Realizing the Promise of Reverse Phase Protein Arrays for Clinical, Translational, and Basic Research: A Workshop Report
The RPPA (Reverse Phase Protein Array) Society
Rehan Akbani, Karl-Friedrich Becker, Neil Carragher, Ted Goldstein, Leanne de Koning, Ulrike Korf, Lance Liotta, Gordon B. Mills, Satoshi S. Nishizuka, Michael Pawlak, Emanuel F. Petricoin III, Harvey B. Pollard, Bryan Serrels, and Jingchun Zhu

Proteomic Analysis of the Epidermal Growth Factor Receptor (EGFR) Interactome and Post-translational Modifications Associated with Receptor Endocytosis in Response to EGF and Stress
Jiefei Tong, Paul Taylor, and Michael F. Moran

Identification of Small Ubiquitin-like Modifier Substrates with Diverse Functions Using the Xenopus Egg Extract System
Li Ma, Aaron Aslanian, Huaiyu Sun, Mingji Jin, Yu Shi, John R. Yates III, and Tony Hunter

The Intraviral Protein Interaction Network of Hepatitis C Virus
Nicole Hagen, Karen Bayer, Kathrin Rösch, and Michael Schindler

Ischemia in Tumors Induces Early and Sustained Phosphorylation Changes in Stress Kinase Pathways but Does Not Affect Global Protein Levels
Philipp Mertins, Feng Yang, Tao Liu, D. R. Mani, Vladislav A. Petyuk, Michael A. Gillette, Karl R. Clauser, Jana W. Qiao, Marina A. Gritsenko, Ronald J. Moore, Douglas A. Levine, Reid Townsend, Petra Erdmann-Gilmore, Jacqueline E. Snider, Sherri R. Davies, Kelly V. Ruggles, David Fenyo, R. Thomas Kitchens, Shunqiang Li, Narciso Olvera, Fanny Dao, Henry Rodriguez, Daniel W. Chan, Daniel Liebler, Forest White, Karin D. Rodland, Gordon B. Mills, Richard D. Smith, Amanda G. Paulovich, Matthew Ellis, and Steven A. Carr

Enhanced Prediction of Src Homology 2 (SH2) Domain Binding Potentials Using a Fluorescence Polarization-derived c-Met, c-Kit, ErbB, and Androgen Receptor Interactome
Kin K. Leung, Ronald J. Hause, Jr., John L. Barking, Mark F. Ciaccio, Chih-Pin Chuu, and Richard B. Jones

Modulation of the Chromatin Phosphoproteome by the Haspin Protein Kinase
Alessio Maiolica, Maria de Medina-Redondo, Erwin M. Schoof, Apirat Chaikud, Fabrizio Villa, Marco Gatti, Siva Jeganathan, Hua Jane Lou, Karel Nový, Simon Hauri, Umut H. Toprak, Franz Herzog, Patrick Meraldi, Lorenza Penengo, Benjamin E. Turk, Stefan Knapp, Rune Linding, and Ruedi Aebersold

On the cover: Top: Taming the Eye of the beast. Melanoma cells were treated and stained with acridine orange to reveal heterogeneity in response. Middle: LC-MRM was performed using HSP90 client proteins as markers of response after treatment. Proteins that increased in expression are shown red and proteins that decreased in expression from treatment are shown green to reveal adaptive resistance mechanisms. Bottom: Information from LC-MRM was interpreted to design more effective combinatorial treatment strategies, which were validated in 3D organotypic culture. For details, see the article by Vito W. Rebecca et al., pages 1844–1854.
Proteomic Analysis of Altered Extracellular Matrix Turnover in Bleomycin-induced Pulmonary Fibrosis
Martin L. Decaris, Michelle Gatmaitan, Simplicia FlorCruz, Flora Luo, Kelvin Li, William E. Holmes, Marc K. Hellerstein, Scott M. Turner, and Claire L. Emson

Glycoproteomic Analysis of Prostate Cancer Tissues by SWATH Mass Spectrometry Discovers N-acylethanolamine Acid Amidase and Protein Tyrosine Kinase 7 as Signatures for Tumor Aggressiveness
Yansheng Liu, Jing Chen, Atul Sethi, Qing K. Li, Lijun Chen, Ben Collins, Ludovic C. J. Gillet, Bernd Wollscheid, Hui Zhang, and Ruedi Aebersold

Proteomic Analysis of Intact Flagella of Procyclic Trypanosoma brucei Cells Identifies Novel Flagellar Proteins with Unique Sub-localization and Dynamics
Ines Subota, Daria Julkowska, Laetitia Vincensini, Nele Reeg, Johanna Buisson, Thierry Blisnick, Diego Huet, Sylvie Perrot, Julien Santi-Rocca, Magalie Duchateau, Véronique Hourdel, Jean-Claude Rousseau, Nadège Cayet, Abdelkader Namane, Julia Chamot-Rooke, and Philippe Bastin

Regulation Dynamics of Leishmania Differentiation: Deconvoluting Signals and Identifying Phosphorylation Trends
Polina Tsigankov, Pier Federico Gherardini, Manuela Helmer-Citterich, Gerald F. Späth, Peter J. Myler, and Dan Zilberstein

Stable Isotope Labeling with Amino Acids in Cell Culture (SILAC)-Based Strategy for Proteome-Wide Thermodynamic Analysis of Protein-Ligand Binding Interactions
Duc T. Tran, Jagat Adhikari, and Michael C. Fitzgerald

Ferritin Heavy Chain in Triple Negative Breast Cancer: A Favorable Prognostic Marker that Relates to a Cluster of Differentiation 8 Positive (CD8+) Effector T-cell Response
Ning Qing Liu, Tommaso De Marchi, Annemieke M. Timmermans, Robin Beekhof, Anita M.A.C. Trapman-Jansen, Renée Foekens, Maxime P. Look, Carolien H. M. van Deurzen, Paul N. Span, Fred C.G.J. Sweep, Julie Benedicte Brask, Vera Timmermans-Wielenga, Reno Debets, John W. M. Martens, John A. Foekens, and Arzu Umar

The Membrane Proteome of Sensory Cilia to the Depth of Olfactory Receptors
Katja Kuhlmann, Astrid Tschapek, Heike Wiese, Martin Eisenacher, Helmut E. Meyer, Hanns H. Hatt, Silke Oeljeklaus, and Bettina Warscheid

Evaluating Melanoma Drug Response and Therapeutic Escape with Quantitative Proteomics
Vito W. Rebecca, Elizabeth Wood, Inna V. Fedorenko, Kim H. T. Paraiso, H. Eirik Haarberg, Yi Chen, Yun Xiang, Amod Sarnaik, Geoffrey T. Gibney, Vernon K. Sondak, John M. Koomen, and Keiran S. M. Smalley

Technological Innovation and Resources

Large Scale Analysis of Co-existing Post-translational Modifications in Histone Tails Reveals Global Fine Structure of Cross-talk
Veit Schwämmle, Claudia-Maria Aspalter, Simone Sidoli, and Ole N. Jensen

Cell-specific Labeling Enzymes for Analysis of Cell–Cell Communication in Continuous Co-culture
Christopher J. Tape, Ida C. Norrie, Jonathan D. Worboys, Lindsay Lim, Douglas A. Lauffenburger, and Claus Jørgensen

Functional Module Search in Protein Networks based on Semantic Similarity Improves the Analysis of Proteomics Data
Desislava Boyanova, Santosh Nilla, Gunnar W. Klau, Thomas Dandekar, Tobias Müller, and Marcus Dittrich
Elevated Plasma Albumin and Apolipoprotein A-I Oxidation under Suboptimal Specimen Storage Conditions

Chad R. Borges, Douglas S. Rehder, Sally Jensen, Matthew R. Schaab, Nisha D. Sherma, Hussein Yassine, Boriana Nikolova, and Christian Breburda

Additions & Corrections

High resolution quantitative proteomics of HeLa cells protein species using stable isotope labeling with amino acids in cell culture (SILAC), two-dimensional gel electrophoresis (2DE) and nano-liquid chromatography coupled to an LTQ-Orbitrap mass spectrometer

Bernd Thiede, Christian J. Koehler, Margarita Strozynski, Achim Treumann, Robert Stein, Ursula Zimny-Arndt, Monika Schmid, and Peter R. Jungblut
| Author                  | Year  |
|-------------------------|-------|
| Adhikari, Jagat         | 1800  |
| Aebersold, Ruedi        | 1724, 1753 |
| Akbani, Rehan           | 1625  |
| Aslanian, Aaron         | 1659  |
| Aspalter, Claudia-Maria | 1855  |
| Barkinge, John L.       | 1705  |
| Bastin, Philippe        | 1769  |
| Bayer, Karen            | 1676  |
| Becker, Karl-Friedrich  | 1625  |
| Beekhof, Robin          | 1814  |
| Benedicte Brask, Julie  | 1814  |
| Blisnick, Thierry       | 1769  |
| Borges, Chad R.         | 1890  |
| Boyanova, Desislava     | 1877  |
| Breburda, Christian     | 1890  |
| Buisson, Johanna        | 1769  |
| Carr, Steven A.         | 1690  |
| Carragher, Neil         | 1625  |
| Cayet, Nadège           | 1769  |
| Chaikuad, Apirat        | 1724  |
| Chamot-Rooke, Julia     | 1769  |
| Chan, Daniel W.         | 1690  |
| Chen, Jing              | 1753  |
| Chen, Lijun             | 1753  |
| Chen, Yi                | 1844  |
| Chuu, Chih-Pin          | 1705  |
| Ciaccio, Mark F.        | 1705  |
| Clauser, Karl R.        | 1690  |
| Collins, Ben            | 1753  |
| Danekar, Thomas         | 1877  |
| Dao, Fanny              | 1690  |
| Davies, Sherri R.       | 1690  |
| de Koning, Leanne       | 1625  |
| De Marchi, Tommaso      | 1814  |
| de Medina-Redondo, Maria| 1724  |
| Debets, Reno            | 1814  |
| Decaris, Martin L.      | 1741  |
| Dittrich, Marcus        | 1877  |
| Duchateau, Magalie      | 1769  |
| Eisenacher, Martin      | 1828  |
| Ellis, Matthew          | 1690  |
| Emson, Claire L.        | 1741  |
| Erdmann-Gilmore, Petra  | 1690  |
| Fedorenko, Inna V.      | 1844  |
| Fenyo, David            | 1690  |
| Fitzgerald, Michael C.  | 1800  |
| FlorCruz, Simplicia     | 1741  |
| Foekens, John A.        | 1814  |
| Foekens, Renée          | 1814  |
| Gatmaitan, Michelle     | 1741  |
| Gatti, Marco            | 1724  |
| Gherardini, Pier Federico| 1787  |
| Gibney, Geoffrey T.     | 1844  |
| Gillet, Ludovic C.      | 1753  |
| Gillette, Michael A.    | 1690  |
| Goldstein, Ted          | 1625  |
| Gritsenko, Marina A.    | 1690  |
| Haarberg, H. Eirik      | 1844  |
| Hagen, Nicole           | 1676  |
| Hatt, Hanns H.          | 1828  |
| Hauri, Simon            | 1724  |
| Hause, Jr., Ronald J.   | 1705  |
| Hellerstein, Marc K.    | 1741  |
| Helmer-Citterich, Manuela| 1787|
| Herzog, Franz           | 1724  |
| Holmes, William E.      | 1741  |
| Hourdel, Véronique      | 1769  |
| Huet, Diego             | 1769  |
| Hunter, Tony            | 1659  |
| Jeganathan, Siva        | 1724  |
| Jensen, Ole N.          | 1855  |
| Jensen, Sally           | 1890  |
| Jin, Mingji             | 1659  |
| Jones, Richard B.       | 1705  |
| Jorgensen, Claus        | 1866  |
| Julkowska, Daria        | 1769  |
| Jungblut, Peter R.      | 1900  |
| Kitchens, R. Thomas     | 1690  |
| Klau, Gunnar W.         | 1877  |
| Knapp, Stefan           | 1724  |
| Koehler, Christian J.   | 1900  |
| Koomen, John M.         | 1844  |
| Korf, Ulrike            | 1625  |
| Kuhlmann, Katja         | 1828  |
| Lauffenburger, Douglas A.| 1866 |
| Leung, Kin K.           | 1705  |
| Levine, Douglas A.      | 1690  |
| Li, Kelvin              | 1741  |
| Li, Qing K.             | 1753  |
| Li, Shunqiang           | 1690  |
| Liebler, Daniel         | 1690  |
| Lim, Lindsay            | 1866  |
| Linding, Rune           | 1724  |
| Liotta, Lance           | 1625  |
| Liu, Tao                | 1690  |
| Liu, Yansheng           | 1753  |
| Look, Maxime P.         | 1814  |
| Lou, Hua Jane           | 1724  |
| Luo, Flora              | 1741  |
Ma, Li, 1659
Maiolica, Alessio, 1724
Mani, D. R., 1690
Martens, John W.M., 1814
Meraldi, Patrick, 1724
Mertins, Philipp, 1690
Meyer, Helmut E., 1828
Mills, Gordon B., 1625, 1690
Moore, Ronald J., 1690
Moran, Michael F., 1644
Müller, Tobias, 1877
Myler, Peter J., 1787
Namane, Abdelkader, 1769
Nikolova, Boriana, 1890
Nillia, Santosh, 1877
Nishizuka, Satoshi S., 1625
Novy, Karel, 1724
Oeljeklaus, Silke, 1828
Olvera, Narciso, 1690
Paraiso, Kim H. T., 1844
Paulovich, Amanda G., 1690
Penengo, Lorenza, 1724
Petryuk, Vladislav A., 1690
Pollard, Harvey B., 1625
Qiao, Jana W., 1690
Qing Liu, Ning, 1814
Rebecca, Vito W., 1844
Reeg, Nele, 1769
Rehder, Douglas S., 1890
Rodland, Karin D., 1690
Rodriguez, Henry, 1690
Rösch, Kathrin, 1676
Rousselle, Jean-Claude, 1769
Ruggles, Kelly V., 1690
Santi-Rocca, Julien, 1769
Sarnaik, Amod, 1844
Schoaf, Matthew R., 1890
Schindler, Michael, 1676
Schmid, Monika, 1900
Schoof, Erwin M., 1724
Schwämmle, Veit, 1855
Serrels, Bryan, 1625
Sethi, Atul, 1753
Sherma, Nisha D., 1890
Shi, Yu, 1659
Sidoli, Simone, 1855
Smalley, Keiran S. M., 1844
Smith, Richard D., 1690
Snider, Jacqueline E., 1690
Sondak, Vernon K., 1844
Span, Paul N., 1814
Späth, Gerald F., 1787
Stein, Robert, 1900
Strozynski, Margarita, 1900
Subota, Ines, 1769
Sun, Huaiyu, 1659
Sweep, Fred C.G.J., 1814
Tape, Christopher J., 1866
Taylor, Paul, 1644
Thiede, Bernd, 1900
Timmermans, Annemieke M., 1814
Timmermans-Wielenga, Vera, 1814
Tong, Jiefei, 1644
Toprak, Umut H., 1724
Townsend, Reid, 1690
Tran, Duc T., 1800
Trappman-Jansen, Anita M.A.C., 1814
Treumann, Achim, 1900
Tschapek, Astrid, 1828
Tsigankov, Polina, 1787
Turk, Benjamin E., 1724
Turner, Scott M., 1741
Umar, Arzu, 1814
van Deurzen, Carolien H.M., 1814
Villa, Fabrizio, 1724
Vincensini, Laetitia, 1769
Warscheid, Bettina, 1828
White, Forest, 1690
Wisse, Heike, 1828
Wollscheid, Bernd, 1753
Wood, Elizabeth, 1844
Worboys, Jonathan D., 1866
Xiang, Yun, 1844
Yang, Feng, 1690
Yassine, Hussein, 1890
Yates, John R., III, 1659
Zhang, Hui, 1753
Zhu, Jingchun, 1625
Zilberstein, Dan, 1787
Zimny-Arndt, Ursula, 1900