

MONDAY POSTER LIST

Monday posters should be set up 8:00-8:30 am Monday morning and removed at 6:30 pm Monday evening.

Lightning Talks

Posters featured in the Monday *Lightning Session - Round I* and Wednesday *Technology and Tips & Tricks* are noted.

Biomarkers and Targeted MS Assays, Mon Poster 01-10

- Mon Poster 01 **Urinary Protein Changes in Walker 256 Tumor-Bearing Rats; Jianqiang Wu¹; Youhe Gao^{1, 2}; ¹Peking Union Medical College, Beijing, China; ²Beijing Normal University, Beijing, China Monday Lightning Session**
- Mon Poster 02 **Glycan “Nodes” as Cancer Markers: Clinical Performance in Muscle Invasive Bladder Cancer; Shadi Ferdosi¹; Erik Castle²; Thai Ho²; Melissa Stanton²; Garrick Wallstrom³; Chad R. Borges¹; ¹Biodesign Institute, Arizona State University, Tempe, AZ; ²Mayo Clinic, Phoenix, AZ; ³Department of Biomedical Informatics, Arizona State University, Tempe, AZ**
- Mon Poster 03 **Limited Tryptic Digestion Isotope Dilution Mass Spectrometry (LTD-IDMS) for Hemagglutinin Stability Assessment in Influenza Vaccines; Keith R Morgenstern¹; Tracie L Williams¹; Yingxia Wen²; Giuseppe Palladino²; Yuhong Xie²; Ethan C Settembre²; John R Barr¹; ¹Centers for Disease Control and Prevention, Atlanta, GA; ²Seqirus, Cambridge, MA**
- Mon Poster 04 **A Standard Assessment of Extracellular Vesicle Extraction Methods by Targeted Mass Spectrometry; Tingting Wang^{1, 2}; Kyle Anderson^{1, 2}; Illarion Turko^{1, 2}; ¹Institute for Bioscience & Biotechnology Research, Rockville, MD; ²National Institute of Standards and Technology, Rockville, MD**
- Mon Poster 05 **Development of a Multiplexed Assay for Oral Cancer Candidate Biomarkers Using Peptide Immunoaffinity Enrichment and Targeted Mass Spectrometry; Jau-Song Yu¹; Yung-Chin Hsiao¹; Lang-Ming Chi²; Kun-Yi Chien¹; Wei-Fan Chiang³; Yi-Ting Chen¹; Kai-Ping Chang²; Yu-Sun Chang¹; ¹Chang Gung University, Taoyuan, Taiwan; ²Chang Gung Memorial Hospital, Taoyuan, Taiwan; ³Chi-Mei Medical Center, Liouying, Taiwan**
- Mon Poster 06 **Multiplexed Kinase Biosensor Technology and SWATH-MS for Monitoring Chronic Myelogenous Leukemia (CML) Signaling; Tzu-Yi Yang; Laurie Parker; University of Minnesota, Minneapolis, MN**
- Mon Poster 07 **High Throughput and Highly Multiplexed 73 Proteins MRM Assay with Accuracy: Combination of Automated Sample Preparation and Scheduled MRM Analysis; Qin Fu; Mitra Mastali; Irene van den Broek; Vidya Venkatraman Venkatraman; Jennifer E Van Eyk; Cedars Sinai Medical Center, Los Angeles, CA**
- Mon Poster 08 **A Robust and Multiplexed ImmunoMRM Assay for Relative Quantitation of Key Phosphopeptides in the DNA Damage Response (DDR) Pathway; Si Mou¹; Lei Xiong¹; Jeffery Whiteaker²; Lei Zhao²; Yihan Li¹; Amanda Paulovich²; Hua-Fen Liu¹; Christie Hunter¹; ¹SCIEX, Redwood City, California; ²Fred Hutchinson Cancer Research Center, Seattle, WA**
- Mon Poster 09 **Improving Depth of Coverage of SWATH® Acquisition Using SWATH Xtend to Build Better Libraries; Christie Hunter¹; Sara Ahadi³; Jemma Wu²; Mark Molloy²; ¹SCIEX, Redwood City, California; ²APAF, Sydney, Australia; ³Stanford University, Stanford, CA**
- Mon Poster 10 **TargetedMSQC: an R Package for Quality Control of Chromatographic Peaks in Targeted Proteomics; Shadi Toghi Eshghi; Qingling Li; Paul Auger; Kristin Wildsmith; Veronica Anania; W. Rodney Mathews; Genentech, Inc., South San Francisco, CA**

Cancer Proteomics, Mon Poster 11-23

- Mon Poster 11 **A Kinetic Proteomics Approach to Identify Targets of Autophagy in Cancer and Recover Chemotherapeutic Effects; Monique Paré Speirs; Bradley Naylor; John C. Price; Brigham Young University, Provo, UT Monday Lightning Session**
- Mon Poster 12 **LinkedOmics : A Web-Based Platform for Cancer Multi-omics Data Integration and Comparison; Suhas Vasaikar¹; Peter Straub²; Jing Wang¹; Bing Zhang¹; ¹Baylor College of Medicine, Houston, Texas; ²Vanderbilt University, Nashville, TN Monday Lightning Session**
- Mon Poster 13 **Time-Resolved Quantitative Analysis of Cellular Signaling and Epigenetic Mechanisms During Epithelial-Mesenchymal Transition; Congcong Lu^{2, 3}; Simone Sidoli³; Zuofei Yuan³; Benjamin A. Garcia^{1, 2}; ¹Epigenetics Program, Philadelphia, PA; ²Department of Biochemistry and Molecular Biophysics, Philadelphia, PA; ³University of Pennsylvania, Philadelphia, PA**
- Mon Poster 14 **Unambiguously and Comprehensively Resolving Cancerous Adenocarcinoma and Stromal Proteomes and Their Interactive Signaling Without Cell Sorting in Patient-Derived Xenograft Models; Shichen Shen¹; Jun Li¹; Ninfa L. Straubinger¹; Xue Wang²; Michelle K. Greene⁴; Christopher J. Scott⁴; Wen Wee Ma³; Robert M. Straubinger¹; Jun Qu¹; ¹SUNY at Buffalo, Buffalo, NY; ²Roswell Park Cancer Institute, Buffalo, NY; ³Mayo Clinic, Rochester, MN; ⁴Queen's University, Belfast, Northern Ireland Monday Lightning Session**

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- Mon Poster 15 **A 3-D Proteome Atlas is an Important Component to the Cancer Moonshot;** Kat Tiemann; Carolina Garri; Ruth Alvarez; Sang Bok Lee; Jonathan Katz; [Kian Kani](#); *USC, Los Angeles, CA* [Monday Lightning Session](#)
- Mon Poster 16 **Analysis of Blood Plasma Suggests Tumor Re-Seeding may be Facilitated by Wound Creation During Radiotherapy Treatment of Breast Cancer Patients;** [Catherine Going](#); Marta Vilalta; Marjan Rafat; Melissa Jenkins; Jie Jane Chen; Kathleen Horst; Edward Graves; Sharon Pitteri; *Stanford University, Palo Alto, CA*
- Mon Poster 17 **Quantitative Glycoproteomic Profiling of Prostate Cancer Tissue Reveals Alterations in Glycosylation Patterns in Men with Recurrent Disease;** [Sarah M. Totten](#); Cheylene Tanimoto; Abel Bermudez; Amy Hembree; James D. Brooks; Sharon J. Pitteri; *Stanford University School of Medicine, Palo Alto, CA*
- Mon Poster 18 **Global Quantitative Phosphoproteomics to Identify Mechanisms of Resistance to the Third Generation EGFR TKIs in Human Lung Adenocarcinoma;** [Xu Zhang](#)¹; Tapan K. Maity¹; Karen E. Ross²; Stephanie C. Pitts¹; Cathy Wu³; Udayan Guha¹; ¹*Thoracic and GI Oncology Branch, CCR, NCI, NIH, Bethesda, MD*; ²*Georgetown University, Washington D.C., D.C.*; ³*University of Delaware, Newark, DE*
- Mon Poster 19 **Mapping the Surfaceome of Plasma Cells Reveals Novel Immunotherapy Targets for Multiple Myeloma;** [Nathan Schuld](#)¹; Ensaf Al-Hujaily²; Parameswaran Hari³; Jeffrey Medin^{1, 2}; Rebekah Gundry^{1, 4}; ¹*Department of Biochemistry, Milwaukee, WI*; ²*Department of Pediatrics, Milwaukee, WI*; ³*Dept. of Medicine/Hematology Oncology, Milwaukee, WI*; ⁴*Medical College of Wisconsin, Milwaukee, WI*
- Mon Poster 20 **Proteomic and lipidomic Analyzes Reveal Significant Lipid Metabolism Alteration in Colon Cancer Cells;** Lili Niu¹; [Tanxi Cai](#)²; Ying Zhang¹; Fuquan Yang²; ¹*Huazhong University of Science and Technology, Wuhan, China*; ²*Institute of Biophysics, CAS, Beijing, China*
- Mon Poster 21 **Method Development and Evaluation of the Protein Phosphatase 2 Phosphoproteome Using the Chip iFunnel QTOF Platform;** Paulos Chumala¹; [Vadiraja Bhat](#)²; Chelsea Cunningham¹; Brooke Thompson¹; Frederick Vizeacoumar¹; Franco Vizeacoumar¹; George Katselis¹; ¹*College of Medicine, University of Saskatchewan, Saskatoon, Canada*; ²*Agilent Technologies, Wilmington, DE*
- Mon Poster 22 **Multi-Omics Analysis for the Validation of Differential Transcripts in PAX8 Overexpressed MOSE Cells;** Melissa R. Pergande¹; Laura M. Rodgers¹; [Vadiraja Bhat](#)²; Carol Haney-Ball²; Joanna E. Burdette¹; Stephanie M. Cologna¹; ¹*Un of Illinois at Chicago, Chicago, IL*; ²*Agilent Technologies Inc, Santa Clara, CA*
- Mon Poster 23 **P-MartCancer-Interactive Online Software to Enable Biomaker Discovery from Shotgun Cancer Proteomic Datasets;** [Bobbie-Jo Webb-Robertson](#); Lisa Bramer; Jeffrey Jensen; Markus Kobold; Kelly Stratton; Amanda White; *Pacific Northwest National Laboratory, Richland, WA*

Cardiovascular Disease, Mon Poster 24-29

- Mon Poster 24 **Mass Spectrometry-based Proteomic and PTM Studies Provide Insight into the Molecular Mechanisms of Restenosis;** [Matthew Glover](#)¹; Qing Yu¹; Bowen Wang¹; Xudong Shi¹; Lian-Wang Guo¹; K. Craig Kent^{1, 2}; Lingjun Li¹; ¹*University of Wisconsin-Madison, Madison, WI*; ²*The Ohio State University, Columbus, OH* [Monday Lightning Session](#)
- Mon Poster 25 **Integrated Omics Analysis of Protein Isoform Switch Under Cardiac Hypertrophy;** [Maggie PY Lam](#)¹; Yi Xing²; Peipei Ping¹; ¹*NIH BD2K Center of Excellence, UCLA, Los Angeles, CA*; ²*Dept. of MIMG, UCLA, Los Angeles, CA*
- Mon Poster 26 **DDA vs DIA: Convergence of Increased Breadth, Reproducibility and Precision.;** [Ronald Holewinski](#)¹; Vidya Venkatraman¹; Sarah Parker¹; Georgia Saylor²; Chunhong Mao³; Grace Athas⁴; David Herrington²; Jennifer Van Eyk¹; ¹*Cedars-Sinai Medical Center, Los Angeles, CA*; ²*Wake Forest Baptist Medical Center, Winston-Salem, NC*; ³*Virginia Tech University, Blacksburg, VA*; ⁴*Louisiana State University School of Medicine, New Orleans, LA*
- Mon Poster 27 **Quantitative Analysis of Newly Synthesized Proteins During Maladaptive Cardiac Remodeling;** [Yuanhui Ma](#)¹; Daniel B. McClatchy¹; David Liem²; Dominic Ng²; Peipei Ping²; John R. Yates¹; ¹*The Scripps Research Institute, La Jolla, CA*; ²*University of California at Los Angeles, Los Angeles, CA* [Monday Lightning Session](#)
- Mon Poster 28 **Temporal Quantitative Phosphoproteomics of ADP Stimulation Reveals Novel Central Nodes in Platelet Activation and Inhibition;** Florian Beck¹; Joerg Geiger²; Stepan Gambaryan⁴; Fiorella A. Solari¹; Margherita Dell'Aica¹; Stefan Loroeh¹; Nadine Mattheij³; Igor Mindukshev⁴; Oliver Poetz⁵; Kerstin Jurk⁶; Julia M Burkhart¹; Christian Fufezan⁷; Johan W.M. Heemskerck³; Ulrich Walter⁶; Rene P. Zahedi¹; [Albert Sickmann](#)¹; ¹*ISAS, Dortmund, Germany*; ²*Interdisciplinary Bank of Biomaterials and Data, Wuerzburg, Germany*; ³*Department of Biochemistry, CARIM, Maastricht Univ, Maastricht, Netherlands*; ⁴*Sechenov Institute of Evolutionary Physiology, St. Petersburg, Russian Federation*; ⁵*NMI Natural and Medical Sciences Institute, Tuebingen, Germany*; ⁶*Center for Thrombosis and Hemostasis, Mainz, Germany*; ⁷*Institute for Biology and Biotechnology of Plants, Muenster, Germany*

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- Mon Poster 29 **Quantitative Phosphoproteomic and Proteomic Analysis of Swine Hearts Revealed Novel Insights into Myocardial Stunning;** Xue Wang¹; Xiaomeng Shen²; Rebecca Young³; Jun Li²; Shichen Shen²; John Canty³; Jun Qu²; ¹Roswell Park Cancer Institute, Buffalo, NY; ²SUNY at buffalo, Buffalo, NY; ³Clinical and Translational Research Center, Buffalo, NY Monday Lightning Session

Chromatin Dynamics, Mon Poster 30-32

- Mon Poster 30 **Proteomics for Systems Biology: Defining the Cross-Talk Between Signaling Pathways and Chromatin Modifications Occurring During Treatment of Acute Myeloid Leukemia;** Simone Sidoli; Pamela J. Sung; Katarzyna Kulej; Martin Carroll; Benjamin A. Garcia; *University of Pennsylvania, Philadelphia, PA* Monday Lightning Session
- Mon Poster 31 **Time-resolved Global and Chromatin Proteomics during Herpes Simplex Virus (HSV-1) Infection;** Katarzyna Kulej¹; Daphne D. Avgousti¹; Simone Sidoli²; Christin Herrmann¹; Ashley N. Della Fera¹; Eui Tae Kim¹; Benjamin A. Garcia²; Matthew D. Weitzman¹; ¹Children's Hospital of Philadelphia, Philadelphia, PA; ²University of Pennsylvania, Philadelphia, PA Monday Lightning Session
- Mon Poster 32 **Identification of Actin Arginine Methylation Site in Chromatin Remodeling Complexes Relevant to Transcriptional Regulation and Human Vascular Disease;** Prabodh Kapoor¹; Zhenan Liu²; Vinesh Vinayachandran³; Rohit Reja³; Chia-Fang Lee⁴; Ashutosh Kumar⁵; Jiyuan Chen⁶; Jing Xiao¹; Jianjun Shen¹; Bongsoo Park³; Michelle Gadush⁴; Maria Person⁴; Kathleen Trybus⁷; Kam Zhang⁵; Franklin Pugh³; Kristine Kamm²; Dianna Milewicz⁶; Xuetong Shen¹; ¹University of Texas M.D. Anderson Cancer Center, Smithville, TX; ²University of Texas Southwestern Medical Center, Dallas, TX; ³Pennsylvania State University, University Park, PA; ⁴University of Texas at Austin, Austin, TX; ⁵RIKEN Center for Life Science Technologies, Yokohama, Japan; ⁶UT Health Science Center at Houston, Houston, TX; ⁷University of Vermont, Burlington, VT

Disease and Protein-Protein Interactions and Proximity, Mon Poster 33

- Mon Poster 33 **Discovery of a Novel Interaction Between Apolipoprotein E and Interferon- γ (IFN γ) that can be Modulated by Oxidation of IFN γ ;** Erandi Kapuruge; Chad Borges; *Arizona State University, Tempe, Arizona*

Glycans and Vaccines, Mon Poster 34-36

- Mon Poster 34 **Combining SEC Separations with Isotope Dilution Mass Spectrometry for Improving the Quality of Influenza Vaccines.;** Jonathan Bundy; Wanda Santana; Yulanda Williamson; Tracie Williams; John Barr; *Centers for Disease Control, Atlanta, Georgia*
- Mon Poster 35 **Semi-Automated Methods in Skyline and New MS/MS Rules to Define and Assign Xylosylated N-Linked Glycans in Populus Trichocarpa;** Elizabeth S. Hecht¹; Philip Loziuk¹; Brian Pratt²; Brendan Maclean²; Mike Maccoss²; David Muddiman¹; ¹North Carolina State University, Raleigh, NC; ²University of Washington Genome Science, Seattle, WA Monday Lightning Session
- Mon Poster 36 **PEAKS AB: A Software Platform for LC-MS/MS Based Therapeutic Protein Characterization;** Baozhen Shan; Lin He; *Bioinformatics Solutions Inc, Waterloo, Canada*

Imaging, Mon Poster 37-39

- Mon Poster 37 **Advances in Multi-modal Mass Spectrometry Imaging for Biomedical Applications;** Roy Martin¹; James Langridge²; Emmanuelle Claude²; Philippa Hart²; Towers Mark²; Emrys Jones²; ¹Waters, Beverly, MA; ²Waters Corporation, Wilmslow, UK
- Mon Poster 38 **Relative and Absolute Quantification of Metabolites in Hen Ovarian Tissues using IR-MALDESI Mass Spectrometry Imaging;** Milad Nazari; Mark Bokhart; David Muddiman; *North Carolina State University, Raleigh, NC*
- Mon Poster 39 **Quantitative Drug Distribution Mapping in Tissues Using IR-MALDESI Mass Spectrometry Imaging;** Mark Bokhart¹; Elias Rosen²; Corbin Thompson²; Ken Garrard¹; Angela Kashuba²; David Muddiman¹; ¹NCSU, Raleigh, NC; ²UNC Eshelman School of Pharmacy, Chapel Hill, NC Monday Lightning Session

Neurological Diseases and Neuroproteomics, Mon Poster 40-47

- Mon Poster 40 **Probing Translational Regulation in Spinal Muscular Atrophy (SMA) Using Integrated Proteomics and Transcriptomics Approaches;** Amanda Guise¹; Shaojun Tang²; Ruchi Chauhan¹; Constantin van Outryve d'Ydewalle⁴; Hendrik Wesseling¹; Charlotte Sumner⁴; Martin Hemberg³; Hanno Steen¹; Judith Steen¹; ¹Boston Children's Hospital, Harvard Medical School, Boston, MA; ²Georgetown University, Washington, DC; ³Wellcome Trust Sanger Institute, Cambridge, UK; ⁴Johns Hopkins School of Medicine, Baltimore, MD Monday Lightning Session

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- Mon Poster 41 **Glycomics and Proteomics of Myelinated Versus Non-Myelinated Regions of Human Brain Tissue;** Manveen Sethi¹; Harry Pantazopoulos^{2, 3}; Sabina Berretta^{2, 3}; Joseph Zaia¹; ¹*Boston University School of Medicine, Boston, MA*; ²*Department of Psychiatry, Harvard Medical School, Boston, MA*; ³*Translational Neuroscience Laboratory, McLean Hosp, Belmont, MA* [Monday Lightning Session](#)
- Mon Poster 42 **Vascular Contributions of Plasma Lipoproteins to Alzheimer's Diseases;** Danni Li; Fangying Huang; *U of Minnesota, Minneapolis, MN* [Monday Lightning Session](#)
- Mon Poster 43 **Transcriptome and Proteomic Profiling of a Drosophila Seizure Model Reveals Glial Regulation of Key Synaptic Proteins;** Kevin Hope¹; Daniel Johnson³; Xiaoyue Jiang²; Andreas Huhmer²; Daniel Lopez-Ferrer²; Lawrence Reiter^{1, 4}; ¹*Department of Neurology, UTHSC, Memphis, TN*; ²*Thermo Fisher Scientific, San Jose, CA*; ³*Molecular Bioinformatics Core, UTHSC, Memphis, TN*; ⁴*Department of Anatomy and Neurobiology, UTHSC, Memphis, TN* [Monday Lightning Session](#)
- Mon Poster 44 **Protein Signatures Differentiate Cancer Comorbidity in ALS Patients;** Young Ah Goo¹; Kevin Murnan²; N. Polat³; Alissa Schunter¹; H. Fen²; D.B. Gursel²; H. Idrisoglu³; Paul Thomas¹; Pembe H. Ozdinler²; ¹*Proteomics Center of Excellence, Northwestern Univ, Chicago, IL*; ²*Department of Neurology, Northwestern University, Chicago, IL*; ³*Istanbul University Medical School, Istanbul, Turkey*
- Mon Poster 45 **Protein Expression and Phosphorylation Changes During Neuronal Differentiation Reveal Novel Maturity Markers;** Matthew Berberich¹; Steven Rodriguez²; Kartik Subramanian¹; Robert Everley¹; Peter Sorger¹; ¹*Harvard Medical School, Boston, MA*; ²*Massachusetts General Hospital, Boston, MA*
- Mon Poster 46 **Proteomics Studies in Synergistic Protection from Retinal Degeneration by Combined Stem Cell Therapies;** Dawn Z Chen^{1, 3}; Changqing Zhang²; Yang Gao¹; Bin Lu²; Sergey Girman²; Benjamin Bakondi²; Weston Spivia¹; Jennifer E. Van Eyk¹; Shaomei Wang^{2, 3}; ¹*Advanced Clinical Biosystems Research Institute, Los Angeles, CA*; ²*Board of Governors Regenerative Medicine Institute, Los Angeles, CA*; ³*David Geffen School of Medicine, UCLA, Los Angeles, CA* [Monday Lightning Session](#)
- Mon Poster 47 **Unraveling the Complexity of the Gut-Brain Axis N-Glycoproteome;** Mariana BarbozaGardner¹; Gege Xu²; Melanie Gareau¹; Helen Raybould¹; Carlito Lebrilla^{2, 3}; ¹*Department of Anatomy, Physiology & Cell Biology, UC Davis, CA*; ²*Department of Chemistry, UC Davis, CA*; ³*Department of Biochemistry, School of Medicine, UC Davis, California* [Monday Lightning Session](#)

New Technologies, Mon Poster 48

- Mon Poster 48 **Online 2D-NCFC-RP/RPLC System for Efficient and Comprehensive Proteomic Analyses;** Sang-Won Lee; Hangyeore Lee; Jeong Eun So; *Korea University, Seoul, Korea* [Monday Lightning Session](#)

Post-Translational Modifications, Mon Poster 49-57

- Mon Poster 49 **Proteome-Wide Acetylation Dynamics Revealed by Metabolic Labeling and Quantitative Proteomics;** Yekaterina Kori¹; Simone Sidoli¹; Zuo-Fei Yuan¹; Xiaolu Zhao²; Benjamin A. Garcia¹; ¹*University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania*; ²*Wuhan University, Wuhan, China* [Monday Lightning Session](#)
- Mon Poster 50 **A Novel Method of Quantifying Protein Methylation Utilizing SWATH-MS;** Aaron Robinson; Sarah Parker; Vidya Venkatraman; Ronald Holewinski; Shelly Lu; Jennifer Van Eyk; *Cedars Sinai Medical Center, Los Angeles, CA* [Monday Lightning Session](#)
- Mon Poster 51 **Post-Translational Crosstalk Networks Associated with EMT-Mediated Resistance to EGFR Inhibitors;** Guolin Zhang; Paul A Stewart; Bin Fang; Eric A Welsh; John M Koomen; Steven Eschrich; Eric B Haura; *H.Lee Moffitt Cancer Center & Research Institute, Tampa, FL*
- Mon Poster 52 **Phosphorylation Knowledge Networks Integrated with LINCS Phosphoproteomic and Drug-Target Data to Interpret Cancer Cell Responses to Kinase Inhibitors ;** Karen E Ross¹; Jake Jaffee²; Stephan Schurer³; Cathy H Wu⁴; ¹*Georgetown University Medical Center, Washington, DC*; ²*Broad Institute of Harvard and MIT, Cambridge, MA*; ³*University of Miami, Coral Gables, FL*; ⁴*University of Delaware, Newark, DE*
- Mon Poster 53 **Histone H3 Mutations Drive Aberrant Chromatin-Reader Interactions in Diffuse Intrinsic Pontine Glioma;** Dylan M. Marchione; Mariel Coradin; Simone Sidoli; Zuofei Yuan; Benjamin A. Garcia; *University of Pennsylvania School of Medicine, Philadelphia, PA* [Monday Lightning Session](#)
- Mon Poster 54 **Using Protein Modifications in Serum to Diagnose Patients with Rheumatoid Arthritis;** Stephen Ames; *Brigham Young University, Idaho Falls, ID*
- Mon Poster 55 **Reprogramming the SNO-Proteome in the Brain of the Shank3-KO Model of Autism Spectrum Disorder;** Haitham Amal¹; Vadhiraja Bhat²; John S Wishnok¹; Guoping Feng³; Steven R Tannenbaum^{1, 3}; ¹*Massachusetts Institute of Technology, Cambridge, MA*; ²*Agilent Technologies, Wilmington, DE*; ³*McGovern Institute for Brain Research, Cambridge, MA*

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Mon Poster 56 **Decoding Site-Specific Alteration of Sialo-glycoproteome in EGFR-Subtype of Non-Small Cell Lung Cancer;** Yi-Ju Chen; Yu-Hsien Lin; Ta-Chi Yen; Kay-Hooi Khoo; Yu-Ju Chen; *Academia Sinica, Taipei, Taiwan* **Wednesday Tips & Tricks**

Mon Poster 57 **Quantitative Phosphoproteomic Analysis Reveals System-wide Signaling Networks in Chronic Lymphocytic Leukemia (CLL) B cells;** Hsin-Yi Wu¹; Jung-Lin Wu¹; Shang-Ju Wu²; Kuo-I Lin¹; Yu-Ju Chen¹; ¹*Academia Sinica, Taipei, Taiwan*; ²*National Taiwan University Hospital, Taipei, Taiwan* **Wednesday Tips & Tricks**

Protein Quality Control, Mon Poster 58

Mon Poster 58 **Proteostasis Interactome Remodeling of Amyloidogenic Proteins Governs Improved ER Quality Control Decisions;** Lars Plate¹; Joseph C. Genereux²; R. Luke Wiseman¹; Jeffery W. Kelly¹; ¹*The Scripps Research Institute, La Jolla, CA*; ²*University of California, Riverside, Riverside, CA* **Monday Lightning Session**

Proteomics in Ageing, Mon Poster 59

Mon Poster 59 **Investigating the Mechanism of AGE-Mediated Cancellation of Calorie Restriction Benefits;** Richard Carson; Bradley Naylor; John Price; *Brigham Young University, Provo, UT* **Monday Lightning Session**

Top-Down Proteomics, Mon Poster 60-63

Mon Poster 60 **Two-dimensional Reversed Phase-Reversed Phase Liquid Chromatography for Top-Down Proteomics;** Zhe Wang; Hongyan Ma; Toni Woodard; Si Wu; *University of Oklahoma, Norman, OK* **Wednesday Tips & Tricks**

Mon Poster 61 **Profiling of Intact Proteins in the CSF of Alzheimer's Disease Patients: Revealing Specific Proteoform Biomarker Candidates;** Gary Kruppa¹; Jerome Vialaret²; Sylvan Lehmann²; Audrey Gabelle^{2, 3}; Pierre-Olivier Schmit⁴; Christophe Hirtz²; ¹*Bruker Daltonics Inc., Billerica, MA*; ²*Laboratoire de Biochimie...CHU Montpellier, Montpellier, France*; ³*Cent. Mémoire Ressources Recherche, CHU Montpellier, Montpellier, France*; ⁴*Bruker France, Wissembourg, France*

Mon Poster 62 **CE-MS-Based Profiling of BNP Proteoforms from Plasma in One Hour;** Koen Raedschelders; Shenyang Zhang; Jennifer Van Eyk; *Cedars-Sinai Medical Center, Los Angeles, CA* **Monday Lightning Session**

Mon Poster 63 **Development of an All-Recombinant Intact Protein Standard for LC MS Application Development and System Suitability Testing;** Rosa Viner²; Kay Opperman¹; Daniel Lopez Ferrer²; Helene Cardasis²; Viktorija Vitkovske³; Shane Bechler²; Lukas Taujenis³; Vikrant Gohil³; John Rogers¹; Egle Capkauske³; Kestutis Bargaila³; Agne Alminaitė³; Juozas Siurkus³; ¹*Thermo Fisher Scientific, Rockford, IL*; ²*Thermo Fisher Scientific, San Jose, Ca*; ³*Thermo Fisher Scientific, Vilnius, Lithuania*