

# ***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

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. Talaromyces atroseus, 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**

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; 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**

**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, Tsyr-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 F<sup>1</sup>; **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; Svendsen, 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)

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**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

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

Authors: Hsiao, 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.

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**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.

G3-GENES GENOMES GENETICS 6: 193-204. **2016**

**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**

ENVIRONMENTAL SCIENCE & TECHNOLOGY. 50 (4): 2000-2010. **2016**

**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

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**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)

SYSTEMATIC AND APPLIED MICROBIOLOGY 39 (3): 180-188. **2016**

**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)

NATURE BIOTECHNOLOGY. 34 (8): 828-837. **2016**

**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**

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

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

**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)

Nature Medicine. Jun 11. doi: 10.1038/s41591-018-0052-4. [Epub ahead of print]. **2018**