



Publications on ProPic (2001 – June 2011). ProPic Imaging and Spot-Picking Workstation.

2011.

[Identification and Validation of Novel Cerebrospinal Fluid Biomarkers for Staging Early Alzheimer's Disease.](#)

Richard J. Perrin, Rebecca Craig-Schapiro, James P. Malone, Aarti R. Shah, Petra Gilmore, Alan E. Davis, Catherine M. Roe, Elaine R. Peskind, Ge Li, Douglas R. Galasko, Christopher M. Clark, Joseph F. Quinn, Jeffrey A. Kaye, John C. Morris, David M. Holtzman, R. Reid Townsend, Anne M. Fagan

PLoS One, 12 January 2011; 6(1): e16032.

[Consequences of Depletion of the Signal Recognition Particle in *Escherichia coli*](#)

David Wickström, Samuel Wagner, Louise Baars, A. Jimmy Ytterberg, Mirjam Klepsch, Klaas J. van Wijk, Joen Luirink and Jan-Willem de Gier

The Journal of Biological Chemistry, 11 February 2011; 286: 4598-4609.

[The DNA repair complex Ku70/86 modulates Apaf1 expression upon DNA damage.](#)

Francesco Cecconi, Daniela De Zio, Matteo Bordi, Elisa Tino, Chiara Lanzaolo, Eugenio Mora, Fabiola Ciccocanti, Gian Maria Fimia, Valerio Orlando, Elisabetta Ferraro

Cell Death Differ., March 2011; 18(3): 516-527.

[Analysis of proteomic changes induced upon cellular differentiation of the human intestinal cell line Caco-2.](#)

Thorsten Buhrke, Imme Lengler, Alfonso Lampen

Dev Growth Differ., April 2011; 53(3): 411-426.

[Studies of variability in Holm oak \(*Quercus ilex* subsp. *ballota* \[Desf.\] Samp.\) through acorn protein profile analysis.](#)

José Valero Galván, Luis Valledo, Rafael M. Navarro Cerrillo, Eustaquio Gil Pelegrín and Jesus V. Jorrín-Novo

J Proteomics, 12 May 2011; [Epub ahead of print]

[Co-purification of Mac-2 binding protein with galectin-3 and association with prostasomes in human semen.](#)

Ashley S. Block, Sarika Saraswati, Cheryl F. Lichti, Maha Mahadevan, Alan B. Diekman

The Prostate, 15 May 2011; 71(7): 711–721

[Dynamic changes in the leaf proteome of a C₃ xerophyte, *Citrullus lanatus* \(wild watermelon\), in response to water deficit.](#)

Kinya Akashi, Kazuo Yoshida, Masayoshi Kuwano, Masataka Kajikawa, Kazuya Yoshimura, Saki Hoshiyasu, Naoyuki Inagaki and Akiho Yokota

Planta, May 2011; 233(5): 947-960

[Quantification of Cysteinyl S-Nitrosylation by Fluorescence in. Unbiased Proteomic Studies.](#)

John E. Wiktorowicz, Susan Stafford, Harriet Rea, Petri Urvil, Kizhake Soman, Alexander Kurosky, J. Regino Perez-Polo, and Tor C. Savidge
Biochemistry. 7 June 2011 [Epub ahead of print]

[Plant having enhanced root elongation and method for production thereof.](#)

Akashi, Kinya, Yokota, Akiho, Yoshimura, Kazuya
United States Patent 7956241, Publication Date: 07 June 2011

[Characterization and detection of cellular and proteomic alterations in stable stathmin-overexpressing, taxol-resistant BT549 breast cancer cells using offgel IEF/PAGE difference gel electrophoresis.](#)

Manimalha Balasubramani, Chitose Nakao, Guy T. Uechi, John Cardamone, Kathy Kamath, Kristen L. Leslie, Raghavan Balachandran, Leslie Wilson, Billy W. Day and Mary Ann Jordan
Mutation Research/Genetic Toxicology & Environmental Mutagenesis, 17 June 2011; 722(2): 2154-2164

[Identification of native *Escherichia coli* BL21 \(DE3\) proteins that bind to immobilized metal affinity chromatography under high imidazole conditions and use of 2D-DIGE to evaluate contamination pools with respect to recombinant protein expression level.](#)

Patrick Bartlow, Guy T. Uechi, John J. Cardamone Jr., Tamanna Sultana, McKinzie Fruchtl, Robert R. Beitle and Mohammad M. Atai
Protein Expression and Purification, August 2011; 78(2): 216-224

[A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by *Paracoccus denitrificans*.](#)

Andrew J Gates, Victor Luque-Almagro, Alan Goddard, Stuart John Ferguson, María Dolores Roldán, David J Richardson
Biochemical Journal, 2011; 435(3): 743-753

[Viral-mediated Inhibition of Antioxidant Enzymes Contributes to the Pathogenesis of Severe Respiratory Syncytial Virus Bronchiolitis.](#)

Yashoda M. Hosakote, Paul D. Jantzi, Dana L. Esham, Heidi Spratt, Alexander Kurosky, Antonella Casola and Roberto P. Garofalo
American Journal of Respiratory and Critical Care Medicine, 2011; 183: 1550-1560.

[Characterization of the Antibody Response to the Saliva of *Phlebotomus papatasi* in People Living in Endemic Areas of Cutaneous Leishmaniasis.](#)

Soumaya Marzouki, Mélika Ben Ahmed, Thouraya Boussoffara, Maha Abdeladhim, Nissaf Ben Aleya-Bouafif, Abdelkader Namane, Nabil Belhaj Hamida, Afif Ben Salah and Hechmi Louzir
American J Tropical Med Hyg., 2011; 84(5): 653-661

[A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by *Paracoccus denitrificans*.](#)

Richardson, David; Gates, Andrew; Luque-Almagro, Victor; Goddard, Alan; Ferguson, Stuart; Roldán, María
PEER REPOSITORY GÖTTINGEN, 2011
<http://repository.peerproject.eu:8080/jspui/handle/123456789/14103>

2010.

[Proteomics Analysis of the Nucleolus in Adenovirus-infected Cells.](#)

Yun W. Lam, Vanessa C. Evans, Kate J. Heesom, Angus I. Lamond and David A. Matthews
Molecular & Cellular Proteomics, 1 January 2010; 9(1): 117-130

[A novel role for the adipokine visfatin/pre-B cell colony-enhancing factor 1 in prostate carcinogenesis.](#)

Snehal T. Patel, Tina Mistry, James E.P. Brown, Janet E. Digby, Raghu Adya, Ken M. Desai and Harpal S. Randeva
Peptides, January 2010; 31(1): 51-57

[Airway proteins involved in bacterial clearance susceptible to cathepsin G proteolysis.](#)

M. M. Farberman, K. T. Akers, J. P. Malone, P. Erdman-Gilmore, R. R. Townsend and T. Ferkol
Eur Respiratory Journal, 1 February 2010; 35(2): 410-417

[Pharmacological Impairment of S-Nitrosoglutathione or Thioredoxin Reductases Augments Protein S-Nitrosation in Human Hepatocarcinoma Cells.](#)

Laura M. López-Sánchez, Fernando J. Corrales, Chary López-Pedreira, Enrique Aranda and Antonio Rodríguez-Ariza
Anticancer Research, 1 February 2010; 30(2): 415-421

[Galectin-3 is associated with prostasomes in human semen.](#)

Jennifer L. Jones, Sarika Saraswati, Ashley S. Block, Cheryl F. Lichti, Maha Mahadevan and Alan B. Diekman
Glycoconjugate Journal, February 2010; 27(2): 227-236

[Identification of candidate biomarkers in ovarian cancer serum by depletion of highly abundant proteins and differential in-gel electrophoresis.](#)

John D. Andersen, Kristin L. M. Boylan, Feifei S. Xue, Lorraine B. Anderson, Bruce A. Witthuhn, Todd W. Markowski, LeeAnn Higgins, Amy P. N. Skubitz
Electrophoresis, February 2010; 31(4): 599-610

[Cytoskeletal proteins bound to heat-shock protein 70 may elicit resistance to simian immunodeficiency virus infection of CD4⁺ T cells.](#)

Lesley A. Bergmeier, Kaboutar Babaahmady, Jeffrey Pido-Lopez, Kate J. Heesom, Charles G. Kelly, Thomas Lehner
Immunology, April 2010; 129(4): 506-515

[GLO1 overexpression in human malignant melanoma.](#)

Warner B. Bair III; Christopher M. Cabello; Uchida, Koji; Bause, Alexandra S.; Wondrak, Georg T.
Melanoma Research, April 2010; 20(2): 85-96

Phosphoproteome dynamics reveal heat-shock protein complexes specific to the *Leishmania donovani* infectious stage

Miguel A. Morales, Reiko Watanabe, Mariko Dacher, Philippe Chafey, José Osorio y Fortéa, David A. Scott, Stephen M. Beverley, Gabi Ommen, Joachim Clos, Sonia Hem, Pascal Lenormand, Jean-Claude Rousselle, Abdelkader Namane, and Gerald F. Späth
Proceedings of National Academy of Science U S A, 4 May 2010; 107(18): 8381-8386

Regulation of antibiotic production in *Streptomyces coelicolor*: A bacterial hormone receptor variant and the awakening of a cryptic antibiotic biosynthesis gene cluster.

Marco Gottelt
Ph.D. Thesis, University of Groningen, 7 May 2010; pp. 1-199

Proteomic analysis of outer membrane proteins of *Edwardsiella tarda*

G. Kumar, P. Sharma, G. Rathore, D. Bisht, U. Sengupta
Journal of Applied Microbiology, June 2010; 108(6): 2214–2221

In vivo assessment and potential diagnosis of xenobiotics that perturb the thyroid pathway: Proteomic analysis of *Xenopus laevis* brain tissue following exposure to model T4 inhibitors.

Jose Serrano, LeeAnn Higgins, Bruce A. Witthuhn, Lorraine B. Anderson, Todd Markowski, Gary W. Holcombe, Patricia A. Kosian, Joseph J. Korte, Joseph E. Tietge and Sigmund J. Degitz
Comparative Biochemistry Physiology Part D Genomics Proteomics, June 2010; 5(2):138-150

Changes induced by two levels of cadmium toxicity in the 2-DE protein profile of tomato roots.

Jorge Rodríguez-Celma, Rubén Rellán-Álvarez, Anunciación Abadía, Javier Abadía and Ana-Flor López-Millán
Journal of Proteomics, 5 August 2010; 73(9): 1694-1706

Mesencephalic and striatal protein profiles in mice over-expressing glucose-6-phosphate dehydrogenase in dopaminergic neurons.

Antonio Romero-Ruiz, Rebeca Mejías, Juan Díaz-Martín, José López-Barneo and Lin Gao
Journal of Proteomics, 5 August 2010; 73(9): 1747-1757

Combined Proteomic and Transcriptomic Analysis Identifies Differentially Expressed Pathways Associated to *Pinus radiata* Needle Maturation.

Luis Valledor, Jesús V. Jorrín, Jose Luis Rodríguez, Christof Lenz, Mónica Mejjón, Roberto Rodríguez and Maria Jesús Cañal
J Proteome Research, 6 August 2010; 9(8): 3954-3979.

Abscisic acid and sucrose increase the protein content in date palm somatic embryos, causing changes in 2-DE profile.

Besma Sghaier-Hammami, Jesús V. Jorrín-Novo, Radhia Gargouri-Bouzid and Nouredine Drira
Phytochemistry, August 2010; 71(11-12): 1223-1236

An in vitro infection model system to study proteins expressed during interaction of mycobacterium with murine macrophages.

Neelja Singhal, Prashant Sharma, Bhavnesh Kumar, Utpal Sengupta, Krishnamurthy Venkatesan, Deepa Bisht

Advances in Bioscience and Biotechnology, August 2010; 1: 180-184

Two-dimensional gel electrophoresis-based proteomic analysis of the *Medicago truncatula*–*Uromyces striatus* interaction.

M.Á. Castillejo, R. Susín, E. Madrid, M. Fernández-Aparicio, J.V. Jorrín, D. Rubiales
Annals of Applied Biology, September 2010; 157(2): 243–257

Role of Peroxiredoxin 1 and Peroxiredoxin 4 in Protection of Respiratory Syncytial Virus-Induced Cysteinyl Oxidation of Nuclear Cytoskeletal Proteins.

Mohammad Jamaluddin, John E. Wiktorowicz, Kizhake V. Soman, Istvan Boldogh, Jeffrey D. Forbus, Heidi Spratt, Roberto P. Garofalo, and Allan R. Brasier
Journal of Virology, September 2010; 84(18): 9533-9545

The stromal-vascular fraction of adipose tissue contributes to major differences between subcutaneous and visceral fat depots.

Juan R. Peinado, Yolanda Jimenez-Gomez, Marina R. Pulido, Maria Ortega-Bellido, Cesar Diaz-Lopez, Francisco J. Padillo, Jose Lopez-Miranda, Rafael Vazquez-Martínez, María M. Malagón
Proteomics, September 2010; 10(18): 3356–3366

Bryostatin-1 Synergizes with Histone Deacetylase Inhibitors to Reactivate HIV-1 from Latency.

Perez, Moises; de Vinuesa, Amaya G.; Sanchez-Duffhues, Gonzalo; Marquez, Nieves; Bellido, M. L.u.z.; Munoz-Fernandez, M. Angeles; Moreno, Santiago; Castor, Trevor P.; Calzado, Marco A.; Munoz, Eduardo
Current HIV Research, September 2010; 8(6): 418-429

Proteome mapping of overexpressed membrane-enriched/cytosolic-proteins in Sodium Antimony Gluconate resistant clinical isolate of *Leishmania donovani*.

Awanish Kumar, Brijesh Sisodia, Pragya Misra, Shyam Sundar, Ajit Kumar Shasany, Anuradha Dube
British Journal of Clinical Pharmacology, October 2010; 70(4): 609-617.

Streptomycin induced protein expression analysis in *Mycobacterium tuberculosis* by two-dimensional gel electrophoresis & mass spectrometry.

Sharma Prashant, Kumar Bhavnesh, Singhal Neelja, Katoch Vishwa Mohan, Venkatesan Krishnamurthy, Chauhan Ddevendra Singh, Bisht Deepa.
Indian J Med Res., October 2010; 132: 400-408.

Identification of osteocyte-selective proteins.

Dayong Guo, Andrew Keightley, Jill Guthrie, Patricia A. Veno, Stephen E. Harris, Lynda F. Bonewald
Proteomics, October 2010; 10(20): 3688-3698

Identification of Potential Diagnostic Markers among *Burkholderia cenocepacia* and *B. multivorans* Supernatants.

Tiffany Mott, Michael Soler, Sierrah Grigsby, Ronald Medley, and Gregory C. Whitlock
Journal of Clinical Microbiology, November 2010; 48(11): 4186-4192

[Proteomic analysis of streptomycin resistant and sensitive clinical isolates of *Mycobacterium tuberculosis*.](#)

Prashant Sharma, Bhavnesh Kumar, Yash Gupta, Neelja Singhal, Vishwa Mohan Katoch, Krishnamurthy Venkatesan, Deepa Bisht
Proteome Sci., 18 November 2010; 8: 59.

[The Decreased Expression of Peroxisome Proliferator-activated Receptors \$\delta\$ \(PPAR \$\delta\$ \) is Reversed by Digoxin in the Heart of Diabetic Rats](#)

S. C. Fan, B. C. Yu, Z. C. Chen, L. J. Chen, H. H. Chung, J. T. Cheng
Horm Metab Res., 2010; 42(9): 637-642

[Proteomic analysis identifies prohibitin down-regulation as a crucial event in the mitochondrial damage observed in HIV-infected patients.](#)

Ciccosanti Fabiola, Corazzari Marco, Soldani Fabio, Matarrese Paola, Pagliarini Vittoria, Iadevaia Valentina, Tinari Antonella, Zaccarelli Mauro, Perfettini Jean-Luc, Malorni Walter, Kroemer Guido, Antinori Andrea, Fimia Gian Maria, Piacentini Mauro.
Antiviral Ther., 2010; 15(3): 377-390.

[A second form of the \$\gamma\$ -butyrolactone receptor ScbR in *Streptomyces coelicolor* A3\(2\) shows impaired DNA binding ability and affects the expression of pathway-specific antibiotic regulatory genes”](#)

M. Gottelt, A. Hesketh, R. Bunet, P. Puri, A. van der Pol, and E. Takano
(2010, Submitted)

2009.

[Analysis of the Differential Host Cell Nuclear Proteome Induced by Attenuated and Virulent Hemorrhagic Arenavirus Infection](#)

Gavin C. Bowick, Heidi M. Spratt, Alison E. Hogg, Janice J. Endsley, John E. Wiktorowicz, Alexander Kurosky, Bruce A. Luxon, David G. Gorenstein and Norbert K. Herzog
Journal of Virology, January 2009; 83(2): 687-700.

[Characterisation of two antibodies to oligomeric A \$\beta\$ and their use in ELISAs on human brain tissue homogenates](#)

Zoë van Helmond, Kate Heesom, Seth Love
Journal of Neuroscience Methods, 30 January 2009, 176(2): 206-212

[Function and ribosomal localization of aIF6, a translational regulator shared by archaea and eukarya](#)

Dario Benelli, Stefano Marzi, Carmine Mancone, Tonino Alonzi, Anna la Teana and Paola Londei
Nucleic Acids Research, January 2009; 37(1):256-267

[The Asialoglycoprotein Receptor Regulates Levels of Plasma Glycoproteins Terminating with Sialic Acid \$\alpha\$ 2,6-Galactose.](#)

Lindsay M. Steirer, Eric I. Park, R. Reid Townsend, and Jacques U. Baenziger
J. Biol. Chemistry, 6 February 2009; 284(6): 3777-3783

Signaling to the apical membrane and to the paracellular pathway: changes in the cytosolic proteome of *Aedes* Malpighian tubules.

Klaus W. Beyenbach, Sabine Baumgart, Kenneth Lau, Peter M. Piermarini, Sheng Zhang
J Exp Biology, February 2009; 212(3): 329-340

Proteomic and phenotypic profiling of the amphibian pathogen *Batrachochytrium dendrobatidis* shows that genotype is linked to virulence.

Matthew C. Fisher, Jaime Bosch, Zhikang Yin, David A. Stead, Janet Walker, Laura Selway, Alistair J. P. Brown, Louise A. Walker, Neil A. R. Gow, Jason E. Stajich, Trenton W. J. Garner
Molecular Ecology, February 2009; 18(3): 415–429,

Proteomic analysis of anoxia tolerance in the developing zebrafish embryo

Bryce A. Mendelsohn, James P. Malone, R. Reid Townsend, Jonathan D. Gitlin
Comparative Biochemistry & Physiology, D: Genomics & Proteomics, March 2009, 4(1): 21-31

Proteomic changes induced by knockdown of stathmin in bt549 breast cancer cell lines.

Song, Yumin; *MS Thesis*, School of Pharmacy University of Pittsburgh, 20 April 2009; pp. 1-48
<http://challenger.library.pitt.edu/ETD/available/etd-04242009-001103/>

Analysis of the periplasmic proteome of *Pseudomonas aeruginosa*, a metabolically versatile opportunistic pathogen.

Francesco Imperi , Fabiola Ciccocanti , Ariel Basulto Perdomo, Federica Tiburzi, Carmine Mancone, Tonino Alonzi, Paolo Ascenzi, Mauro Piacentini, Paolo Visca, Gian Maria Fimia
Proteomics, April 2009; 9(7): 1901–1915

Proteomic analysis of the development and germination of date palm (*Phoenix dactylifera* L.) zygotic embryos.

Besma Sghaier-Hammami, Luis Valledor, Noureddine Drira, Jesús V. Jorin-Novo
Proteomics, May 2009; 9(9): 2543-2554

Identification and isolation of cDNA clones encoding the abundant secreted proteins in the saliva proteome of *Culicoides nubeculosus*.

C. L. Russell, K. J. Heesom, C. J. Arthur, C. R. Helps, P. S. Mellor, M. J. Day, S. Torsteinsdottir, T. S. Björnsdóttir and A. D. Wilson
Insect Mol Biology, June 2009; 18(3): 383-393

Differential composition of culture supernatants from wild-type *Brucella abortus* and its isogenic *virB* mutants.

M. Victoria Delpino, Diego J. Comerci, Mary Ann Wagner, Michel Eschenbrenner, Cesar V. Mujer, Rodolfo A. Ugalde, Carlos A. Fossati, Pablo C. Baldi and Vito G. DelVecchio
Arch Microbiology, July 2009; 191(7): 571-581

Identification of total and differentially expressed excreted–secreted proteins from *Trypanosoma congolense* strains exhibiting different virulence and pathogenicity

Pascal Grébaud, Paul Chuchana, Jean-Paul Brizard, Edith Demetere, Martial Seveno, Géraldine Bossard, Patrick Jouin, Philippe Vincendeau, Zakaria Bengaly, Alain Boulangé, Gérard Cuny, Philippe Holzmüller
International Journal for Parasitology, August 2009; 39(10): 1137-1150

Comparative Transcriptome and Proteome Analysis of Ha-ras and B-raf Mutated Mouse Liver Tumors.

Benjamin Rignall, Carina Ittrich, Eberhard Krause, Klaus E. Appel, Albrecht Buchmann and Michael Schwarz

J Proteome Research, August 2009; 8(8): 3987-3994.

Analysis of the differential proteome of human erythroblasts during *in vitro* erythropoiesis by 2-D DIGE.

Ben M. Richardson, Kate J. Heesom, Steve F. Parsons, Dave J. Anstee, Jan Frayne

Proteomics, September 2009; 3(9): 1123-1134,

Vesicular fractions of sunflower apoplastic fluids are associated with potential exosome marker proteins.

Mariana Regentea, Georgina Corti-Monzóna, Ana María Maldonadob, Marcela Pinedoa, Jesús Jorrínb, Laura de la Canal

FEBS Letters, 20 October 2009; 583(20): 3363-3366

An Effective Method for the Analysis of Human Plasma Proteome using Two-dimensional Gel Electrophoresis.

Yasmin Ahmad and Narendra Sharma

J Proteomics Bioinformatics, 2 November 2009; 2(12): 495-499

Comparative 2-DE proteomic analysis of date palm (*Phoenix dactylifera* L.) somatic and zygotic embryos.

Besma Sghaier-Hammami, Noureddine Drira and Jesús V. Jorrín-Novo

Journal of Proteomics, 2 November 2009; 73(1): 161-177

Protein targets of tyrosine nitration in sunflower (*Helianthus annuus* L.) hypocotyls.

Mounira Chaki, Raquel Valderrama, Ana M. Fernández-Ocaña, Alfonso Carreras, Javier López-Jaramillo, Francisco Luque, José M. Palma, José R. Pedrajas, Juan C. Begara-Morales, Beatriz Sánchez-Calvo, María V. Gómez-Rodríguez, Francisco J. Corpas and Juan B. Barroso

J Exp Botany, November 2009; 60(15): 4221-4234.

Epub 2009 Aug 28.

Metodología y aplicaciones en proteómica clínica.

Ángel San Miguel-Hernández, Francisco J. Martín-Gil & Alicia Armentia-Medina

Diálisis y Trasplante, October-December 2009; 30(4): 139-143

Toxicogenomic analysis of N-nitrosomorpholine induced changes in rat liver: Comparison of genomic and proteomic responses and anchoring to histopathological parameters.

A Oberemm, H-J Ahr, P Bannasch, H Ellinger-Ziegelbauer, M Glückmann, J Hellmann, C Ittrich, A Kopp-Schneider, P-J Kramer, E Krause, M Kröger, E Kiss, H-B Richter-Reichhelm, G Scholz, K Seemann, M Weimer, U Gundert-Remy

Toxicology and applied pharmacology, 1 December 2009; 241(2): 230-245

Differential protein expression in early Atlantic cod larvae (*Gadus morhua*) in response to treatment with probiotic bacteria.

Hólmfríður Sveinsdóttir, Agnar Steinarrson and Ágústa Guðmundsdóttir

Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, December 2009; 4(4): 249-254

Curcumin Cross-links Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) Polypeptides and Potentiates CFTR Channel Activity by Distinct Mechanisms.

Karen Bernard, Wei Wang, Rajeshwar Narlawar, Boris Schmidt, and Kevin L. Kirk
J. Biol. Chemistry, 6 November 2009; 284(45): 30754-30765

Mesenchymal stem cell-secreted superoxide dismutase promotes cerebellar neuronal survival

Kevin Kemp, Kelly Hares, Elizabeth Mallam, Kate J. Heesom, Neil Scolding, Alastair Wilkins
J Neurochemistry, 17 December 2009; [Epub ahead of print]

2008

Phosphoproteomic analysis of *Leishmania donovani* pro- and amastigote stages.

Miguel A. Morales, Reiko Watanabe, Christine Laurent, Pascal Lenormand, Jean-Claude Rousselle, Abdelkader Namane, Gerald F. Späth
Proteomics, January 2008; 8(2): 350 – 363

Isolation of analytes.

Inventors: Wayne Forrest Patton, Thomas Edwin Miller, Nan Fei Jiang, Michael Paul O'Malley
Patent Application Publication # US 2008/0026408 A1; Pub. Date: 31 January 2008

P144(F)-S. Overview of Cornell Proteomics and Mass Spectrometry Core Facility

S. Zhang, R. Sherwood, S. Baumgart, C. Ptak, J. Scott;
Biomol Tech. 2008 February; 19(1): 46 PMCID: PMC2359594

P173-S Analysis of Autophosphorylation of n-Src Tyrosine Kinase Using Difference Gel Electrophoresis

V. Marin, B. R. Grovemen, D. Terry, E. A. Bienkiewicz, I. S. Isaac, X. Yu;
Biomol Tech. 2008 February; 19(1): 55 PMCID: PMC2359594

P184-T Increased Sequence Coverage of Proteins by MALDI-TOF-TOF Is Achieved by Automated Modification of Lysine Residues Using ProGest Apparatus

N. P. Skiba, S. M. Gospe, B. Reidel, I. Isaac;
Biomol Tech. 2008 February; 19(1): 59-60 PMCID: PMC2359594

Programmed Proteome Response for Drought Avoidance/Tolerance in the Root of a C3 Xerophyte (Wild Watermelon) Under Water Deficits

Yoshimura, Kazuya; Masuda, Akiko; Kuwano, Masayoshi; Yokota, Akiho; Akashi, Kinya
Plant and Cell Physiology, February 2008; 49(2): 226-241

Metaproteomics Provides Functional Insight into Activated Sludge Wastewater Treatment

Paul Wilmes, Margaret Wexler and Philip L. Bond
PLoS One, 12 March 2008; 3(3): e1778, p. 1-11; published online

Identification of abundant proteins and potential allergens in *Culicoides nubeculosus* salivary glands

A.D. Wilson, K.J. Heesom, W.J. Mawby, P.S. Mellor, C.L. Russell
Veterinary Immunology and Immunopathology, 15 March 2008, 122(1-2): 94-103

Detection and Proteomic Identification of S-Nitrosated Proteins in Human Hepatocytes

Laura M. López-Sánchez, Fernando J. Corrales, Manuel De La Mata, Jordi Muntané, Antonio Rodríguez-Ariza
Methods in Enzymology, 2008, 440: 273-281

Effects of SecE Depletion on the Inner and Outer Membrane Proteomes of *Escherichia coli*.

Louise Baars, Samuel Wagner, David Wickström, Mirjam Klepsch, A. Jimmy Ytterberg, Klaas J. van Wijk, and Jan-Willem de Gier
Journal of Bacteriology, May 2008; 190(10): 3505-3525

Functional genomics in a non-model crop: transcriptomics or proteomics?

Sebastien Christian Carpentier, Bert Coemans, Nancy Podevin, Kris Laukens, Erwin Witters, Hideo Matsumura, Ryohei Terauchi, Rony Swennen, Bart Panis
Physiologia Plantarum, June 2008; 133(2): 117–130,

Changes in the proteome of functional and regressing corpus luteum during pregnancy and lactation in the rat.

González-Fernández R, Martínez-Galisteo E, Gaytán F, Bárcena JA, Sánchez-Criado JE.
Biol. Reproduction, July 2008; 79(1): 100-14

Molecular Mechanisms of Action of Imatinib Mesylate in Human Ovarian Cancer: A Proteomic Analysis.

Bhavinkumar B. Patel, Yin A.He, Xin- Ming Li, Andrey Frolov, Lisa Vanderveer, Carolyn Slater, Russell J. Schilder, Margaret von Mehren, Andrew K. Godwin, Anthony T. Yeung
Cancer Genomics Proteomics, 1 May 2008; 5(3-4): 137-149.

Comprehensive proteome analysis of *Mycobacterium ulcerans* and quantitative comparison of mycolactone biosynthesis.

Petra Tafelmeyer, Christine Laurent, Pascal Lenormand, Jean-Claude Rousselle, Laurent Marsollier, Gilles Reysset, Runxuan Zhang, Albert Sickmann, Timothy P. Stinear, Abdelkader Namane, Stewart T. Cole
Proteomics, August 2008; 8(15): 3124–3138

Improved image analysis workflow for 2-D gels enables large-scale 2-D gel-based proteomics studies - COPD biomarker discovery study.

Julia E. Bandow, John D. Baker, Matthias Berth, Cory Painter, Osvaldo J. Sepulveda, Kelly A. Clark, Iain Kilty, Ruth A. VanBogelen
Proteomics, August 2008, 8(15): 3030 - 3041

Quantitative Proteomics of a Chloroplast *SRP54* Sorting Mutant and Its Genetic Interactions with *CLPC1* in *Arabidopsis*.

Heidi Rutschow, A. Jimmy Ytterberg, Giulia Friso, Robert Nilsson, and Klaas J. van Wijk
Plant Physiol. 2008 September; 148(1): 156–175. PMCID: PMC2528104

[Consequences of C4 differentiation for chloroplast membrane proteomes in maize mesophyll and bundle sheath cells](#)

Wojciech Majeran, Boris Zybailov, A. Jimmy Ytterberg, Jason Dunsmore, Qi Sunc, Klaas J. van Wijk

Mol Cell Proteomics, September 2008; 7(9): 1609-38

[The co-translocation of ERp57 and calreticulin determines the immunogenicity of cell death](#)

Panaretakis T, Joza N, Modjtahedi N, Tesniere A, Vitale I, Durchschlag M, Fimia GM, Kepp O, Piacentini M, Froehlich KU, van Endert P, Zitvogel L, Madeo F, Kroemer G.

Cell Death & Differentiation, September 2008; 15(9): 1499-509

[Proteome analysis of abundant proteins in two age groups of early Atlantic cod \(*Gadus morhua*\) larvae](#)

Hólmsfríður Sveinsdóttira, Oddur Vilhelmsson and Ágústa Gudmundsdóttir

Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, September 2008; 3(3): 243-250

[Evaluation of three different protocols of protein extraction for *Arabidopsis thaliana* leaf proteome analysis by two-dimensional electrophoresis.](#)

Ana M. Maldonado, Sira Echevarría-Zomeño, Sylvia Jean-Baptiste, Martha Hernández, Jesús V. Jorrín-Novo

Journal of Proteomics, 7 October 2008, 71(4): 461-472

[Proteomic Analysis of Mouse Hypothalamus under Simulated Microgravity.](#)

Poonam Sarkar, Shubhashish Sarkar, Vani Ramesh, Helen Kim, Stephen Barnes, Anil Kulkarni, Joseph C. Hall, Bobby L. Wilson, Renard L. Thomas, Neal R. Pellis, and Govindarajan T. Ramesh
Neurochem Research, November 2008; 33(11): 2335–2341.

[In Vivo Interactome of *Helicobacter pylori* Urease Revealed by Tandem Affinity Purification](#)

Kerstin Stingl, Kristine Schauer, Chantal Ecobichon, Agnès Labigne, Pascal Lenormand, Jean-Claude Rousselle, Abdelkader Namane and Hilde de Reuse

Molecular & Cellular Proteomics, 1 December 2008; 7(12): 2429-2441.

[Proteomic analysis of the porcine platelet proteome and alterations induced by thrombin activation](#)

Gloria Estes, María Isabel Mora, Juan José Garrido, Fernando Corrales and Ángela Moreno

Journal of Proteomics, December 2008; 71(5): 547-560

[In Vivo Interactome of *Helicobacter pylori* Urease Revealed by Tandem Affinity Purification](#)

Kerstin Stingl, Kristine Schauer, Chantal Ecobichon, Agnès Labigne, Pascal Lenormand, Jean-Claude Rousselle, Abdelkader Namane and Hilde de Reuse

Molecular & Cellular Proteomics, December 2008; 7(12): 2429-2441

[A unified sample preparation protocol for proteomic and genomic profiling of cervical swabs to identify biomarkers for cervical cancer screening](#)

Janet S. Rader, James P. Malone, Julia Gross, Petra Gilmore, Rebecca A. Brooks, Loan Nguyen, Dan L. Crimmins, Sheng Feng, Jason D. Wright, Nicholas Taylor, Israel Zigelboim, Margo C. Funk, Phyllis C. Huettner, Jack H. Ladenson, David Gius, R. Reid Townsend

Proteomics - Clinical Applications, December 2008; 2(12): 1658 - 1669

2D Difference Gel Electrophoresis of Prepubertal and Pubertal Rat Mammary Gland Proteomes.

Helen Kim, Mark B. Cope, Richie Herring, Gloria Robinson, Landon Wilson, Grier P. Page and Stephen Barnes

J. Proteome Research, November 2008, 7 (11): 4638–4650.

2007

Evaluation of an in vitro model of androgen ablation and identification of the androgen responsive proteome in LNCaP cells

John G. Rowland, Joanne L. Robson, William J. Simon, Hing Y. Leung, Antoni R. Slabas

Proteomics, January 2007; 7(1): 47-63

Proteomic analysis of human very low-density lipoprotein by two-dimensional gel electrophoresis and MALDI-TOF/TOF

Carmine Mancone, Laura Amicone, Gian Maria Fimia, Elena Bravo, Mauro Piacentini, Marco Tripodi, Tonino Alonzi

Proteomics, January 2007; 7(1): 143-154

Conifer defense against insects: Proteome analysis of Sitka spruce (*Picea sitchensis*) bark induced by mechanical wounding or feeding by white pine weevils (*Pissodes strobi*)

Dustin Lippert, Sunita Chowrira, Steven Gregory Ralph, Jun Zhuang, Dana Aeschliman, Carol Ritland, Kermit Ritland, Jörg Bohlmann

Proteomics, January 2007; 7(2): 248-270

Streamlining Plant Sample Preparation: The Use of High-Throughput Robotics to Process *Echinacea* Samples for Biomarker Profiling by MALDI-TOF Mass Spectrometry

S. A. Schwartz, I. Issac, L. A. Greene, J. R. Guthrie, and D. Gray

J Biomol Techniques, 2007 February; 18(1): 12.

PMCID: PMC2291972

P77-M Automated Analysis of Gel-Derived Phosphoproteins Using the Investigator Proteomic System

D. A. Moraga, M. C. Chow, I. Isaac, and S. M. Stevens, Jr.

J Biomol Techniques, 2007 February; 18(1): 26.

PMCID: PMC2292004

P187-S Differential Proteome Analysis of the Cerebrospinal Fluid of Normal and Equine Protozoal Myeloencephalitis Affected Horses Using Two-Dimensional Fluorescence Difference Gel Electrophoresis and Mass Spectrometry

D. E. Terry, M. Levy, I. Isaac, and N. Sharma

J Biomol Techniques, February 2007; 18(1): 65.

PMCID: PMC2291949

Identification of Proteomic Changes during Differentiation of Adult Mouse Subventricular Zone Progenitor Cells.

Kamran Salim, Paul C. Guest, Heather A. Skynner, James G. Bilsland, Timothy P. Bonnert, George McAllister, Ignacio Munoz-Sanjuan.

Stem Cells and Development, March 2007; 16(1): 143-166.

Proteomics of *Medicago truncatula*.

Satish Nagaraj, Zhentian Lei, Bonnie Watson, Lloyd Sumner, Karine Gallardo, Eliane Dumas-Gaudot, Ghislaine Recorbet, Frank Robert, Odile Thiery, Benoît Valot, Ulrike Mathesius, Karsten Oelkers

In: *Medicago truncatula* Handbook, Version March 2007; p.1-59.

<https://www.noble.org/MedicagoHandbook/pdf/Proteomics.pdf>

Neuroproteomic Analysis of Chronic Methamphetamine Treatment in Rat Cortex

F Kobeissy, JL Cadet, D Graham, I Isaac, N Sharma, M. Chow, N. Boyle, M. S. Gold, K. K. K. Wang.

Abstract, 55 th ASMS Conference Proceedings, 2007.

Neurogenesis and major depression: implications from proteomic analyses of hippocampal proteins in a rat depression model

Jun Mu, Peng Xie, Ze-Song Yang, De-Lan Yang, Fa-Jin Lv, Tian-You Luo and Yong Li
Neuroscience Letters, April 2007; 416(3): 252-256

The murine plasma protein response to polymicrobial intra-abdominal sepsis.

Jonathan E. McDunn, R. Reid Townsend, J. Perren Cobb

Proteomics- Clinical Applications, April 2007; 1(4): 373–386

Pulmonary Biomarkers Based on Alterations in Protein Expression after Exposure to Arsenic

R. Clark Lantz, Brandon J. Lynch, Scott Boitano, Gerald S. Poplin, Sally Littau, George Tsaprailis, and Jefferey L. Burgess

Environ Health Perspectives, April 2007; 115(4): 586-59

Manganese Porphyrin Reduces Renal Injury and Mitochondrial Damage during Ischemia Reperfusion.

Hamida Saba, Ines Batinic-Haberle, Shankar Munusamy, Tanecia Mitchell, Cheryl Lichti, Judit Megyesi, and Lee Ann MacMillan-Crow

Free Radic Biol Medicine, 15 May 2007; 42(10): 1571–1578

PMCID: PMC1924492

New pleiotropic effects of eliminating a rare tRNA from *Streptomyces coelicolor*, revealed by combined proteomic and transcriptomic analysis of liquid cultures.

Andy Hesketh, Giselda Bucca, Emma Laing, Fiona Flett, Graham Hotchkiss, Colin P Smith, and Keith F Chater

BMC Genomics. 2 August 2007; 8: 261. PMCID: PMC2000904

Searchable High-Resolution 2D Gel Proteome of the Human Colon Crypt.

Bhavinkumar B. Patel, Xin-Ming Li, Maketa P. Dixon, Elena L. Blagoi, Steven H. Seeholzer, Yibai Chen, C. Glenn Miller, Yin A. He, Mazell Tetrushvily, Anam H. Chaudhry, Eileen Ke, Joan Xie, Harry Cooper, Alfonso Bellacosa, Margie L. Clapper, Bruce M. Boman, Tao Zhang, Samuel Litwin, Eric A. Ross, Peggy Conrad, James A. Crowell, Levy Kopelovich, Alfred Knudson, and Anthony T. Yeung

J Proteome Research, June 2007; 6(6): 2232-2238.

Proteome analysis of the Atlantic salmon (*Salmo salar*) cell line SHK-1 following recombinant IFN- stimulation.

Samuel A. M. Martin, Bimal P. Mohanty, Phillip Cash, Dominic F. Houlihan, Christopher J. Secombes

Proteomics, June 2007, 7(13): 2275 – 2286

Proteome analysis of chemically induced mouse liver tumors with different genotype.

Julia Strathmann, Krisztina Paal, Carina Ittrich, Eberhard Krause, Klaus E. Appel, Howard P. Glauert, Albrecht Buchmann, Michael Schwarz
Proteomics, September 2007; 7(18): 3318 - 3331

The salivary glands and saliva of *Anopheles gambiae* as an essential step in the *Plasmodium* life cycle: A global proteomic study

Valérie Choumet, Annick Carmi-Leroy, Christine Laurent, Pascal Lenormand, Jean-Claude Rousselle, Abdelkader Namane, Charles Roth, Paul T. Brey
Proteomics, September 2007; 7(18): 3384-3394

14-3-3 Proteins Within the Hypothalamic-Neurohypophyseal System of the Osmotically Stressed Rat: Transcriptomic and Proteomic Studies.

S. S. Gouraud, S. T. Yao, K. J. Heesom, J. F. R. Paton, D. Murphy
Journal of Neuroendocrinology, November 2007; 19(11): 913–922,

Identification and validation of novel CSF biomarkers for early stages of Alzheimer's disease.

Yan Hu, Ava Hosseini, John S. K. Kauwe, Julia Gross, Nigel J. Cairns, Alison M. Goate, Anne M. Fagan, R. Reid Townsend, David M. Holtzman
Proteomics- Clinical Applications, November 2007; 1(11): 1373–1384

Towards a global analysis of porcine alveolar macrophages proteins through two-dimensional electrophoresis and mass spectrometry.

Eva Pérez-Reinado, María Ramírez-Boo, Juan J. Garrido, Jesús V. Jorrín, Ángela Moreno
Developmental & Comparative Immunology, December 2007; 31(12): 1220-1232

2D Gel Proteomics An Approach to Study Age-Related Differences in Protein Abundance or Isoform Complexity in Biological Samples

Helen Kim, Shannon Eliuk, Jessy Deshane, Sreelatha Meleth, Todd Sanderson, Anita Pinner, Gloria Robinson, Landon Wilson, Marion Kirk and Stephen Barnes
Methods in Molecular Biology, Biological Aging, 2007; 371: 349-391

Proteomic Data Exchange and Storage Using Proteios.

Per Gärdén and Rikard Alm
In: *Methods in Molecular Biology, 1, Mass Spectrometry Data Analysis in Proteomics*, 2007; 367: 241-259

2006

Detection of gender differences in rat lens proteins using 2-D-DIGE.

Paul C. Guest Dr., Heather A. Skynner, Kamran Salim, F. David Tattersall, Michael R. Knowles, John R. Atack

Proteomics, January 2006; 6(2): 667–676

High Throughput Protein Identification Using 2-Dimensional Difference Gel Electrophoresis and Robotic Spot Picking for Aluminum Tolerance-Related Maize Root Tip Proteins

Thannhauser, Theodore; Yang, Yong; Zhang, S.; Sherwood, Robert; Isaac, Issa
Journal of American Society for Mass Spectrometry January 2006; 17(1): 46

Growth-induced changes in the proteome of *Helicobacter pylori*.

Christina Uwins, Christian Deitrich, Evelyn Argo, Elizabeth Stewart, Ian Davidson, Phil Cash
Electrophoresis, March 2006; 27(5-6): 1136-1146

Defining the Role of the *Escherichia coli* Chaperone SecB Using Comparative Proteomics

Louise Baars, A. Jimmy Ytterberg, David Drew, Samuel Wagner, Claudia Thilo, Klaas Jan van Wijk, and Jan-Willem de Gier
J. Biol. Chem., 14 April 2006; 281(15): 10024-10034

Analysis of porcine peripheral blood mononuclear cells proteome by 2-DE and MS: Analytical and biological variability in the protein expression level and protein identification

María Ramirez-Boo, Juan J. Garrido, Samuel Ogueta, Juan J. Calvete, Consuelo Gómez-Díaz, Ángela Moreno
Proteomics, April 2006; 6(Suppl.1): S215-S225

Proteome of amyloplasts isolated from developing wheat endosperm presents evidence of broad metabolic capability

Yves Balmer, William H Vensel, Frances M DuPont, Bob B Buchanan and William J Hurkman
Journal of Experimental Botany, April 2006; 57(7): 1591-1602

Urinary β_2 -Microglobulin Is Associated With Acute Renal Allograft Rejection

William S. Oetting, Tyson B. Rogers, Thomas P. Krick, Arthur J. Matas, Hassan N. Ibrahim
American Journal of Kidney Diseases, May 2006, 47(5): 898-904

Functional analysis of the nuclear proteome of human A549 alveolar epithelial cells by HPLC-high resolution 2-D gel electrophoresis.

Jeffery Forbus, Heidi Spratt, John Wiktorowicz, Zheng Wu, Istvan Boldogh, Larry Denner, Alexander Kurosky, Robert C. Brasier, Bruce Luxon, Allan R. Brasier
Proteomics, May 2006; 6(9): 2656 – 2672 (ProPic and ProPrep)

Proteome analysis of the phenotypic variation process in *Photobacterium luminescens*.

Evelyne Turlin, Géraldine Pascal, Jean-Claude Rousselle, Pascal Lenormand, Saravuth Ngo, Antoine Danchin, Sylviane Derzelle
Proteomics, May 2006; 6(9): 2705-2725

Lipopolysaccharide-responsive phosphoproteins in *Nicotiana tabacum* cells

I.B. Gerber, K. Laukens, E. Witters and I.A. Dubery
Plant Physiology and Biochemistry, May-June 2006; 44(5-6): 369-379

Comparative Proteome Analysis of Laboratory Grown *Brucella abortus* 2308 and *Brucella melitensis* 16M.

Michel Eschenbrenner, Troy A. Horn, Mary Ann Wagner, Cesar V. Mujer, Tabbi L. Miller-Scandle, and Vito G. DelVecchio
J. Proteome Research, July 2006, 5 (7): 1731–1740

[Proteomic analysis identifies alterations in cellular morphology and cell death pathways in mouse brain after chronic corticosterone treatment.](#)

Heather A. Skynner, Doran P. Amos, Fraser Murray, Kamran Salim, Michael R. Knowles, Ignacio Munoz-Sanjuan, Luis M. Camargo, Timothy P. Bonnert and Paul C. Guest
Brain Research, 2 August 2006; 1102(1): 12-26

[Identification of Early Proteomic Markers for Hepatic Steatosis.](#)

G. Meneses-Lorente, A. Watt, K. Salim, S. J. Gaskell, Nagaraja Muniappa, Jeffrey Lawrence, and P. C. Guest
Chem. Res. Toxicology, August 2006; 19(8): 986–998

[Changes in protein expression in the rat medial vestibular nuclei during vestibular compensation](#)

Janet M Paterson, Duncan Short, Peter W Flatman, Jonathan R Seckl, Alastair Aitken, and Mayank B Dutia
J Physiology, 15 September 2006; 575(3): 777–788. Published online 2006 July 6.

[An integrated proteomic workflow for two-dimensional differential gel electrophoresis and robotic spot picking.](#)

Ryan C. Mahnke, Todd H. Corzett, Sandra L. McCutchen-Maloney, and Brett A. Chromy.
J Proteome Research, September 2006; 5(9):2093-2097

[Comparative proteomic analysis of two *Entamoeba histolytica* strains with different virulence phenotypes identifies peroxiredoxin as an important component of amoebic virulence](#)

Paul H. Davis, Xiaochun Zhang, Jianhua Guo, R. Reid Townsend and Samuel L. Stanley, Jr
Molecular Microbiology, September 2006; 61(6): 1523-1532

[Proteomic Studies of the Intrinsically Unstructured Mammalian Proteome.](#)

Charles A. Galea, Vishwajeeth R. Pagala, John C. Obenauer, Cheon-Gil Park, Clive A. Slaughter, and Richard W. Kriwacki
J. Proteome Research, October 2006; 5(10): 2839–2848

[Viability](#)

Inventors: Antoni Ryszard Slabas, Stephen Chivasa, Bongani Kaiser Ndimba, Keith Lindsey,
Patent Application Publication: US 2006/0265776 A1, Pub. Date: 23 November 2006

[An Initial Proteomic Analysis of Human Preterm Labor: Placental Membranes.](#)

R. Hussain Butt, Maggie W. Y. Lee, S. Ahmadi Pirshahid, Peter S. Backlund, Stephen Wood, and Jens R. Coorsen
J. Proteome Research, November 2006; 5(11): 3161–3172

[Hexadecanedionic Acid–Sepharose 4B: A New Tool for Preparation of Albumin-Depleted Plasma.](#)

Vukic Soskic, Gerhard Schwall, Elke Nyakatura, Slobodan Poznanovic, Werner Stegmann, and Andre Schrattenholz
J. Proteome Reseach, December 2006; 5(12): 3453–3458

2005

Differential signatures of protein expression in marmoset liver and thymus induced by single-dose TCDD treatment.

Axel Oberemm, Christine Meckert, Linda Brandenburge^a, Andrea Herzig, Yvonne Lindner, Kareen Kalenberg, Eberhard Krause, Carina Ittrich, Annette Kopp-Schneider, Ralf Stahlmann, Hans-Bernhard Richter-Reichhelm and Ursula Gundert-Remy
Toxicology, 5 January 2005; 206(1): 33-48

Evolution of tissue-specific keratins as deduced from novel cDNA sequences of the lungfish *Protopterus aethiopicus*.

Michael Schaffeld, Miriam Bremer, Christian Hunzinger, Jürgen Markl
European Journal of Cell Biology, 9 March 2005; 84(2-3): 363-377

Application of Isotope Coded Affinity Tag (ICAT) Analysis for the Identification of Differentially Expressed Proteins Following Infection of Atlantic Salmon (*Salmo salar*) with Infectious Hematopoietic Necrosis Virus (IHNV) or *Renibacterium salmoninarum* (BKD).

Booy A.T., J. D. Haddow, L. B. Ohlund, D. B. Hardie, and R. W. Olafson
J. Proteome Research, March-April 2005; 4 (2): 325–334

Evidence that the Essential Response Regulator YycF in *Streptococcus pneumoniae* Modulates Expression of Fatty Acid Biosynthesis Genes and Alters Membrane Composition

M. Luz Mohedano, Karin Overweg, Alicia de la Fuente, Mark Reuter, Silvia Altabe, Francis Mulholland, Diego de Mendoza, Paloma López, and Jerry M. Wells
J. Bacteriology, April 2005; 187(7): 2357–2367. PMCID: PMC1065234

An Unbiased Cell Morphology–Based Screen for New, Biologically Active Small Molecules

Masahiro Tanaka, Raynard Bateman, Daniel Rauh, Eugeni Vaisberg, Shyam Ramachandani, Chao Zhang, Kirk C Hansen, Alma L Burlingame, Jay K Trautman, Kevan M Shokat, Cynthia L Adams
PLoS Biology, May 2005; 3(5): e128. Published online 2005 April 5. PMCID: PMC1073692

Changes in the Extracellular Proteome Caused by the Absence of the *bldA* Gene Product, a Developmentally Significant tRNA, Reveal a New Target for the Pleiotropic Regulator AdpA in *Streptomyces coelicolor*

Dae-Wi Kim, Keith Chater, Kye-Joon Lee, and Andy Hesketh
J Bacteriology, May 2005; 187(9): 2957–2966. PMCID: PMC1082842

Identification of midgut proteins that are differentially expressed in trypanosome-susceptible and normal tsetse flies (*Glossina morsitans morsitans*)

J.D. Haddow, L.R. Haines, R.H. Gooding, R.W. Olafson, T.W. Pearson
Insect Biochemistry and Molecular Biology, May 2005, 35(5): 425-433

[Identification of mouse brain proteins associated with isoform 3 of metallothionein](#)

David W. Lahti, John D. Hoekman, Abigail M. Tokheim, Bruce L. Martin, and Ian M. Armitage
Protein Science, May 2005; 14(5): 1151–1157. PMID: PMC2253260

[Proteomic changes associated with inactivation of the *Candida glabrata* ACE2 virulence-moderating gene.](#)

David Stead, Helen Findon, Zhikang Yin, Janet Walker, Laura Selway, Philip Cash, Bernard A. Dujon, Christophe Hennequin, Alistair J. P. Brown, Ken Haynes
Proteomics, May 2005; 5(7): 1838–1848

[Postfractionation for Enhanced Proteomic Analyses: Routine Electrophoretic Methods Increase the Resolution of Standard 2D-PAGE.](#)

R. Hussain Butt and Jens R. Coorssen
J. Proteome Research, May-June 2005; 4 (3): 982–991

[Use of substances for treating tumors.](#)

Inventors: Michael Cahill, D-Loerzweiler; Wjciech Wozny, Nieder-Olm; Andre Schratzenholz; Helmut Klocker; Hermann Rogatsch (used Flexis)
Patent Application Publication: US 2005/0130876; Publication Date: June 16, 2005.

[Comparative Secretome Analyses of Three *Bacillus anthracis* Strains with Variant Plasmid Contents.](#)

Janine M. Lamonica, MaryAnn Wagner, Michel Eschenbrenner, Leanne E. Williams, Tabbi L. Miller, Guy Patra, and Vito G. DelVecchio
Infect Immunity, June 2005; 73(6): 3646–3658.

[CLPM: A Cross-Linked Peptide Mapping Algorithm for Mass Spectrometric Analysis](#)

Yong Tang, Yingfeng Chen, Cheryl F Lichti, Roger A Hall, Kevin D Raney, and Steven F Jennings
BMC Bioinformatics, 15 July 2005; 6(Suppl 2): S9. PMID: PMC1637035

[DAP12 \(KARAP\) amplifies inflammation and increases mortality from endotoxemia and septic peritonitis](#)

Isaiah R. Turnbull, Jonathan E. McDunn, Toshiyuki Takai, R. Reid Townsend, J. Perren Cobb, and Marco Colonna
J Exp Medicine, 1 August 2005; 202(3): 363–369. PMID: PMC2213081

[WW Domains Provide a Platform for the Assembly of Multiprotein Networks](#)

Robert J. Ingham, Karen Colwill, Caley Howard, Sabine Dettwiler, Caesar S. H. Lim, Joanna Yu, Kadija Hersi, Judith Raaijmakers, Gerald Gish, Geraldine Mbamalu, Lorne Taylor, Benny Yeung, Galina Vassilovski, Manish Amin, Fu Chen, Liudmila Matskova, Gösta Winberg, Ingemar Ernberg, Rune Linding, Paul O'Donnell, Andrei Starostine, Walter Keller, Pavel Metalnikov, Chris Stark, and Tony Pawson
Mol Cell Biology, August 2005; 25(16): 7092–7106. PMID: PMC1190255

[Proteomic Analysis of Head and Neck Squamous Cell Carcinomas](#)

B. Herr, M. Beachamp, M.W. Lingen
Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology, August 2005; 100(2): 191

Effects of growth phase and the developmentally significant *bldA*-specified tRNA on the membrane-associated proteome of *Streptomyces coelicolor*.

Dae-Wi Kim, Keith F. Chater, Kye-Joon Lee and Andy Hesketh
Microbiology, August 2005; 151(8): 2707-2720

Changes in the rRNA levels of specific microbial groups in activated sludge during sample handling and storage.

J.E. Keith, J.G. Boyer, F.L. de los Reyes III
Letters in Applied Microbiology, August 2005; 41(2): 208–215

32-31. Automation of In-gel Digestion and MALDI Spotting of Two-dimensional Electrophoresis Separated Rat Liver Proteins

K. Tenz, R. Steenvoorden, E. Krause, K. Paal1, and A. Oberemm
Molecular & Cellular Proteomics, August 2005, Human Proteome Organisation, 4th Annual World Congress, August 28–September 1, 2005, Munich, Abstract 32.31. S310

Seeing (and picking) spots.

Katie Cottingham
Analytical Chemistry, 1 October 2005, 77(19): pp 395 A–399 A

Functional Differentiation of Bundle Sheath and Mesophyll Maize Chloroplasts Determined by Comparative Proteomics.

Wojciech Majeran, Yang Cai, Qi Sun, and Klaas J. van Wijk
The Plant Cell, November 2005; 17(11): 3111–3140

Comparative Proteomic Analysis of Intra- and Interindividual Variation in Human Cerebrospinal Fluid.

Yan Hu, James P. Malone, Anne M. Fagan, R. Reid Townsend and David M. Holtzman
Molecular & Cellular Proteomics, 1 December 2005; 4(12): 2000-2009

Functional Differentiation of Bundle Sheath and Mesophyll Maize Chloroplasts Determined by Comparative Proteomics

Wojciech Majeran, Yang Cai, Qi Sun, and Klaas J. van Wijk
Plant Cell. 2005 November; 17(11): 3111–3140. PMCID: PMC1276033

Proteomic Characterization of *Yersinia pestis* Virulence.

Brett A. Chromy, Megan W. Choi, Gloria A. Murphy, Arlene D. Gonzales, Chris H. Corzett, Brian C. Chang, J. Patrick Fitch, and Sandra L. McCutchen-Maloney
J Bacteriology, December 2005; 187(23): 8172–8180. PMCID: PMC1291254

Defining the Role of the *Escherichia coli* Chaperone SecB Using Comparative Proteomics.

Louise Baars, A. Jimmy Ytterberg, David Drew, Samuel Wagner, Claudia Thilo, Klaas Jan van Wijk and Jan-Willem de Gier
The Journal of Biological Chemistry, 14 April 2006; 281(15): 10024-10034.

Identification of Components of Protein Complexes.

Carol E. Parker, Maria R. Warren, David R. Loiselle, Nedyalka N. Dicheva, Cameron O. Scarlett and Christoph H. Borchers

2004

[Proteomic analysis of protein changes developing in rat hippocampus after chronic antidepressant treatment: Implications for depressive disorders and future therapies.](#)

Xavier Khawaja, Jun Xu, Jin-Jun Liang, James E. Barrett
J Neuroscience Research, 15 February 2004; 75(4): 451-460

[In-Depth Analysis of the Thylakoid Membrane Proteome of *Arabidopsis thaliana* Chloroplasts: New Proteins, New Functions, and a Plastid Proteome Database](#)

Giulia Friso, Lisa Giacomelli, A. Jimmy Ytterberg, Jean-Benoit Peltier, Andrea Rudella, Qi Sun, and Klaas J. van Wijk
Plant Cell, February 2004; 16(2): 478–499. PMCID: PMC341918

[Clp Protease Complexes from Photosynthetic and Non-photosynthetic Plastids and Mitochondria of Plants, Their Predicted Three-dimensional Structures, and Functional Implications.](#)

Jean-Benoît Peltier, Daniel R. Ripoll, Giulia Friso, Andrea Rudella, Yang Cai, Jimmy Ytterberg, Lisa Giacomelli, Jaroslaw Pillardy and Klaas J. van Wijk
The Journal of Biological Chemistry, 6 February 2004; 279(6): 4768-4781.

[Protein Profiling using Two-Dimensional Gel Electrophoresis with Multiple Fluorescent Tags](#)

William A. Hanlon, Patrick R. Griffin

In: *Proteome Analysis, Interpreting the Genome*. David W. Speicher Ed., Elsevier, March 2004, pp. 75-91

[Pro-apoptotic Proteins Released from the Mitochondria Regulate the Protein Composition and Caspase-processing Activity of the Native Apaf-1/Caspase-9 Apoptosome Complex](#)

Davina Twiddy, David G. Brown, Colin Adrain, Rebekah Jukes, Seamus J. Martin, Gerald M. Cohen, Marion MacFarlane, and Kelvin Cain
J. Biol. Chemistry, 7 May 2004, 279(19): 19665-19682.

[Structure based and combinatorially selected oligonucleoside phosphoro-thioate and phosphorodithioate aptamer targeting ap-1 transcription factors.](#)

Inventors: David G. Gorenstein, Bruce A. Luxon, James Leary

US Patent Publication number: US 2004/0265912 A1, Filing date: May 20, 2004;

[A Proteomic Investigation of Drug-Induced Steatosis in Rat Liver.](#)

Georgina Meneses-Lorente, Paul C. Guest, Jeffrey Lawrence, Nagaraja Muniappa, Michael R. Knowles, Heather A. Skynner, Kamran Salim, Ileana Cristea, Russell Mortishire-Smith, Simon J. Gaskell, and Alan Watt

Chem. Research in Toxicology, May 2004, 17 (5): 605–612

[Protein profiling using two-dimensional gel electrophoresis with multiple fluorescent tags](#)

William A. Hanlon and Patrick R. Griffin

In: *Proteome analysis: interpreting the genome* David W. Speicher, Ed., Elsevier Amsterdam-San Diego, May 2004; pp. 75-92

High-throughput peptide mass fingerprinting of soybean seed proteins: automated workflow and utility of UniGene expressed sequence tag databases for protein identification

Brian P Mooney, Jay J Thelen

Phytochemistry, June 2004, 65(12): 1733-1744

Proteomic characterization of host response to *Yersinia pestis* and near neighbors.

Brett A Chromy, Julie Perkins, Jenny L Heidbrink, Arlene D Gonzales, Gloria A Murphy, J.Patrick Fitch, Sandra L McCutchen-Maloney

Biochemical and Biophysical Research Communications, 23 July 2004, 320(2): 474-479

Analyzing Alkaline Proteins in Human Colon Crypt Proteome.

Xin-Ming Li, Bhavinkumar B. Patel, Elena L. Blagoi, Maketa D. Patterson, Steven H. Seeholzer, Tao Zhang, Shirish Damle, Zhenqiang Gao, Bruce Boman, and Anthony T. Yeung

J Proteome Research, July-August 2004; 3(4): 821-833.

Proteomic response to amino acid starvation in *Candida albicans* & *Saccharomyces cerevisiae*

Zhikang Yin, David Stead, Laura Selway, Janet Walker, Isabel Riba-Garcia, Tracey McInerney, Simon Gaskell, Stephen G. Oliver, Philip Cash, Alistair J. P. Brown

Proteomics, August 2004; 4(8): 2425-2436

Regulation of Casein Kinase-2 (CK2) Activity by Inositol Phosphates.

Lev Solyakov, Kelvin Cain, Beryl M. Tracey, Rebekah Jukes, Andrew M. Riley, Barry V. L. Potter, and Andrew B. Tobin

J. Biol. Chemistry, October 15, 2004, 279(42): 43403-43410

Nuclear Heat Shock Response and Novel Nuclear Domain 10 Reorganization in Respiratory Syncytial Virus-Infected A549 Cells Identified by High-Resolution Two-Dimensional Gel Electrophoresis

Allan R. Brasier, Heidi Spratt, Zheng Wu, Istvan Boldogh, Yuhong Zhang, Roberto P. Garofalo, Antonella Casola, Jawad Pashmi, Anthony Haag, Bruce Luxon, and Alexander Kurosky

J Virology, November 2004; 78(21): 11461-11476.

<http://www.ncbi.nlm.nih.gov/pmc/articles/PMC523268/>

Increasing Throughput and Data Quality for Proteomics.

Alfred L. Gaertner, Nicole L. Chow, Beth G. Fryksdale, Paul Jedrzejewski, Brian S. Miller, Sigrid Paech, David L. Wong

In: *Methods in Proteome and Protein Analysis*, (Roza M. Kamp, Juna J. Calvete, Theodora Choli-Papadopoulou, Eds.) 2004, pp. 371-398. ISBN: 978-3-540-20222-6

Identification of proteins induced by polycyclic aromatic hydrocarbon in *Mycobacterium vanbaalenii* PYR-1 using two-dimensional polyacrylamide gel electrophoresis and *de novo* sequencing methods.

Seong-Jae Kim, Richard C. Jones, Chang-Jun Cha, Ohgwe Kweon, Ricky D. Edmondson, Carl E. Cerniglia

Proteomics, December 2004; 4(12): 3899-3908

2003.

[Bacillus anthracis secretome.](#)

Guy Patra, Leanne E. Williams, Kathleen G. Dwyer, Vito G. DelVecchio

In: *Applications of Genomics and Proteomics for Analysis of Bacterial Biological Warfare Agents*, IOS Press, V.G. DelVecchio & V. Krcmery Eds., January 2003; NATO Science Series, 352: 53-66

[Directions in Automated Sample Preparation of Proteins.](#)

David A. Wells and David A. Weil

LCGC, June 2003; 21(6), 522–538

[Protein abundance quantification in embryonic stem cells using incomplete metabolic labelling with ¹⁵N amino acids, matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry, and analysis of relative isotopologue abundances of peptides.](#)

Josef A. Vogt, Klaus Schroer, Kerstin Hölzer, Christian Hunzinger, Martina Klemm, Katja Biefang-Arndt, Simone Schillo, Michael A. Cahill, André Schrattenholz, Helmut Matthies, Werner Stegmann

Rapid Communications in Mass Spectrometry, 30 June 2003; 17(12): 1273–1282

[Multiplex proteomic analysis by two-dimensional differential in-gel electrophoresis.](#)

Michael R. Knowles, Sandra Cervino, Heather A. Skynner, Stephen P. Hunt, Carmen de Felipe, Kamran Salim, Georgina Meneses-Lorente, George McAllister, Paul C. Guest

Proteomics, July 2003; 3(7): 1162–1171

[Evidence from proteomics that some of the enzymes of actinorhodin biosynthesis have more than one form and may occupy distinctive cellular locations.](#)

Andrew Hesketh and Keith F. Chater

Journal of Industrial Microbiology & Biotechnology, August 2003; 30(8): 523-529

[Evidence of Chemolithoautotrophy in the Bacterial Community Associated with *Alvinella pompejana*, a Hydrothermal Vent Polychaete](#)

Barbara J. Campbell, Jeffrey L. Stein, and S. Craig Cary

Appl Environ Microbiol. 2003 September; 69(9): 5070–5078. PMID: PMC194926

[Impact of prefractionation using Gradiflow™ on two-dimensional gel electrophoresis and protein identification by matrix assisted laser desorption/ionization-time of flight-mass spectrometry.](#)

Lisa Pang, Beth G. Fryksdale, Nicole Chow, David L. Wong, Alfred L. Gaertner, Brian S. Miller
Electrophoresis, October 2003; 24(19-20): 3484-3492

[Directions in Automated Sample Preparation of Proteins.](#)

David A. Wells and David A. Weil

LC•GC Europe, November 2003; p. 2-9

[Directions in Automated Sample Preparation of Proteins.](#)

David A. Wells and David A. Weil
PharmaGenomics, November/December 2003; p. 42-54

[New on the Market: Proteomics 12/2003](#)

Proteomics, December 2003, 3(12): 2497 – 2500

2002.

[Painting with a molecular brush: Genomic/proteomic interfacing to define the drug action profile of novel solid-tumor selective anticancer agents.](#)

Alexander Nakeff, Nisha Sahay, Mike Pisano, Balanehru Subramanian
Cytometry, 1 January 2002; 47(1): 72–79

[New products for molecular biology.](#)

PerkinElmer app. scientists
Molecular Biotechnology, January 2002; 22(1): 103-109

[Proteomic analysis of the endoplasmic reticulum from developing and germinating seed of castor \(*Ricinus communis*\).](#)

Daniel J. Maltman, William J. Simon, Colin H. Wheeler, Michael J. Dunn, Robin Wait and Antoni R. Slabas
Electrophoresis, February 2002; 23(4): 626-639.

[Protein Kinase C \$\epsilon\$ Signaling Complexes Include Metabolism- and Transcription/Translation-related Proteins Complimentary Separation Techniques With LC/MS/MS*S.](#)

Ricky D. Edmondson, Thomas M. Vondriska, Kelli J. Biederman, Jun Zhang, Richard C. Jones, Yuting Zheng, David L. Allen, Joanne X. Xiu, Ernest M. Cardwell, Michael R. Pisano, Peipei Ping
Molecular & Cellular Proteomics, 1 June 2002; 1(6): 421-433.

[Impact of deglycosylation methods on two-dimensional gel electrophoresis and matrix assisted laser desorption/ionization-time of flight-mass spectrometry for proteomic analysis.](#)

Beth G. Fryksdale, Paul T. Jedrzejewski, David L. Wong, Alfred L. Gaertner, Brian S. Miller
Electrophoresis, July 2002; 23(14): 2184–2193

[Alterations of stress related proteins in genetically altered mice revealed by two-dimensional differential in-gel electrophoresis analysis.](#)

Heather A. Skeyner, Thomas W. Rosahl, Michael R. Knowles, Kamran Salim, Lee Reid, Rosa Cothliff, George McAllister, Paul C. Guest
Proteomics, August 2002; 2(8): 1018–1025

[Global analysis of the *Brucella melitensis* proteome: Identification of proteins expressed in laboratory-grown culture.](#)

Mary Ann Wagner, Michel Eschenbrenner, Troy A. Horn, Jo Ann Kraycer, Cesar V. Mujer, Sue Hagijs, Philip Elzer, Vito G. DelVecchio
Proteomics, August 2002; 2(8): 1047–1060

Comparative Proteome Analysis of *Brucella melitensis* Vaccine Strain Rev 1 and a Virulent Strain, 16M.

Michel Eschenbrenner, Mary Ann Wagner, Troy A. Horn, Jo Ann Kraycer, Cesar V. Mujer, Sue Hagijs, Philip Elzer, and Vito G. DeVecchio
J Bacteriol. 2002 September; 184(18): 4962–4970. PMCID: PMC135307

2001.

INVESTIGATOR PROPIC ROBOTIC WORKSTATION LAUNCHED

Entrepreneur, Computer Workstations, February, 2001

Product Review: Proteomics systems emerge. The first commercial products offer a variety of approaches.

Judith Handley
Anal. Chemistry, 1 July 2001; 73(13): 379 A–383 A

2-D Glasses. Scientists focus on proteomics with 2-D gel electrophoresis

The Scientist 2001, 15(7): 23

PROTEIN SPOT PICKING FROM 2D GELS FOR MASS SPECTROMETRIC ANALYSIS. Importance of image resolution and XY positioning accuracy

Klaus Herick
BIOforum, September 2001, 568-569.

The Automation of Proteomics: technical and informatic solutions for high-throughout protein analysis

M.R. Wilkins,
In: *Proteomics: From Protein Sequence to Function*. S. R. Pennington, Michael J. Dunn, Eds. Taylor & Francis Publ., 2001; pp.176-181 (citing Flexis, a prototype for ProPic from Genomic Solutions)