

Peer reviewed publications resulting from the “Agilent Thought Leader Award Program” funded projects

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

SCIENCE. 337 (6102): 1628-1628. **2012**

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**

JOURNAL OF BIOMOLECULAR NMR. 55 (2): 167-178. **2013**

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

JOURNAL OF BIOMOLECULAR NMR. 55 (3):291-302. 2013

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](https://doi.org/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

J. OF THE AMERICAN CHEMICAL SOCIETY. 135 (27): 10040-10047. 2013

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. Biofilm formation and antibiotic production in *Ruegeria mobilis* are influenced by intracellular concentrations of cyclic dimeric guanosinmonophosphate

Author(s): D'Alvise, Paul W.; Magdenoska, Olivera; Melchiorson, Jette; Nielsen, Kristian F., and Gram, Lone. (Frisvad).

ENVIRON MICROBIO. Epub ahead of print. **2013**

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

Authors: Abbatiello SE, Mani DR, Schilling B, Maclean B, Zimmerman LJ, Feng X, Cusack MP, Sedransk N, Hall SC, Addona T, Allen S, Dodder NG, Ghosh M, Held JM, Hedrick V, Inerowicz HD, Jackson A, Keshishian H, Kim JW, Lyssand JS, Riley CP, Rudnick P, Sadowski P, Shaddock K, Smith D, Tomazela D, Wahlander A, Waldemarson S, Whitwell CA, You J, Zhang S, Kinsinger CR, Mesri M, Rodriguez H, Borchers CH, Buck C, Fisher SJ, Gibson BW, Liebler D, Maccoss M, Neubert TA, Paulovich A, Regnier F, Skates SJ, Tempst P, Wang M, Carr SA.

MOL CELL PROTEOMICS. 12: 2623-39. **2013**

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 atrovireus*, a New Species Efficiently Producing Industrially Relevant Red Pigments

Authors: Frisvad, Jens C.; Yilmaz, Neriman; Thrane, Ulf; Rasmussen, Kasper Bowig; Houbraeken, 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**

26. NaviCell: a web-based environment for navigation, curation and maintenance of large molecular interaction maps

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).

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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

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY. 136 (32): 11308-11310. **2014**

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**

32. Efficient Interface for Online Coupling of Capillary Electrophoresis with Inductively Coupled Plasma–Mass Spectrometry and Its Application in Simultaneous Speciation Analysis of Arsenic and Selenium

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 F¹; 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

41. Atlas of Cancer Signalling Network: a systems biology resource for integrative analysis of cancer data with Google Maps.

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(3): 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**

48. Identification of a Classical Mutant in the Industrial Host Aspergillus Niger by Systems Genetics: LaeA is Required for Citric Acid Production and Regulates the Formation of some Secondary Metabolites.

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.

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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

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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.

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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 1 ; Kuhn, Eric ; Officer, Adam ; Li, Jianxue ; Abbatiello, Susan ; Subramanian, Aravind ; Sidman, Richard ; Snyder, Evan ; Carr, Steven A ; Jaffe, Jacob D

MOLECULAR & CELLULAR PROTEOMICS 15 (5): 1622-1641. 2016

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)

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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)

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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)

ANALYTICAL CHEMISTRY 88 (22): 11084-11091. 2016

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

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

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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)

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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).

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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)

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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. Genome-scale measurement of off-target activity using Cas9 toxicity in high-throughput screens**
Authors: Morgens, David W.; Wainberg, Michael; Boyle, Evan A. et al. (Snyder)
NATURE COMMUNICATIONS. 8: Article Number: 15178. 2017
- 71. 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)
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72. 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

73. 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)

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74. 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

75. 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)

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76. 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).

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77. Automation of PacBio SMRTbell NGS library preparation for bacterial genome sequencing

Authors: Nguyet Kong; Ng, Whitney; Thao, Kao; et al. (Weimer)

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78. Prebiotic oligosaccharides potentiate host protective responses against *L. monocytogenes* infection

Authors: Chen, P., Reiter, T., Huang, B., Kong, N., & Weimer, B. C. (2017)

Pathogens, 6 (4): 1-25. 2017

79. 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)

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80. 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

81. 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

82. Quantitative analysis of changes in amino acids levels for cucumber (*Cucumis sativus*) exposed to nano copper

Authors: Huang, Y.; Li, W.; Minakova, A.S.; Anumol, T.; Keller, A.A.

NANOIMPACT. 12: 9-17. 2018

83. 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

84. 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

85. 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

86. 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

87. 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

88. 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

89. 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

90. 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

91. Dynamic basis for dG· dT misincorporation via tautomerization and ionization

Authors: Kimsey, I.J.; Szymanski, E.S.; Zahurancik, W.J.; et al.; (Al-Hashimi)

NATURE. 554 (7691): 195-201. 2018

92. An inhibitor of oxidative phosphorylation exploits cancer vulnerability

Authors: Molina, J.R.; Sun, Y.; Protopopova, M.; et al. (DePinho)

NATURE MEDICINE. 24 (7): 1036-1046. 2018

93. Cyclopiamines C and D: Epoxide Spiroindolinone Alkaloids from Penicillium sp CML 3020

Authors: Kildgaard, S; de Medeiros, LS; Phillips, E; et al. (Frisvad)

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94. Italian cohort of patients affected by inflammatory bowel disease is characterised by variation in glycerophospholipid, free fatty acids and amino acid levels

Authors: Murgia, A.; Hinz, C.; Liggi, S.; et.al. (Griffin)

METABOLOMICS. 14 (10): art. no. 140. 2018

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