

# BIN DENG, Ph.D

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## PROFESSIONAL EXPERIENCE

- Research Associate Professor in the Department of Biology at the University of Vermont (UVM) and the manager of Vermont Biomedical Research Network (VBRN) Proteomics Facility (2016-present)
- Research Assistant Professor in the Department of Biology at the University of Vermont (UVM) and the manager of VBRN Proteomics Facility (2009-2016)
- Research Associate (faculty level) in the Department of Biology at UVM and the manager of VBRN Proteomics Facility (2006-2009)
- Postdoctoral Research Fellow, Public Health Science Division, Fred Hutchinson Cancer Research Center, Seattle. WA Jul., 2004 - Aug., 2006
- Postdoctoral Research Fellow, University of Michigan Medical School, Ann Arbor. MI May, 2003-Jul., 2004
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## EDUCATION

- UVM CS Certificate, Department of Computer Science, the University of Vermont, 2011-2012
- Ph.D. in Analytical Chemistry (2003), Tsinghua University, Beijing, China
- M.S. in Biochemistry (1995), Kunming Institute of Botany, Chinese Academy of Science, Kunming, China
- B.S. (1987), Southwest University of Science and Technology, Mianyang, China

## CURRENT PROJECTS/RESPONSIBILITIES

- Managing the daily operations of the UVM/VGN Proteomics Facility.
- Interacting with investigators, and providing technical and scientific support for proteomics researches at UVM and VBRN baccalaureate partner institutions.
- Training of UVM under-graduate, graduate students and postdoctoral scientists in proteomics technology.
- Developing new methods for proteomics research.

## GRANTS

- P20GM103449-14 Rex Forehand (PI) \$19.4 million 06/01/20-05/31/25  
NIH INBRE Vermont Genetics Network Renewal  
An infrastructure building grant for the state of Vermont

My role: Key person, manager of Proteomics Facility

- NIH 5R01GM054899-18 Francklyn, Christopher S (PI) \$350,096 2015-2018  
Structure and Mechanism of Class ii Aminoacyl-trna Synthetase  
My role: Key personnel, mass spec analysis of aminoacyl-tRNA synthetase and its modifications
- Canary Foundation Grant Awards Recipients for Bioinformatics Platform Dissemination. 2007  
My role: Co-PI

#### \*PUBLICATIONS (peer-reviewed articles)

1. Panzarino NJ, Krais JJ, Cong K, Peng M, Mosqueda M, Nayak SU, Bond SM, Calvo JA, Doshi MB, Bere M, Ou J, **Deng B**, Zhu LJ, Johnson N, Cantor SB. Replication Gaps Underlie BRCA-deficiency and Therapy Response. *Cancer Res.* 2020 Nov 12;canres.1602.2020. doi: 10.1158/0008-5472.CAN-20-1602. Online ahead of print. PMID: 33184108
2. Zhang F, Deng CK, Wang M, **Deng B**, Barber R, Huang G. Identification of novel alternative splicing biomarkers for breast cancer with LC/MS/MS and RNA-Seq. *BMC Bioinformatics.* 2020 Dec 3;21(Suppl 9):541. doi: 10.1186/s12859-020-03824-8. PMID: 33272210
3. Corigliano MG, Albarracín RM, Vilas JM, Sánchez López EF, Bengoa Luoni SA, **Deng B**, Farran I, Veramendi J, Maiale SJ, Sander VA, Clemente M. Heat treatment alleviates the growth and photosynthetic impairment of transplastomic plants expressing *Leishmania infantum* Hsp83-Toxoplasma gondii SAG1 fusion protein. *Plant Sci.* 2019 Jul;284:117-126. PMID: 31084864
4. Zhang F, Ding L, Cui L, Barber R, **Deng B**. Identification of long non-coding RNA-related and co-expressed mRNA biomarkers for hepatocellular carcinoma. *BMC Med Genomics.* 2019 Jan 31;12(Suppl 1):25. PMID: 30704465
5. Heppner DE, Dustin CM, Liao C, Hristova M, Veith C, Little AC, Ahlers BA, White SL, **Deng B**, Lam YW, Li J, van der Vliet A. Direct cysteine sulfenylation drives activation of the Src kinase. *Nat Commun.* 2018 Oct 30;9(1):4522. doi: 10.1038/s41467-018-06790-1. PMID: 30375386
6. Peng M, Cong K, Panzarino NJ, Nayak S, Calvo J, **Deng B**, Zhu LJ, Morocz M, Hegedus L, Haracska L, Cantor SB. Opposing Roles of FANCD1 and HLF1 Protect Forks and Restrain Replication during Stress. *Cell Rep.* 2018 Sep 18;24(12):3251-3261.
7. Wrenn SM, Griswold ED, Uhl FE, Uriarte JJ, Park HE, Coffey AL, Dearborn JS, Ahlers BA, **Deng B**, Lam YW, Huston DR, Lee PC, Wagner DE, Weiss DJ. Avian lungs: A novel scaffold for lung bioengineering. *PLoS One.* 2018 Jun 27;13(6):e0198956.
8. David E. Heppner, Christopher M. Dustin, Chenyi Liao, Milena Hristova, **Bin Deng**, Ying-Wai Lam, Jianing Li, and Albert van der Vliet. Molecular Basis for Redox Regulation of the Src Kinase. *FASEB Journal.* VOL 31. No.1 \_supplement, 2017 April
9. Li S, Diego-Limpin PA, Bajrami B, Keshipeddy S, Lam YW, **Deng B**, Farrokhi V, McShane AJ, Nemati R, Howell AR, Yao X. Scaling Proteome-Wide Reactions of Activity-Based Probes. *Anal Chem.* 2017 Jun 20;89(12):6295-6299. PMID: 28570047
10. Krishnamurthy S, **Deng B**, Del Rio R, Buchholz KR, Treeck M, Urban S, Boothroyd J, Lam YW, Ward GE. Not a Simple Tether: Binding of *Toxoplasma gondii* AMA1 to RON2 during Invasion Protects AMA1 from Rhomboid-Mediated Cleavage and Leads to Dephosphorylation of Its Cytosolic Tail. *MBio.* 2016 Sep 13;7(5). pii: e00754-16.

11. Platz J, Bonenfant NR, Uhl FE, Coffey AL, McKnight T, Parsons C, Sokocevic D, Borg ZD, Lam YW, **Deng B**, Fields JG, DeSarno M, Loi R, Hoffman AM, Bianchi J, Dacken B, Petersen T, Wagner DE, Weiss DJ. Comparative Decellularization and Recellularization of Wild-Type and Alpha 1,3 Galactosyltransferase Knockout Pig Lungs: A Model for Ex Vivo Xenogeneic Lung Bioengineering and Transplantation. *Tissue Eng Part C Methods*. 2016 Aug;22(8):725-39.
12. Caballero MC, Alonso AM, **Deng B**, Attias M, de Souza W, Corvi MM. Identification of new palmitoylated proteins in *Toxoplasma gondii*. *Biochim Biophys Acta (BBA)-Proteins and Proteomics*. 2016 Apr;1864(4):400-8.
13. Smith KP, Fields JG, Voogt RD, **Deng B**, Lam YW, Mintz KP. Alteration in abundance of specific membrane proteins of *Aggregatibacter actinomycetemcomitans* is attributed to deletion of the inner membrane protein MorC. *Proteomics*. 2015 Jun;15(11):1859-67
14. Smith KP, Fields JG, Voogt RD, **Deng B**, Lam YW, Mintz KP. The cell envelope proteome of *Aggregatibacter actinomycetemcomitans*. *Mol Oral Microbiol*. 2015 Apr;30(2):97-110
15. Tang Q, Andenmatten N, Hortua Triana MA, **Deng B**, Meissner M, Moreno SN, Ballif BA, Ward GE. Calcium-dependent phosphorylation alters class XIVa myosin function in the protozoan parasite *Toxoplasma gondii*. *Mol Biol Cell*. 2014 Sep 1;25(17):2579-91
16. Hristova M, Veith C, Habibovic A, Lam YW, **Deng B**, Geiszt M, Janssen-Heininger YM, van der Vliet A. Identification of DUOX1-dependent redox signaling through protein S-glutathionylation in airway epithelial cells. *Redox Biol*. 2014 Jan 15;2:436-46
17. Angel SO, Figueras MJ, Alomar ML, Echeverria PC, **Deng B**. *Toxoplasma gondii* Hsp90: potential roles in essential cellular processes of the parasite. *Parasitology*. 2014 Feb 21;144:1-10.
18. Wagner DE, Bonenfant NR, Parsons CS, Sokocevic D, Brooks EM, Borg ZD, Lathrop MJ, Wallis JD, Daly AB, Lam YW, **Deng B**, Desarno MJ, Ashikaga T, Loi R, Weiss DJ. Comparative decellularization and recellularization of normal versus emphysematous human lungs. *Biomaterials*. 2014 Mar; 35 (10):3281-97.
19. Wagner DE, Bonenfant NR, Sokocevic D, Desarno MJ, Borg ZD, Parsons CS, Brooks EM, Platz JJ, Khalpey ZI, Hoganson DM, **Deng B**, Lam YW, Oldinski RA, Ashikaga T, Weiss DJ. Three-dimensional scaffolds of acellular human and porcine lungs for high throughput studies of lung disease and regeneration. *Biomaterials*. 2014 Mar; 35 (9):2664-79.
20. Choi S, Aljakna A, Srivastava U, Peterson BR, **Deng B**, Prat A, Korstanje R. Decreased APOE-containing HDL subfractions and cholesterol efflux capacity of serum in mice lacking Pcsk9. *Lipids Health Dis*. 2013 Jul 24;12:112.
21. Fellows A, **Deng B**, Mierke DF, Robey RB, Nichols RC. Peptides modeled on the RGG domain of AUF1/hnRNP-D regulate 3' UTR-dependent gene expression. *Int Immunopharmacol*. 2013 Sep; 17 (1):132-41.
22. Sokocevic D, Bonenfant NR, Wagner DE, Borg ZD, Lathrop MJ, Lam YW, **Deng B**, Desarno MJ, Ashikaga T, Loi R, Hoffman AM, Weiss DJ. The effect of age and emphysematous and fibrotic injury on the re-cellularization of de-cellularized lungs. *Biomaterials*. 2013 Apr; 34(13):3256-69.
23. Bonenfant NR, Sokocevic D, Wagner DE, Borg ZD, Lathrop MJ, Lam YW, **Deng B**, Desarno MJ, Ashikaga T, Loi R, Weiss DJ. The effects of storage and sterilization on de-cellularized and re-cellularized whole lung. *Biomaterials*. 2013 Apr; 34(13):3231-45.

24. Wallis JM, Borg ZD, Daly AB, **Deng B**, Ballif B, Allen GB, Jaworski DM, Weiss D. Comparative Assessment of Detergent-Based Protocols for Mouse Lung De-Cellularization and Re-Cellularization. *Tissue Eng Part C Methods*. 2012 Jun; 18(6):420-32.
25. Daly AB, Wallis JM, Borg ZD, Bonvillain RW, **Deng B**, Baliff BA, Jaworski DM, Allen GB, Weiss D. Initial Binding and Re-Cellularization of De-Cellularized Mouse Lung Scaffolds with Bone Marrow-Derived Mesenchymal Stromal Cells. *Tissue Eng Part A*. 2012 Jan; 18(1-2):1-16.
26. Hristova M, Spiess PC, Kasahara DI, Randall MJ, **Deng B**, van der Vliet A. The Tobacco Smoke Component Acrolein Suppresses Innate Macrophage Responses by Direct Alkylation of c-Jun-N-terminal Kinase. *Am J Respir Cell Mol Biol*. 2012 Jan; 46 (1):23-33.
27. Spiess PC, **Deng B**, Hondal RJ, Matthews DE, van der Vliet A. Proteomic profiling of acrolein adducts in human lung epithelial cells. *J Proteomics*. 2011 Oct 19;74(11):2380-94
28. Minajigi A, **Deng B**, Francklyn CS. Fidelity Escape by the Unnatural Amino Acid  $\beta$ -Hydroxynorvaline: An Efficient Substrate for Escherichia coli Threonyl-tRNA Synthetase with Toxic Effects on Growth. *Biochemistry*. 2011, 50, 1101-1109.
29. Echeverria PC, Figueras MJ, Vogler M, Kriehuber T, de Miguel N, **Deng B**, Dalmaso MC, Matthews DE, Matrajt M, Haslbeck M, Buchner J, Angel SO. The Hsp90 co-chaperone p23 of Toxoplasma gondii: Identification, functional analysis and dynamic interactome determination. *Mol Biochem Parasitol*. 2010 Aug; 172(2):129-40.
30. Thornton TM, Pedraza-Alva G, **Deng B**, Wood CD, Aronshtam A, Clements JL, Sabio G, Davis RJ, Matthews DE, Doble B, Rincon M. Phosphorylation by p38 MAPK as an alternative pathway for GSK3 beta inactivation. *Science*. 2 May 2008; Vol. 320. pp. 667-670.
31. Mannová P, Fang R, Wang H, **Deng B**, McIntosh MW, Hanash SM, Beretta L. Modification of host lipid raft proteome on hepatitis C virus replication. *Mol Cell Proteomics*, Aug 2006; 5.12. 2319-2325.
32. **Deng B**, Ye N, Luo G, Chen X, Wang Y. Proteomics Analysis of Stage-specific Proteins Expressed in Human Squamous Cell Lung Carcinoma Tissues. *Cancer Biomarkers*. Volume 1, Number 6 / 2005, 279-286.
33. Misek DE, Kuick R, Wang H, Galchev V, **Deng B**, Zhao R, Tra J, Pisano MR, Amunugama R, Allen D, Walker AK, Strahler JR, Andrews P, Omenn GS, Hanash SM. Wide Range of Protein Isoforms in Serum and Plasma Uncovered by a Quantitative Intact Protein Analysis System (IPAS). *Proteomics*. 2005, Volume 5, Issue 13, Pages 3343 - 3352.
34. **Deng B**, Ye NS, Luo GA, Wang YM. Separation of tissue proteins of human lung carcinomas by partial-filling capillary electrophoresis. *J. Nanoscience and Nanotechnology*. 5 (8), 2005. 1193-98.
35. Faca V.; **Deng B**.; Phanstiel D.; et al. Identification of glycoproteins in lung adenocarcinoma cell surface. *Mol. Cell. Proteomics*, Volume: 4 Issue: 8 Supplement: 1 Pages: S109. 2005
36. Luo GA, **Deng B**, et al. Comparative proteome analysis of human squamous lung carcinomas and small cell lung carcinomas. *Chemical Journal of Chinese Universities*. 26:1645-49. Sep. 2005.
37. Qin XM, Duan MX, **Deng B**, Liu XC, Zhang QZ, Liu Z, He HX. Isolation and identification of a new thymic peptide from calf thymus. *Biochemistry (Mosc)*. 2004 Aug; 69(8): 921-925.
38. **Deng B**, Luo GA, et al. Separation of Antisense Phosphorothioate Oligonucleotides Using Capillary Electrophoresis with Liner Polyacrylamide. *Chinese Journal of Anal. Chem*. 31 (3): 353-356, 2003.
39. **Deng B**, Ru Q, Luo GA. Monitoring the Unfolding and Refolding of Creatine Kinase by Capillary Zone Electrophoresis, *J Capill Electrophor Microchip Technol*. 2003 Jan-Apr; 8 (1-2): 7-10.
40. **Deng B**, Luo GA. Recent progress on the applications of mass spectrometry and related techniques to the signal transduction. *Chinese Journal of Anal. Chem*. 31 (2): 232-238 FEB 2003. (review)

41. **Deng B**, Liu H, Wu JX, et al. Development strategy for Yunnan biopharmaceutical industrialization. *J. Yunnan University of Finance and Economics*. 2002, 4(88): 103-108.
42. **Deng B**, Liu Z, Luo G, Ma H, Duan M. Rapid quantitative determination and assessment of insulin in W/O/W formulation by micellar electrokinetic capillary chromatography. *J. Pharm. Biomed. Anal.* 2002, 27: 73-80.
43. **Deng B**, Lu JP, Yan JH. Separation of alcohol-soluble proteins from tobacco seeds by capillary zone electrophoresis. *J. Chromatogr. A* 1998, 803 (1-2): 321-327.
44. Gan FY, **Deng B**, Shen YM. The structure of an oligosaccharide and its effect on cultured plant cells. In: Advances in plant glycosides, chemistry and biology. Yang C R, Tanaka O, (eds). *Studies in plant science*, Elsevier Science Publ B V, Amsterdam. 1999, 6: 409-414.
45. Gan FY, Zheng GZ, Peng LP, Luo JP, **Deng B**. Studies on cell fermentation culture of *Taxue Yunnanensis*. *Natural Product Research and Development*. 1997, 3: 100-104
46. **Deng B**, Zheng GZ, et al. The isolation and structure characterization of the active oligosaccharides from cultured *Panax ginseng* cells. *Acta biochimica et biophysica Sinica*. 1996, 28 (6): 600-605.

#### \*PUBLICATIONS (not peer-reviewed articles)

1. **Bin Deng**. Vermont Genetics Network Proteomics Facility Has New Home. *VGN 2010 winter newsletter*.
2. **Bin Deng**, Dwight E. Matthews and Bryan A. Ballif. It takes a village to develop proteomics in Vermont. *VGN 2009 fall newsletter*.
3. **Bin Deng**, Dwight E. Matthews. Meeting Challenges in Proteomics Research. *VGN 2007 fall newsletter*.
4. **Bin Deng**. Introducing the UVM/VGN Proteomics Facility. *VGN 2007 Spring Newsletter*.

#### MANUSCRIPTS SUBMITTED OR IN PREPARATION

#### CONFERENCE AND ABSTRACTS

1. Lei Wang; Louis P. Riel; Bekim Bajrami; **Bin Deng**; Amy R. Howell; Xudong Yao. Chemical probe with  $\alpha$ -methylene- $\beta$ -lactone warhead labeling diverse classes of enzymes. 68th ASMS Conference on Mass Spectrometry and Allied Topics. May 31 - June 4, 2020. Houston, TX (online)
2. Ying Wai Lam, **Bin Deng**, and Catrina Hood. Vermont Genetics Network Proteomics Facility (ABRF 2019). *J Biomol Tech*. 2019 Dec; 30(Suppl): S41. PMID: PMC6938049
3. Ying Wai Lam, **Bin Deng**, and Catrina Hood. Vermont Genetics Network Proteomics Facility. North East Regional IDeA Conference (NERIC). August 14-16,2019, Bretton Woods, NH
4. **Bin Deng**. Applications of Matlab in Proteome Data Visualization and Simulation of Protein Function Research. The 7th Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE). June 24-26, 2018. Washington, D.C.
5. Lei Wang; Christopher Dietz; Feifei Zhou; Mohsen Erfanzadeh; **Bin Deng**; Quing Zhu; Michael Smith; Xudong Yao. Identification of a protein target highly specific to 2-nitroimidazole-indocyanine green for imaging tumor hypoxia. 66th Conference on Mass Spectrometry and Allied Topics .June 3 - 7, 2018. San Diego, CA

6. **Bin Deng**. Evaluation of different Proteomics Search Engines for Peptide and Protein Identification. Association of Biomolecular Resource Facilities (ABRF 2018). April 22 - 25, 2018. Myrtle Beach, SC
7. Franziska E Uhl, Barbora Zvarova, Bethany A Ahlers, Catrina M Hood, **Bin Deng**, Ying Wai Lam, Erica Beatman, Kelly S. Schweitzer, Irina Petrache, Daniel J Weiss, Darcy E Wagner. Characterization of decellularized COPD lung matrices using mass spectrometry proteomics. 16th ERS Lung Science Conference. March 8-11, 2018 Estoril, Portugal
8. Sean M. Wrenn, Ethan D. Griswold, Franziska E. Uhl, Juan J. Uriarte, Hee Eon Park, Amy L. Coffey, Jacob S. Dearborn, R.J. Hommel, Ying-Wai Lam, **Bin Deng**, Bethany A. Ahlers, Patrick C. Lee, Dryver R. Huston, Darcy E. Wagner, Daniel J. Weiss. Lung bioengineering using avian tissue. Stem Cell Conference, July 24-27, 2017. Burlington, VT
9. **Deng B**. Optimization of collision energy for protein analysis in the Q-Exactive mass spectrometer associated with Matlab - an engineer problem-solving program. North East Regional IDEa Conference (NERIC 2017). August 16-18, 2017, Burlington, VT
10. Krishnamurthy S, **Deng B**, Del Rio R, Buchholz KR, Treeck M, Urban S, Boothroyd J, Lam YW, Ward GE. Dephosphorylation of AMA1 cytosolic tail during *Toxoplasma gondii* Invasion. 65th ASMS Conference on Mass Spectrometry and Allied Topics. June 4 - 8, 2017, Indianapolis, IN
11. Krishnamurthy S, **Deng B**, Del Rio R, Buchholz KR, Treeck M, Urban S, Boothroyd J, Lam YW, Ward GE. Not a Simple Tether: Binding of *Toxoplasma gondii* AMA1 to RON2 during Invasion Protects AMA1 from Rhomboid-Mediated Cleavage and Leads to Dephosphorylation of Its Cytosolic Tail. 27th Annual Molecular Parasitology Meeting. September 18-22 2016, Woods Hole, MA
12. **Deng B**, Ahlers B, Lam YW. Driving to a Sustainable Proteomics Core Facility. The 6th Biennial NIH/NIGMS National IDEa Symposium of Biomedical Research Excellence (NISBRE). June 26-28, 2016. Washington, DC
13. **Bin Deng**, Marina C. Caballero, Andrés M. Alonso, Marcia Attias, Wanderley de Souza, María M. Corvi. Proteomics Analysis of *Toxoplasma gondii* Palmitoylated Proteins and its Impact on Rhopty Localization. 64th ASMS Conference on Mass Spectrometry and Allied Topics. June 5 - 9, 2016, San Antonio, TX
14. Uhl, F., Costa, R., Zvarova, B., Fields, J.G., **Deng, B.**, Lam, Y.W., Königshoff, M., Weiss, D.J. and Wagner, D.E. Acellular emphysematous lungs retain pathophysiological attributes and can be used as a novel in vitro culture system for studying disease biology. German Lung Center (DZL) 2016 conference.
15. Uhl, F., Zvarova, B., Fields, J., **Deng, B.**, Lam, Y.W., Weiss, D. and Wagner, D. Enhanced mass spectrometry proteomics can be used to distinguish differences in protein compositions of acellular emphysematous versus normal lungs. American Thoracic Conference 2016 in San Francisco, CA (May 13-18, 2016)
16. Franziska E Uhl, Basa Zvarova, Julia Ganister Fields, **Bin Deng**, Ying Wai Lam, Daniel J Weiss, Darcy E Wagner. Enhanced mass spectrometry proteomics can be used to distinguish differences in protein compositions of acellular emphysematous versus normal lungs. Northeast Regional Life Sciences Core Directors (NERLSCD) 2015. October 14-16, 2015, Burlington, VT
17. Lam YW, **Deng B**, Fields J. Growing Success- Vermont Genetics Network Proteomics Facility. Northeast Regional Life Sciences Core Directors (NERLSCD) 2015. October 14-16, 2015, Burlington, VT

18. Fields J; Lam YW; **Deng B**; Smith K; Voogt R; Mintz K. Quantification of the membrane differential proteomes by stable isotope labeling. Northeast Regional Life Sciences Core Directors (NERLSCD) 2015. October 14-16, 2015, Burlington, VT
19. Vincent, J., Hunter, T., Murray, J., Driscoll, H., **Deng, B.**, Lam, Y.W. and Van Houten, J. Highlights of the Vermont Genetics Network. 6th Northeast Regional IDeA Meeting in Bar Harbor, ME (Sept 24-26, 2015)
20. **Bin Deng**. "VGN Proteomics Facility in Research". VGN Retreat, August 12th, 2015, Burlington, VT
21. Ying Wai Lam; **Bin Deng**; Julia Fields; Kenneth Smith; Richard Voogt; Keith Mintz. Quantification of the membrane differential proteomes by stable isotope labeling and spectral counting strategies. 63rd ASMS Conference on Mass Spectrometry and Allied Topics. May 31 - June 4, 2015, St. Louis, Missouri
22. Abbott, J. **Deng, B.**, Lam, Y.W., Francklyn, C.S. and Robey-Bond, S. The Role of Human Histidyl-tRNA Synthetase Mutations in Human Diseases, Type IIIB Usher Syndrome and Peripheral Neuropathy RNA Metabolism in Neurological Disease Conference (8th Brain Research Conference) in San Diego (Nov. 7-8, 2013)
23. Fields J., **Deng, B.** and Lam, Y.W. Growing Success in the Vermont Genetics Network Proteomics Facility. 5th Northeast Regional IDeA Meeting, Delaware (Aug 21-23, 2013)
24. Fields J., **Deng, B.** and Lam, Y.W. Proteomics at UVM. Dartmouth Shared Resources Fair. Dartmouth College, NH (Oct 9, 2013) (Regional)
25. Song Li; Pamela Diego1; Santosh Keshipeddy; Bekim Bajrami; Vahid Farrokhi; Adam McShane; Ying Wai Lam; **Bin Deng**; Reza Nemati; Amy Howell; Xudong Yao. High-throughput Scheduled MRM for Multiplexed Quantitation of Chemical Probe Labeled Enzymes in Human Cells. 61st ASMS Conference on Mass Spectrometry and Allied Topics June 9 - 13, 2013, Minneapolis, MN
26. Song Li, Santosh Kumar Keshipeddy; **Bin Deng**, Ying Wai Lam, Pamela Ann Diego; Bekim Bajrami; Adam Mcshane; Amy Ruth Howell; Xudong Yao. Using Chemical Probes and Multiple Reaction Monitoring Mass Spectrometry for Monitoring Multiple Enzymes in Human Cells. 60th ASMS Conference on Mass Spectrometry and Allied Topics, May 20-24, 2012, Vancouver, Canada
27. Ujala Srivastava, Daniela Kamir, **Bin Deng**, Blake R. Peterson and Ron Korstanje. Characterization and comparison of High Density Lipoprotein Subclasses among Inbred Strains of Mice. American Heart Association (ATVB2012) Conference. April 18, 2012 Chicago, IL
28. Seungbum Choi, Ujala Srivastava, Aleksandra Aljakna, **Bin Deng**, Blake R. Peterson and Ron Korstanje. Decreased macrophage cholesterol efflux capacity of serum in mice lacking proprotein convertase subtilisin/kexin type 9. American Heart Association (ATVB2012) Conference. April 18, 2012 Chicago, IL
29. **Bin Deng**, Ying Wai Lam. Growing success in the vermont genetics network proteomics facility. 4th Northeast Regional IDeA Meeting, August 10 – 12, 2011,Salve Regina University, Newport, RI
30. Anand Minajigi, **Bin Deng**, and Christopher S. Francklyn Characterization of Protein Thioredoxin Incorporated with the Unnatural Amino Acid  $\beta$ -hydroxynorvaline by Escherichia coli Threonyl-tRNA synthetase. 59th ASMS Conference on Mass Spectrometry and Allied Topics. June 5 - 9, 2011. Denver, CO (International)
31. Spiess, PC; **Deng, B**; Matthews, DE; van der Vile. Global Proteomics Analysis of Acrolein Adducts in Human Airway Epithelial Cells in Vitro. *FREE RADICAL BIOLOGY AND MEDICINE*. Volume: 49 Supplement: 1 Pages: S89-S89, 2010
32. **Bin Deng**, Dwight E Matthews, Bryan A Ballif. Growing Success in the Vermont Genetics Network Proteomics Facility. The fifth annual Northeast Regional Life Sciences Core Directors (NERLSCD)

- meeting October 27-29, 2010, University of Massachusetts Medical School in Worcester, Massachusetts (regional)
33. Page C. Spiess, **Bin Deng**, Robert J. Hondal, Matthew J. Randall, Dwight E. Matthews, and Albert van der Vliet. Use of a proteomics method to detect acrolein adduction: effects on redox proteins in human airway epithelial cells. 58th ASMS Conference on Mass Spectrometry and Allied Topics. Salt Lake City, Utah. May 23 - 27, 2010 (International)
  34. **Bin Deng**, Dwight E Matthews, Bryan A Ballif. Translating Basic Research with Advances in Biomolecular Technology. ABRF 2010, Sacramento, California. March 20-23, 2010 (national)
  35. Spiess, PC; **Deng, B**; Hondal, RJ; Randall, MJ; Matthews, DE; van der Vliet, Use of a Proteomics Method to Detect Acrolein Adduction: Effects on Redox Proteins in Human Airway Epithelial Cells. *FREE RADICAL BIOLOGY AND MEDICINE*. Volume: 47 Pages: S184-S184 Published: 2009
  36. **Bin Deng**, Dwight E Matthews, Bryan A Ballif. The Establishment and Growth of the Vermont Genetics Network Proteomics Facility. 2009 IDeA Northeast Regional Meeting. Dartmouth Medical School. August 5-7, 2009
  37. **B Deng**, B A Ballif, D E Matthews. The Vermont Genetics Network Proteomics Facility at the University of Vermont. 3rd annual Northeast Regional Life Sciences Core Directors (NERLSCD) meeting, October 22-24, 2008, Burlington, Vermont (Regional)
  38. Qing Tang, **Bin Deng**, and Gary E. Ward. Evaluating 2D-DIGE as an approach to small molecule target identification in *T. gondii*. 2008 MPM in Woods hole. Sep.21- 25
  39. **B Deng**, D E Matthews, B A Ballif. The Vermont Genetics Network Proteomics Facility at the University of Vermont. Biennial Institutional Development Award (IDeA) Program 2008 Symposium. August 6-8, Washington, DC (National)
  40. **B Deng**, D E. Matthews. Proteomics research at UVM. ABRF (The Association of Biomolecular Resource Facility) 2008 Conference, February 9-12, Salt Lake City, Utah (National)
  41. **B Deng**, D Matthews. UVM/VGN Proteomics Facility. 2<sup>nd</sup> Northeast Regional IDeA Meeting, August 15-17, 2007, Burlington, Vermont (Regional)
  42. **B Deng**, H Wang, Q Zhang, L Beretta, S Hanash. Protein dynamics induced by TGF- $\beta$  in Liver Cancer Cells. 3<sup>rd</sup> US HUPO (Human Proteome Organisation) Conference, March, 2007, Seattle, WA (National)
  43. **B. Deng**, H. Wang, L. Beretta, and S.M, Hanash. Changes in cell surface and soluble proteins induced by TGF- $\beta$  in liver cancer cells determined using a label-free LC/MS approach. 54 ASMS Conference on Mass Spectrometry. May 28- June 1, 2006, Seattle, WA (National)
  44. W M Gao, E Puravs, R Zhao, **B Deng**, H Wang, J Qiu, R Kuick, R Hinderer, D E. Misek, G S. Omenn, and S M. Hanash. Identification of autoantibodies to tumor-derived antigens as candidate biomarkers for the early detection of lung cancer. Proceedings of the American Association for Cancer Research Annual Meeting Volume: 46 Pages: 1031 Published: APR 2005 (National)
  45. **B. Deng**, H. Wang, L. Beretta, S.M, Hanash. Comprehensive Profiling of Liver Cancer Cell Surface Proteins Based on Affinity Capture. U.S. HUPO 2005. Mar. 13-16, 2005. Washington, DC, USA. (National)
  46. V. Faca, **B. Deng**, D. Phanstiel, L. Newscomb, and S. Hanash. Identification of Glycoproteins in Lung Adenocarcinoma Cell Surface. U.S. HUPO 2005. Mar. 13-16, 2005. Washington, DC, USA (National)
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