

## TUESDAY POSTER LIST

Tuesday posters should be set up 8:00-8:30 am Tuesday morning and removed at 3:00 pm Tuesday afternoon.

### Lightning Talks

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

### Biochemical Pathway Elucidation, Tues Poster 01

Tues Poster 01 **Phosphoproteomics reveals potential crosstalk between mTORC2 and MAP kinases**; Samuel Entwisle<sup>1</sup>; Camila Martinez-Calejman<sup>2</sup>; David Guertin<sup>2</sup>; Judit Villen<sup>1</sup>; <sup>1</sup>University of Washington, Seattle, WA; <sup>2</sup>University of Massachusetts Medical Center, Worcester, MA **Tuesday Lightning Session**

### Biomarkers and Targeted MS Assays, Tues Poster 02-04

Tues Poster 02 **Exosomal EphA2 transmits chemoresistance and predicts pancreatic cancer patient responses to therapy**; Jia Fan<sup>1</sup>; Qian Wei<sup>2</sup>; Eugene J. Koay<sup>3</sup>; Yang Liu<sup>1, 2</sup>; Zhen Zhao<sup>4</sup>; Tony Y. Hu<sup>1, 2</sup>; <sup>1</sup>Arizona State University, Tempe, AZ; <sup>2</sup>Houston Methodist Research Institute, Houston, TX; <sup>3</sup>University of Texas M.D. Anderson Cancer Center, Houston, TX; <sup>4</sup>National Institutes of Health, Bethesda, MD **Tuesday Lightning Session**

Tues Poster 03 **Development of Protein Biomarkers for Effects of Radiation Exposure using Quantitative Mass Spectrometry**; Kate Liu; Elizabeth Singer; Whitaker Cohn; Julian Whitelegge; William McBride; Joseph Loo; UCLA, Los Angeles, CA **Tuesday Lightning Session**

Tues Poster 04 **A spin column-free permethylation procedure for glycan analysis**; Yueming Hu<sup>1, 2</sup>; Chad R. Borges<sup>1, 2</sup>; <sup>1</sup>Arizona State University, Tempe, AZ; <sup>2</sup>The Biodesign Institute, Arizona State University, Tempe, AZ **Tuesday Lightning Session**

### Chromatin Dynamics, Tues Poster 05-06

Tues Poster 05 **Influence of the gut microbiota on histone modifications in intestinal epithelial cells**; Peder J. Lund; Sarah A. Smith; Johayra Simithy; Zuo-Fei Yuan; Kevin Janssen; Gary D. Wu; Benjamin A. Garcia; University of Pennsylvania, Philadelphia, PA **Tuesday Lightning Session**

Tues Poster 06 **Histone H2A proteolysis during mouse embryonic stem cell differentiation**; Mariel Coradin<sup>1</sup>; Simone Sidoli<sup>1, 3</sup>; Kelly Karch<sup>1, 2</sup>; Benjamin A. Garcia<sup>1, 2</sup>; <sup>1</sup>Department of Biochemistry and Molecular Biophysics, Philadelphia, PA; <sup>2</sup>Epigenetics Program, Philadelphia, PA; <sup>3</sup>University of Pennsylvania School of Medicine, Philadelphia, PA **Tuesday Lightning Session**

### Clinical Proteomics, Tues Poster 08-10

Tues Poster 08 **Comparative proteomic analysis of the influence of gender and acid stimulation on normal human saliva using LC/MS/MS**; Xiaoping Xiao<sup>1</sup>; Yaoran Liu<sup>2</sup>; Wei Sun<sup>1</sup>; Qian Li<sup>2</sup>; <sup>1</sup>Chinese Academy of Medical Sciences, Beijing, China; <sup>2</sup>Peking Union Medical College hospital, Beijing, China **Tuesday Lightning Session**

Tues Poster 09 **Early detection in urinary proteome for the effective early treatment of bleomycin-induced pulmonary fibrosis in a rat model**; Jianqiang Wu<sup>1</sup>; Xundou Li<sup>1</sup>; Youhe Gao<sup>1, 2</sup>; <sup>1</sup>Peking Union Medical College, Beijing, China; <sup>2</sup>Beijing Normal University, Beijing, China **Tuesday Lightning Session**

Tues Poster 10 **A Standardized Method to Produce a Digested Yeast Protein Extract Reference Material for Mass Spectrometry**; Candice Johnson; Ashley Beasley Green; Karen Phinney; National Institute of Standards and Technology, Gaithersburg, MD

### Clinical Proteomics, Tues Poster 11-16

Tues Poster 11 **Quantitative interrogation of large mass spectrometry datasets using a flexible hierarchical organization scheme**; Phillip Seitzer<sup>1</sup>; Seth Just<sup>1</sup>; Susan Ludwigsen<sup>1</sup>; Caleb Emmons<sup>1</sup>; Brian Searle<sup>2</sup>; <sup>1</sup>Proteome Software, Portland, Oregon; <sup>2</sup>University of Washington, Seattle, WA

Tues Poster 12 **Linear B cell epitope prediction by using high throughput peptide microarrays**; Robayet Chowdhury<sup>1, 2</sup>; Taylor Brown<sup>1, 2</sup>; Neal Woodbury<sup>1, 2</sup>; <sup>1</sup>Innovations in Medicine, The Biodesign Institute, Tempe, Arizona (AZ); <sup>2</sup>Arizona State University, Tempe, AZ **Tuesday Lightning Session**

Tues Poster 13 **Methods for estimating false discovery rates in high-resolution peptide spectral library searches**; Zheng Zhang; Yuri Mirokhin; Dmitrii Tchekhovskoi; Sanford Markey; Stephen Stein; NIST, Gaithersburg, Maryland

Tues Poster 14 **A multi-level quality control workflow for MS-based proteomics using a complex biological standard**; Hossein Fazelinia; Lynn Spruce; Hua Ding; Steven Seeholzer; Children's Hospital of Philadelphia, Philadelphia, PA

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Tues Poster 15 **GiaPronto: A one-click graph visualization software for proteomics datasets;** Amber K. Weiner<sup>1,2</sup>; Simone Sidoli<sup>1</sup>; Sharon J. Diskin<sup>2</sup>; Benjamin A. Garcia<sup>1</sup>; <sup>1</sup>University of Pennsylvania School of Medicine, Philadelphia, PA; <sup>2</sup>Children's Hospital of Philadelphia, Philadelphia, PA **Tuesday Lightning Session**

Tues Poster 16 **The Hybrid Search: A Mass Spectral Library Search Method for Discovery of Modifications in Proteomics;** Meghan C. Burke; Yuri A. Mirokhin; Dmitrii V. Tchekhovskoi; Sanford P. Markey; Stephen E. Stein; Mass Spectrometry Data Center, NIST, Gaithersburg, MD **Tuesday Lightning Session**

### High Resolution Mass Spectrometry, Tues Poster 17

Tues Poster 17 **Applying DDA methods for global profiling: evaluating DDA acquisition parameters for exhaustive data mining and reproducibility;** Scott M. Peterman<sup>1</sup>; David Sarracino<sup>1</sup>; Shen Luan<sup>1</sup>; Amol Prakash<sup>2</sup>; Bradley J. Hart<sup>3</sup>; <sup>1</sup>Thermo Fisher Scientific, Cambridge, MA; <sup>2</sup>Optys Tech Corporation, SHREWSBURY, MA; <sup>3</sup>Thermo Scientific, Trabuco Canyon, CA

### High Resolution Mass Spectrometry, Tues Poster 18-22

Tues Poster 18 **RNA Mononucleoside Modification Detection, Quantitation, and Multiplexing by nanoLC-MS/MS;** Kevin A. Janssen; Ranran Wu; Benjamin A. Garcia; University of Pennsylvania School of Medicine, Philadelphia, PA **Tuesday Lightning Session**

Tues Poster 19 **MetaProt: A Cloud-based Platform to Analyze, Annotate, and Integrate Metabolomics Datasets with Proteomics Information;** Howard Choi<sup>1</sup>; Vincent Kyi<sup>1</sup>; Brian Bleakley<sup>1</sup>; Ding Wang<sup>1</sup>; Henning Hermjakob<sup>2</sup>; Peipei Ping<sup>1</sup>; <sup>1</sup>NIH BD2K Center at UCLA, Los Angeles, CA; <sup>2</sup>EMBL-EBI, Hinxton, UK **Tuesday Lightning Session**

Tues Poster 20 **Bladder Cancer Metabolomics Using the UPLC/MS-based AbsoluteIDQ p180 Kit;** Sri Ramya Donepudi<sup>1</sup>; Vasanta Putluri<sup>1</sup>; Feng Jin<sup>1</sup>; Suman Maity<sup>1</sup>; Vadiraj Bhat<sup>2</sup>; Arun Sreekumar<sup>1</sup>; Nagireddy Putluri<sup>1</sup>; <sup>1</sup>Baylor College of Medicine, Houston, TX; <sup>2</sup>Agilent Technologies, Santa Clara, CA

Tues Poster 21 **Extending an Integrated Reference Tandem Mass Spectral Library for Comprehensive Identification of Metabolites and Bioactive Peptides;** Xiaoyu Yang; Pedatsur Neta; Stephen Stein; NIST, Gaithersburg, MD

Tues Poster 22 **Racial Disparity in Bladder Cancer and Identification of Altered Metabolism in African American Compared to European Bladder Cancer;** Venkatrao Vantaku<sup>1</sup>; Tiffany Dorsey<sup>2</sup>; Vasanta Putluri<sup>1</sup>; Sri Ramya Donepudi<sup>1</sup>; Suman Maity<sup>1</sup>; Wei Tang<sup>2</sup>; Feng Jin<sup>1</sup>; Danthasinghe Waduge Badrajee Piyarathna<sup>1</sup>; Kimal Rajapakshe<sup>1</sup>; Shyam Kavuri<sup>1</sup>; Vadiraja Bhat<sup>3</sup>; Seth Lerner<sup>1</sup>; Yair Lotan<sup>4</sup>; Wei Liu<sup>5</sup>; Cristian Coarfa<sup>1</sup>; Arun Sreekumar<sup>1</sup>; Stefan Ambs<sup>2</sup>; Nagireddy Putluri<sup>1</sup>; <sup>1</sup>Baylor College of Medicine, Houston, Texas; <sup>2</sup>NIH/ACI, Bethesda, MD; <sup>3</sup>Agilent Technologies, Santa Clara, CA; <sup>4</sup>UTSouthwestern, Dallas, TX; <sup>5</sup>Agios Pharmaceuticals, Boston, MA

### Metaproteomics, Tues Poster 23

Tues Poster 23 **Mucosal microbiome and vaccine response in HIV-exposed uninfected African infants;** Suereta Fortuin; Cape Town University., Cape Town, South Africa

### New Technologies, Tues Poster 24-37

Tues Poster 24 **Global Identification of Functional Phosphorylation Sites in *Saccharomyces cerevisiae*;** Ian Smith; University Of Washington, Seattle, WA **Wednesday Tips & Tricks**

Tues Poster 25 **Investigations of kinase signaling in cancer metabolism with cell-active, kinase-specific biosensors;** Laura Marholz; University of Minnesota, Minneapolis, MN

Tues Poster 26 **Parallel accumulation - serial fragmentation (PASEF) on a novel trapped ion mobility spectrometry (TIMS) – QTOF instrument;** Scarlet Beck<sup>1</sup>; Heiner Koch<sup>1</sup>; Florian Meier<sup>1</sup>; Markus Lubeck<sup>2</sup>; Stephanie Kaspar-Schoenefeld<sup>2</sup>; Niels Goedecke<sup>2</sup>; Oliver Raether<sup>2</sup>; Juergen Cox<sup>1</sup>; Matthias Mann<sup>1</sup>; <sup>1</sup>Max Planck Institute of Biochemistry, Martinsried/Munich, Germany; <sup>2</sup>Bruker Daltonik GmbH, Bremen, Germany

Tues Poster 27 **A Single UHPLC System for both High Flow and Nano Flow LC-MS/MS: Application in Discovery and Targeted Proteomics;** Linfeng Wu<sup>1</sup>; Alex Zhu<sup>2</sup>; Paul Goodley<sup>1</sup>; Pat Perkins<sup>1</sup>; <sup>1</sup>Agilent Technologies, Santa Clara, CA; <sup>2</sup>Agilent Technologies, Wilmington, DE **Wednesday Tips & Tricks**

Tues Poster 28 **Time-Dependent Metabolomics in Systems Biology Context for Mechanism of Action Studies;** Akos Vertes<sup>1</sup>; Andrew Korte<sup>1</sup>; Hang Li<sup>1</sup>; Peter Nemes<sup>1</sup>; Lida Parvin<sup>1</sup>; Sylwia Stopka<sup>1</sup>; Sunil Hwang<sup>1</sup>; Ziad Sahab<sup>1</sup>; Deborah Bunin<sup>2</sup>; Merrill Knapp<sup>2</sup>; Andrew Poggio<sup>2</sup>; Carolyn Talcott<sup>2</sup>; Brian Davis<sup>3</sup>; Christine Morton<sup>3</sup>; Christopher Sevinsky<sup>3</sup>; Maria Zavodsky<sup>3</sup>; Nicholas Morris<sup>4</sup>; Matthew Powell<sup>4</sup>; <sup>1</sup>George Washington University, Washington, DC; <sup>2</sup>SRI International, Menlo Park, CA; <sup>3</sup>GE Global Research, Niskayuna, NY; <sup>4</sup>Protea Biosciences Inc., Morgantown, WV **Wednesday Tips & Tricks**

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- Tues Poster 29 **Reducing Your Coomassie Footprint: An environmentally friendly protein stain with sensitivity similar to SYPRO Ruby and Deep Purple gel stains;** Gary Smejkal; Donald Mousseau; *Focus Proteomics, Hudson, NH*
- Tues Poster 30 **Quantification of Protein Stability in Mammalian Tissues;** Dan B. McClatchy; Nam-Kyung Yu; John R. Yates; *The Scripps Research Institute, La Jolla, CA*
- Tues Poster 31 **Quantitative Bottom Up Proteomics Using a Novel Scanning Quadrupole Data Independent Acquisition (DIA) Method;** Jim Langridge<sup>1</sup>; Chris Hughes<sup>1</sup>; Lee Gethings<sup>1</sup>; Roy Martin<sup>2</sup>; Keith Richardson<sup>1</sup>; Johannes Vissers<sup>1</sup>; <sup>1</sup>*Waters Corporation, Wilmslow, UK*; <sup>2</sup>*Waters, Beverly, MA* **Wednesday Tips & Tricks**
- Tues Poster 32 **PCT-HD for Tissue Biopsy Samples: Comparison to a Standard Method.;** Vera Gross<sup>1</sup>; Peter Hains<sup>2</sup>; Keith Ashman<sup>3</sup>; Valentina Valova<sup>2</sup>; Alexander Lazarev<sup>1</sup>; <sup>1</sup>*Pressure BioSciences, Inc., South Easton, MA*; <sup>2</sup>*Children's Medical Research Institute, Westmead NSW, Australia*; <sup>3</sup>*Sciex, Framingham, MA* **Wednesday Tips & Tricks**
- Tues Poster 33 **Quantification of circulating *M. tuberculosis* antigen peptides allows rapid diagnosis of active disease and treatment monitoring;** Chang Liu; Jia Fan; Christopher Lyon; Ye Hu; *Arizona State University, Tempe, AZ* **Wednesday Tips & Tricks**
- Tues Poster 34 **A promising alternative to MS2-DIA: IonStar enables large-scale, accurate and extensive quantification with low missing data and false positives;** Jun Qu; Xiaomeng Shen; Shichen Shen; *SUNY-Buffalo, Buffalo, NY* **Wednesday Tips & Tricks**
- Tues Poster 35 **In-depth quantitation of changes in protein expression levels in complex samples on a Q-TOF instrument using Data-Independent Acquisition (DIA);** Stephanie Kaspar-Schoenefeld<sup>1</sup>; Thomas Kosinski<sup>1</sup>; Pierre-Olivier Schmit<sup>2</sup>; Na Parra<sup>3</sup>; <sup>1</sup>*Bruker Daltonik GmbH, Bremen, Germany*; <sup>2</sup>*Bruker Daltonique S.A., Wissembourg, France*; <sup>3</sup>*Bruker Daltonics, Billerica, MA* **Wednesday Tips & Tricks**
- Tues Poster 36 **Developing Novel Biosensors for Serine/Threonine Kinases Involved in Cancer;** Joel Zembles; *University Of Minnesota, Minneapolis, Minnesota*
- Tues Poster 37 **Ultrasensitive Microanalytical CE-nanoESI-MS for Bottom-up Proteomic Characterization of Mouse Hippocampal Neurons;** Sam Choi; Eric Corcoran; Marta Zamarbide; M. Chiara Manzini; Peter Nemes; *The George Washington University, Washington DC* **Wednesday Tips & Tricks**

### Pathogen Proteomics, Tues Poster 38-39

- Tues Poster 38 **Comprehensive proteomics analysis to identify differentially expressed proteins in cells with ASC speck formation;** I-Che Chung; Chih-Ching Wu; Yu-Sun Chang; *Chang Gung University, Taoyuan, Taiwan*
- Tues Poster 39 **Understanding mechanism of action of drug resistance reversal potential of Usnic Acid using proteomic profiling;** Sneha Sinha; *csir-cimap, Lucknow, India* **Tuesday Lightning Session**

### Post-Translational Modifications, Tues Poster 40-43

- Tues Poster 40 **Global proteomic analysis of lysine acetylation during zebrafish embryogenesis;** Sunjoon Kim; Oh Kwang Kwon; Sangkyu Lee; *BK21 Plus KNU Multi-Omics /Drug Research Team, daegu, South of Korea*
- Tues Poster 41 **Turnover profiles of histone post-translational modifications in a myogenic model using SILAC labeling, enzyme networks and trend clustering analysis;** Natarajan Bhanu; *University of Pennsylvania, Philadelphia, PA*
- Tues Poster 42 **Glycation of Human Serum Albumin Increases Ex Vivo in Poorly Handled Samples;** Joshua W. Jeffs<sup>1, 2</sup>; Chad R. Borges, PhD<sup>1, 2</sup>; Douglas S. Rehder<sup>2</sup>; <sup>1</sup>*Arizona State University, Tempe, AZ*; <sup>2</sup>*The Biodesign Institute, Arizona State University, Tempe, AZ*
- Tues Poster 43 **High throughput and accurate quantitation of phosphoproteomics for biological signaling;** Xiaoyue Jiang<sup>1</sup>; Ryan Bomgarden<sup>2</sup>; Rosa Viner<sup>1</sup>; Andreas Huhmer<sup>1</sup>; <sup>1</sup>*Thermo Fisher Scientific, San Jose, CA*; <sup>2</sup>*Thermo Fisher Scientific, Rockford, IL*

### Precision Medicine, Tues Poster 44-46

- Tues Poster 44 **Fast Second Dimension microflow LC for High-Throughput Deep Proteome Coverage;** Randy Arnold<sup>1</sup>; Nick Morrice<sup>2</sup>; Joerg Dojahn<sup>3</sup>; Christie Hunter<sup>1</sup>; <sup>1</sup>*SCIEX, Redwood City, CA*; <sup>2</sup>*SCIEX, Warrington, UK*; <sup>3</sup>*SCIEX, Darmstadt, Germany*
- Tues Poster 45 **Profiling Biochemical Individuality: Human Personal Omics Profiling (hPOP);** Sara Ahadi<sup>1</sup>; Hannes Rost<sup>1</sup>; Christie Hunter<sup>2</sup>; Liang Liang<sup>1</sup>; Shannon Rego<sup>1</sup>; Orit Dagan-Rosenfeld<sup>1</sup>; Denis Salins<sup>1</sup>; Mike Snyder<sup>1</sup>; <sup>1</sup>*Stanford University, Stanford, CA*; <sup>2</sup>*Sciex, Redwood City, CA* **Tuesday Lightning Session**
- Tues Poster 46 **Evidence of Human Antagonistic Auto-antibodies as a Mechanism of Insulin Resistance;** Andrew Lipchik; Anil Narasimha; Michael Snyder; *Stanford University, Stanford, CA* **Tuesday Lightning Session**

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### Protein Quality Control, Tues Poster 47-48

- Tues Poster 47 **Selection and validation of endogenous retention time standards and quality control peptides for plasma proteomics study;** Shenyan Zhang; Vidya Venkatraman; Qin Fu; Ronald Holewinski; Mitra Mastali; Jennifer Van Eyk; *Cedars Sinai Medical Center, Los Angeles, CA* **Tuesday Lightning Session**
- Tues Poster 48 **Ex Vivo Protein Oxidation as a Metric of Blood Plasma/Serum Integrity;** Chad R. Borges; Joshua Jeffs; Shadi Ferdosi; *Arizona State University, Tempe, AZ* **Wednesday Tips & Tricks**

### Proteoform Biology, Tues Poster 49-50

- Tues Poster 49 **Elucidating the Biological Implications of Aluminum Binding to Osteocalcin;** Stephanie Thibert<sup>1,2</sup>; Olga Trencheska<sup>1</sup>; Mario Kratz<sup>3</sup>; Ian de Boer<sup>4</sup>; Mian Yang<sup>1</sup>; Richard Hervig<sup>5</sup>; Peter Williams<sup>2</sup>; Joshua Jeffs<sup>1,2</sup>; Chad Borges<sup>1,2</sup>; <sup>1</sup>*Biodesign Institute, Arizona State University, Tempe, AZ*; <sup>2</sup>*School of Molecular Sciences, ASU, Tempe, AZ*; <sup>3</sup>*Fred Hutchinson Cancer Research Center, Seattle, WA*; <sup>4</sup>*University of Washington, Seattle, WA*; <sup>5</sup>*School of Earth & Space Exploration, ASU, Tempe, AZ* **Tuesday Lightning Session**
- Tues Poster 50 **Novel Algorithm for Quantifying Proteoforms of Tropomyosin;** Amol Prakash<sup>1</sup>; Irina Tchernyshyov<sup>2</sup>; Irene van den Broek<sup>2</sup>; Vidya Venkatraman<sup>2</sup>; Scott Peterman<sup>3</sup>; Jennifer Van Eyk<sup>2</sup>; <sup>1</sup>*Optys Tech Corporation, Shrewsbury, MA*; <sup>2</sup>*Cedars Sinai Medical Center, Los Angeles, CA*; <sup>3</sup>*Thermo Scientific BRIMS, Cambridge, MA*

### Proteogenomics, Tues Poster 51-57

- Tues Poster 51 **Temporal Analysis of Proteome and Transcriptome in Differentiating Human Pancreatic Endocrine Cells identifies Developmentally Regulated Protein Networks.;** Ertugrul Cansizoglu<sup>1</sup>; Quinn P. Peterson<sup>2</sup>; Shaojun Tang<sup>3</sup>; Judith Steen<sup>1</sup>; Hanno Steen<sup>1</sup>; <sup>1</sup>*Harvard Medical School / BCH, Boston, MA*; <sup>2</sup>*Harvard Department of Stem Cell and Regenerative B, Cambridge, MA*; <sup>3</sup>*Georgetown University Medical Center, Washington, DC*
- Tues Poster 52 **Integrative proteogenomic characterization of colorectal cancer cell lines and primary tumors;** Jing Wang<sup>1</sup>; Dmitri Mouradov<sup>2</sup>; Xiaojing Wang<sup>1</sup>; Robert Jorissen<sup>2</sup>; Matthew Chambers<sup>8</sup>; Lisa Zimmerman<sup>8</sup>; Suhas Vasaiakar<sup>1</sup>; Christopher Love<sup>2</sup>; Shan Li<sup>2</sup>; Kym Lowes<sup>2</sup>; Helene Jousset<sup>2</sup>; Janet Weinstock<sup>2</sup>; Christopher Yau<sup>4</sup>; John Mariadason<sup>5,6</sup>; Zhiao Shi<sup>1</sup>; Yuguan Ban<sup>7</sup>; Xi Chen<sup>7</sup>; Robert Coffey<sup>8,9</sup>; Robert Slebos<sup>10</sup>; Antony Burgess<sup>2,3</sup>; Daniel Liebler<sup>8</sup>; Bing Zhang<sup>1</sup>; Oliver Sieber<sup>2,3</sup>; <sup>1</sup>*Baylor College of Medicine, Houston, TX*; <sup>2</sup>*The Walter and Eliza Hall Institute of Medial Rese, Parkville, Australia*; <sup>3</sup>*The University of Melbourne, Parkville, Australia*; <sup>4</sup>*University of Oxford, Oxford, United Kingdom*; <sup>5</sup>*Olivia Newton-John Cancer Research Institute, Heidelberg, Australia*; <sup>6</sup>*La Trobe University School of Cancer Medicine, Melbourne, Australia*; <sup>7</sup>*University of Miami Miller School of Medicine, Miami, FL*; <sup>8</sup>*Vanderbilt University School of Medicine, Nashville, TN*; <sup>9</sup>*Veterans Affairs Medical Center, Nashville, TN*; <sup>10</sup>*Moffitt Cancer Center, Tampa, FL* **Tuesday Lightning Session**
- Tues Poster 53 **Validation of Tumor Proteogenomic Annotations;** Anindya Bhattacharya<sup>1,2</sup>; Vineet Bafna<sup>1,2</sup>; <sup>1</sup>*UC San Diego, La Jolla, CA*; <sup>2</sup>*UC San Diego, La Jolla, CA* **Tuesday Lightning Session**
- Tues Poster 54 **Proteogenomics: in silico analysis to investigate the low discovery rate of variant peptides in shotgun proteomics;** Tung-Shing Lih<sup>1,2</sup>; Wai-Kok Choong<sup>1,2</sup>; ChiTing Lai<sup>2,3</sup>; Chia-Li Han<sup>4</sup>; Yu-Ju Chen<sup>2</sup>; Ting-Yi Sung<sup>1</sup>; <sup>1</sup>*Institute of Information Science, Academia Sinica, Taipei, Taiwan*; <sup>2</sup>*Institute of Chemistry, Academia Sinica, Taipei, Taiwan*; <sup>3</sup>*GSB Degree Program, National Taiwan University, Taipei, Taiwan*; <sup>4</sup>*School of Pharmacy, Taipei Medical University, Taipei, Taiwan*
- Tues Poster 55 **Expression profiling of miRNA, mRNA and protein cargo of myeloid derived suppressor cells and their exosomes;** Catherine Fenselau<sup>1</sup>; Lucia Geis-Asteggiante<sup>1</sup>; Ashton Belew<sup>1</sup>; Nathan Edwards<sup>2</sup>; Suzanne Ostrand-Rosenberg<sup>3</sup>; Najib El-Sayed<sup>1</sup>; <sup>1</sup>*University of Maryland, College Park, MD*; <sup>2</sup>*Georgetown University Medical Center, Washington, DC*; <sup>3</sup>*University of Maryland Baltimore County, Baltimore, MD*
- Tues Poster 56 **Proteogenomic Characterization of Drug Resistance in the K562 CML Cell line;** Vinh Nguyen; Laurie Parker; *University of Minnesota, Minneapolis, MN*
- Tues Poster 57 **proBAMsuite, a bioinformatics framework for genome-based representation and analysis of proteomics data;** Xiaojing Wang; *Baylor College of Medicine, Houston, TX* **Tuesday Lightning Session**

### Proteomics in Ageing, Tues Poster 58-61

- Tues Poster 58 **Analysis of the Effects of Dietary Signals on Protein Homeostasis;** Bradley Naylor; Richard Carson; Monique Speirs; John Price; *Brigham Young University, Provo, UT*
- Tues Poster 59 **Characterization of Cell-Surface, Exosomal, and Secreted Proteins of Senescent Human Fibroblasts by DIA/SWATH;** Nathan Basisty; Judy Campisi; Bradford Gibson; Birgit Schilling; *Buck Institute for Research on Aging, Novato, CA*

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Tues Poster 60 **Proteomic and metabolic characterization of oxidative stress responses using a stem-cell derived multi-tissue disease model of Age-related Macular Degeneration;** Jesse G. Meyer<sup>1</sup>; Thelma Y. Garcia<sup>1</sup>; Birgit Schilling<sup>1</sup>; Arvind Ramanathan<sup>1</sup>; Deepak Lamba<sup>1,2</sup>; Bradford Gibson<sup>1,3</sup>; <sup>1</sup>*Buck Institute for Research on Aging, Novato, CA*; <sup>2</sup>*University of Washington, Seattle, WA*; <sup>3</sup>*Amgen, Thousand Oaks, CA*

Tues Poster 61 **Monitoring Riboprotein Turnover Kinetics in vivo through Stable Heavy Isotope Labeling.;** Nathan Keyes; Richard Carson; Ryne Peters; Bradley Naylor; John Price; *Brigham Young University, Provo, Utah*

<b>Proteomics in Drug Development, Tues Poster 62-63</b>
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Tues Poster 62 **TargetSeeker-MS: A Bayesian Inference Approach for Drug Target Discovery using Protein Fractionation Coupled to Mass Spectrometry;** Mathieu Lavallée-Adam<sup>1, 2</sup>; Jolene Diedrich<sup>1, 3</sup>; Alexander Pelletier<sup>1</sup>; William Low<sup>3</sup>; Antonio Pinto<sup>3</sup>; Salvador Martínez-Bartolomé<sup>1</sup>; Michael Petrascheck<sup>1</sup>; James Moresco<sup>1, 3</sup>; John R. Yates<sup>1</sup>; <sup>1</sup>*The Scripps Research Institute, La Jolla, CA*; <sup>2</sup>*University of Ottawa, Ottawa, Canada*; <sup>3</sup>*Salk Institute for Biological Studies, La Jolla, CA* **Tuesday Lightning Session**

Tues Poster 63 **Identification of FMS-like tyrosine kinase 3 (FLT3) substrates using KALIP;** Minervo Perez; *University of Minnesota, Minneapolis, MN* **Tuesday Lightning Session**