

## **Benjamin F. Mann**

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### **Education**

2012            Indiana University, Analytical Chemistry, Ph.D  
2004            Butler University, Chemistry, B.S.

### **Professional Experience**

2006-2012     Research Associate, Indiana University-Bloomington, IN  
2006-2011     Associate Instructor, Indiana University-Bloomington, IN  
2004-2006     Laboratory Analyst, Colorcon, Indianapolis, IN

### **Honors and Awards**

2011    International Symposium on Capillary Chromatography Travel Award  
2010    2<sup>nd</sup> place, Oral Presentation by a Young Scientist, International Symposium on  
          Capillary Chromatography  
2010    Microscale Bioseparations Travel Award  
2009    Eli Lilly Analytical Chemistry Award, Indiana University-Bloomington  
2009    International Symposium on Capillary Chromatography Travel Award

### **Research Publications**

10.    Mann, BF, Mann, AKP, Skrabalak, SE, Novotny, MV, "New Macroporous Silica Microparticles Derivatized for Enhanced Lectin Affinity Enrichment of Glycoproteins", *Anal. Chem.*, 2013, DOI: 10.1021/ac303274w.
9.    Mann, BF, Goetz, JA, House, MG, Schmidt, CM, Novotny MV, "Glycomic and Proteomic Profiling of Pancreatic Cyst Fluids Identifies Hyperfucosylated Lactosamines on the N-linked Glycans of Overexpressed Glycoproteins", *Mol. Cell. Proteomics*, 2012, DOI: 10.1074/mcp.M111.015792.
8.    Balonova, L, Mann, BF, Cervený, L, Alley, Jr., WR, Chovancova, E, Forslund, A, Salomonsson, E, Forsberg, A, Damborsky, J, Novotny, MV, Hernychova, L, Novotny, MV, Stulik, J, "Characterization of Protein Glycosylation in *Francisella tularensis* Subspecies *holarctica*: Identification of a Novel Glycosylated Lipoprotein Required for Virulence", *Mol. Cell. Proteomics*, 2012, DOI: 10.1074/mcp.M111.015016.
7.    Svoboda, M, Mann, BF, Goetz, JA, Novotny, MV, "Examination of Glycan Profiles from IgG-Depleted Human Immunoglobulins Facilitated by Microscale Affinity Chromatography", *Anal. Chem.*, 2012, 84(7), 3269-3277.
6.    Alley, Jr., WR, Vasseur, JA, Goetz, JA, Svoboda, M, Mann, BF, Matei, DE, Menning, N, Hussein, A, Mechref, Y, Novotny, MV, "N-linked Glycan Structures and their Expression Changes in the Blood Sera of Ovarian Cancer Patients", *J. Proteome Res.*, 2012, 11(4), 2282-2300.
5.    Horak, D, Balonova, L, Mann, BF, Plichita, Z, Hernychova, L, Novotny, MV, Stulik, J, "Use of Magnetic Hydrazide-modified Polymer Microspheres for

- Enrichment of *Francisella tularensis* Glycoproteins", *Soft Matter*, 2012, 8(9), 2775-2786.
4. Mann, BF, Madera, M, Klouckova, I, Mechref, Y, Dobrolecki, LE, Hickey, RJ, Hammoud, ZT, Novotny, MV, "A Quantitative Investigation of Fucosylated Serum Glycoproteins with Application to Esophageal Adenocarcinoma", *Electrophoresis*, 2010, 31(11), 1833-1841.
  3. Balonova, L, Hernychova, L, Mann, BF, Link, M, Bilkova, Z, Novotny, MV, Stulik, J, "Multimethodological Approach to Identification of Glycoproteins from the Proteome of *Francisella tularensis*, an Intracellular Microorganism", *J. Proteome Res.*, 2010, 9(4), 1995-2005.
  2. Mann, BF, Madera, M, Sheng, Q, Tang, H, Mechref, Y, Novotny, MV, "ProteinQuant Suite: a Bundle of Automated Software Tools for Label-free Quantitative Proteomics", *Rapid Commun. Mass Spectrom.*, 2008, 22(23), 3823-3834.
  1. Madera, M, Mann, BF, Mechref, Y, Novotny, MV, "Efficacy of Glycoprotein Enrichment by Microscale Lectin Affinity Chromatography", *J. Sep. Sci.*, 2008, 31(14), 2722-2732.

#### **Review Articles**

2. Alley, Jr., WR, Mann, BF, Novotny, MV, "High-sensitivity Analytical Approaches for the Structural Characterization of Glycoconjugates", *Chem. Rev.*, 2013, accepted.
1. Novotny, MV, Alley, Jr., WR, Mann, BF, "Analytical Glycobiology at High Sensitivity: Current Approaches and Directions", *Glycoconj. J.*, 2012, DOI: 10.1007/s10719-012-9444-8.

#### **Patent**

1. Mann, BF, Mann, AKP, Skrabalak, SE, Novotny, MV, "Application of Macroporous Silica Synthesized by a Salt-Templated Aerosol Method for Chromatography", Provisional Patent 22920-220185, 2012.

#### **Selected Presentations**

4. Oral, 35<sup>th</sup> International Symposium on Capillary Chromatography, "Application of Alternate-pumping Recycle Chromatography to Separation of Carbohydrates", 2011, San Diego, CA, USA.
3. Oral, 34<sup>th</sup> International Symposium on Capillary Chromatography, "Identification of Unusual Hyperfucosylated Glycan Structures and the Related Glycoproteins in Pancreatic Cyst Fluids of Cancer Patients", 2010, Riva del Garda, Italy.
2. Oral, The Pittsburgh Conference, "Multimethodological Approaches to Glycoproteomic and Glycomic Mapping of Healthy and Breast Cancer Blood Serum Samples", 2010, New Orleans, LA, USA.
1. Oral, 32<sup>nd</sup> International Symposium on Capillary Chromatography, "Applications of Software-Assisted, Label-Free Quantitative Analysis to Glycoproteomics", 2008, Riva del Garda, Italy.