 560-565. 2015
45. Comparison among plasma, serum, and whole blood ethanol concentrations: Impact of storage conditions and collection tubes.
   Authors: Penetar, David M; McNeil, Jane F; Ryan, Elizabeth T; Lukas, Scott E.
   JOURNAL OF ANALYTICAL TOXICOLOGY. 32 (7): 505-510. 2015

46. Characterization of Alternaria strains from Argentinean blueberry, tomato, walnut and wheat
   Authors: Andersen, Birgitte ; Nielsen, Kristian F ; Fernandez Pinto, Virginia ; Patriarca, Andrea. (Frisvad).
   INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY. 196: 1-10. 2015

47. Extrolites of Aspergillus Fumigatus and Other Pathogenic Species in Aspergillus Fumigati.
   Authors: Frisvad, Jens C. and Thomas O. Larsen.
   FRONTIERS IN MICROBIOLOGY 6: Article Number 145. 2016

   Authors: Niu, Jing; Mark Arentshorst, P D; Nair, Ziyu Dai; Scott E. Baker; Jens C. Frisvad; Kristian F. Nielsen; Peter J. Punt and Arthur F. J. Ram.

49. H-1 NMR and GC-MS Based Metabolomics Reveal Defense and Detoxification Mechanism of Cucumber Plant under Nano-Cu Stress
   Authors: Zhao, Lijuan; Huang, Yuxiong; Hu, Jerry; Zhou, Hongjun; Adeleye, Adeyemi S; Keller, Arturo A
50. **Occurrence of Aspergillus section Flavi and section Nigri and aflatoxins in raw cashew kernels (Anacardium occidentale L.) from Benin**

Authors: Lamboni, Yendouban; Frisvad, Jens C; Hell, Kerstin; Linnemann, Anita R; Nout, Rob M J; Tamo, Manuele; Nielsen, Kristian F; van Boekel, Martinus A J S; Smid, Eddy J.

LWT-FOOD SCIENCE AND TECHNOLOGY 70: 71-77. 2016

51. **Reduced-representation Phosphosignatures Measured by Quantitative Targeted MS Capture Cellular States and Enable Large-scale Comparison of Drug-induced Phenotypes**

Authors: Abelin, Jennifer G; Patel, Jinal; Lu, Xiaodong; Feeney, Caitlin M; Fagbami, Lola; Creech, Amanda L; Hu, Roger; Lam, Daniel; Davison, Desiree; Pino, Lindsay; Qiao, Jana W; Kuhn, Eric; Officer, Adam; Li, Jianxue; Abbatiello, Susan; Subramanian, Aravind; Sidman, Richard; Snyder, Evan; Carr, Steven A; Jaffe, Jacob D


52. **Isolation of TDA-producing Phaeobacter strains from sea bass larval rearing units and their probiotic effect against pathogenic Vibrio spp. in Artemia cultures**

Authors: Grotkjaer, Torben; Bentzon-Tilia, Mikkel; D’Alvise, Paul; Dourala, Nancy; Nielsen, Kristian Fog; Gram, Lone. (Frisvad)


53. **Normalization and integration of large-scale metabolomics data using support vector regression**

Authors: Shen, Xiaotao; Gong, Xiaoyun; Cai, Yuping; Guo; Yuan, Tu; Jia, Li; Hao, Zhang; Tao; Wang, Jialin; Xue, Fuzhong; Zhu, Zheng Jiang. (Yuan)

METABOLOMICS 12 (5): Article Number 89. 2016
54. **Serum metabolomics for early diagnosis of esophageal squamous cell carcinoma by UHPLC-QTOF/MS.**

Authors: Wang, Jialin; Zhang, Tao; Shen, Xiaotao; et al. (Yuan).

METABOLOMICS. 12 (7): Article Number 116. 2016

55. **Stachybotrys mycotoxins: from culture extracts to dust samples**

Authors: Dosen, Ina; Andersen, Birgitte; Phippen, Christopher B W; Clausen, Geo; Nielsen, Kristian Fog. (Frisvad)

ANALYTICAL AND BIOANALYTICAL CHEMISTRY 408.20: 5513-5526. 2016

56. **Large-Scale Prediction of Collision Cross-Section Values for Metabolites in Ion Mobility-Mass Spectrometry**

Authors: Zhou, Zhiwei; Shen, Xiaotao; Tu, Jia; et al. (Yuan)


57. **Salmonella Degrades the Host Glycocalyx Leading to Altered Infection and Glycan Remodeling**

Arabyan, Narine; Park, Dayoung; Foutouhi, Soraya; et al. (Weimer).

SCIENTIFIC REPORTS. 6: Article Number 29525. 2016

58. **Sharing and community curation of mass spectrometry data with Global Natural Products Social Molecular Networking**

Authors: Wang, Mingxun; Carver, Jeremy J.; Phelan, Vanessa V.; et al. (Frisvad)

59. Interactions, Transformations, and Bioavailability of Nano-Copper Exposed to Root Exudates

Authors: Huang, Yuxiong; Zhao, Lijuan; Keller, Arturo A.

ENVIRONMENTAL SCIENCE & TECHNOLOGY 51(17): 9774-9783. 2017

60. Metabolomics Reveals Cu(OH)(2) Nanopesticide-Activated Anti-oxidative Pathways and Decreased Beneficial Antioxidants in Spinach Leaves.

Authors: Zhao, Lijuan; Huang, Yuxiong; Adeleye, Adeyemi S.; et al. (Keller).

ENVIRONMENTAL SCIENCE & TECHNOLOGY. 51 (17): 10184-10194. 2017

61. Response at Genetic, Metabolic, and Physiological Levels of Maize (Zea mays) Exposed to a Cu(OH)(2) Nanopesticide

Authors: Zhao, Lijuan; Hu, Qirui; Huang, Yuxiong; et al. (Keller)

ACS SUSTAINABLE CHEMISTRY & ENGINEERING.5 (9): 8294-8301. 2017

62. Activation of antioxidant and detoxification gene expression in cucumber plants exposed to a Cu(OH)(2) nanopesticide

Authors: Zhao, Lijuan; Hu, Qirui; Huang, Yuxiong; et al.(Keller)

ENVIRONMENTAL SCIENCE-NANO. 4 (8): 1750-1760. 2017

63. LipidCCS: Prediction of Collision Cross-Section Values for Lipids with High Precision To Support Ion Mobility-Mass Spectrometry-Based Lipidomics

Authors: Zhou, Zhiwei; Tu, Jia; Xiong, Xin; et al. (Yuan)

ANALYTICAL CHEMISTRY . 89 (17): 9559-9566. 2017
64. **A Dereplication and Bioguided Discovery Approach to Reveal New Compounds from a Marine-Derived Fungus Stilbella fimetaria**

Authors: Kildgaard, S; Subko, K; Phillips, E; Goidts, V; de la Cruz, M; Diaz, C; Gotfredsen, CH; Andersen, B; Frisvad, JC; Nielsen, KF; Larsen, TO

MARINE DRUGS. 15 (8). pii: E253. 2017

65. **Global analysis of biosynthetic gene clusters reveals vast potential of secondary metabolite production in Penicillium species**

Authors: Nielsen, Jens Christian; Grijseels, Sietske; Prigent, Sylvain; et al. (Frisvad).

NATURE MICROBIOLOGY. 2 (6): Article Number: 17044. 2017

66. **Comparative genomics reveals high biological diversity and specific adaptations in the industrially and medically important fungal genus Aspergillus**

Authors: de Vries, Ronald P.; Riley, Robert; Wiebenga, Ad; et al. (Frisvad)

GENOME BIOLOGY. 18: Article Number: 28. 2017

67. **Emerging Trends and Opportunities in Discrete-Frequency Infrared and Raman Spectroscopic Imaging**

Authors: Wrobel, Tomasz P.; Kole, Matthew R.; Bhargava, Rohit.

SPECTROSCOPY. S: 20-29. 2017

68. **BIM-Sim: Interactive Simulation of Broadband Imaging Using Mie Theory**

Authors: Berisha, Sebastian; van Dijk, Thomas; Bhargava, Rohit; et al.

FRONTIERS IN PHYSICS. 5: Article Number: 5. 2017
69. Mapping Solvation Environments in Porous Metal-Organic Frameworks with Infrared Chemical Imaging

Authors: Ghosh, Ayanjeet; Mukherjee, Prabuddha; Deb, Sanghamitra; et al. (Bhargava)

JOURNAL OF PHYSICAL CHEMISTRY LETTERS. 8 (21): 5325-5330. 2017

70. Common deregulated gene expression profiles and morphological changes in developing zebrafish larvae exposed to environmental-relevant high to low concentrations of glucocorticoids

Authors: Chen, Qiyu; Li, Caixia; Gong, Zhiyuan; et al. (Snyder)

CHEMOSPHERE. 172: 429-439. 2017

71. Concentrations of select dissolved trace elements and anthropogenic organic compounds in the Mississippi River and major tributaries during the summer of 2012 and 2013

Authors: Bussan, Derek D.; Ochs, Clifford A.; Jackson, Colin R.; et al. (Snyder)

ENVIRONMENTAL MONITORING AND ASSESSMENT. 189 (2): Article Number 73. 2017

72. Pre-ozonation for high recovery of nanofiltration (NF) membrane system: Membrane fouling reduction and trace organic compound attenuation

Authors: Park, Minkyu; Anumol, Tarun; Simon, Julien; et al. (Snyder)

JOURNAL OF MEMBRANE SCIENCE. 523: 255-263. 2017

73. Targeting sarcoma tumor-initiating cells through differentiation therapy

Authors: Han, Dan; Rodriguez-Bravo, Veronica; Charytonowicz, Elizabeth; et al. (Cordon-Cardo)

STEM CELL RESEARCH. 21: 117-123. 2017

74. The APOE epsilon 4 Allele Is Associated with Lower Selenium Levels in the Brain: Implications for Alzheimer’s Disease

Authors: Cardoso, Barbara R.; Hare, Dominic J.; Lind, Monica; et al. (McLean)

ACS CHEMICAL NEUROSCIENCE. 8 (7): 1459-1464. 2017
75. Biochemically-defined pools of amyloid-beta in sporadic Alzheimer's disease: correlation with amyloid
Authors: Roberts, Blaine R.; Lind, Monica; Wagen, Aaron Z.; et al. (McLean).
PET. BRAIN. 140: 1486-1498. 2017

76. Automation of PacBio SMRTbell NGS library preparation for bacterial genome sequencing
Authors: Nguyet Kong; Ng, Whitney; Thao, Kao; et al. (Weimer)
STANDARDS IN GENOMIC SCIENCES. 12. Article Number 27. 2017

77. Prebiotic oligosaccharides potentiate host protective responses against L. monocytogenes infection

78. Metabolomic network analysis of estrogen-stimulated MCF-7 cells: a comparison of overrepresentation analysis, quantitative enrichment analysis and pathway analysis versus metabolite network analysis
Authors: Maertens, Alexandra; Bouhifd, Mounir; Zhao, Liang; et al. (Hartung) ARChives of TOXICOLOGY. 91 (1): 217-230. 2017

79. Influence of nanoparticle doping on the colloidal stability and toxicity of copper oxide nanoparticles in synthetic and natural waters
Authors: Adeleye, Adeyemi S.; Pokhrel, Suman; Maedler, Lutz; et al. (Keller) WATER RESEARCH. 132: 12-22. 2018

80. Detection of nanoparticles in edible plant tissues exposed to nano-copper using single-particle ICP-MS
Authors: Keller, A.A. Huang, Y. Nelson, J.
JOURNAL OF NANOPARTICLE RESEARCH. 20 (4): Article number 101. 2018
81. **Cyclopiamines C and D: Epoxide Spiroindolinone Alkaloids from Penicillium sp CML 3020**
   
   Authors: Kildgaard, Sara; de Medeiros, Livia S.; Phillips, Emma; et al. (Frisvad)
   
   JOURNAL OF NATURAL PRODUCTS. 81 (4): 785-790. 2018

82. **A critical review of producers of small lactone mycotoxins: patulin, penicillic acid and moniliformin**
   
   Author: Frisvad, J. C.
   
   WORLD MYCOTOXIN JOURNAL. 11 (1): 73-100. 2018

83. **Development of Comprehensive Online Two-Dimensional Liquid Chromatography/Mass Spectrometry Using Hydrophilic Interaction and Reversed-Phase Separations for Rapid and Deep Profiling of Therapeutic Antibodies**
   
   Authors: Stoll, Dwight R.; Harmes, David C.; Staples, Gregory O.; et al.
   
   ANALYTICAL CHEMISTRY. 90 (9): 5923-5929. 2018

84. **Characterization of an antibody-drug conjugate by hydrophilic interaction chromatography coupled to mass spectrometry**
   
   Authors: D’Atri, Valentina; Fekete, Szabolcs; Stoll, Dwight; et al.
   
   JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. 1080: 37-41. 2018

85. **Selecting optimal features from Fourier transform infrared spectroscopy for discrete-frequency imaging**
   
   Authors: Mankar, Rupali; Walsh, Michael J.; Bhargava, Rohit; et al.
   
   ANALYST. 143 (5): 1147-1156. 2018

86. **An integrated approach with the zebrafish model for biomonitoring of municipal wastewater effluent and receiving waters**
   
   Authors: Li, Caixia; Chen, Qiyu; Zhang, Xiaoyan; et al. (Snyder)
   
   WATER RESEARCH. 131: 33-44. 2018
87. Automated flow injection method for the high precision determination of drift tube ion mobility collision cross sections
Authors: Nichols, Charles M.; May, Jody C.; Sherrod, Stacy D.; et al. (McLean)
ANALYST. 143 (7): 1556-1559. 2018

88. Conformational landscapes of ubiquitin, cytochrome c, and myoglobin: Uniform field ion mobility measurements in helium and nitrogen drift gas
Authors: May, Jody C.; Jurneczko, Ewa; Stow, Sarah M.; et al. (McLean)
INTERNATIONAL JOURNAL OF MASS SPECTROMETRY. 427: 79-90. 2018

89. An inhibitor of oxidative phosphorylation exploits cancer vulnerability
Authors: Molina, Jennifer R.; Sun, Yuting; Protopopova, Marina; Gera, Sonal; et al. (DePinho)