John Johnson
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Qualifications Summary

Six years of experience in an analytical chemistry lab setting, including five years of graduate school research working with HPLC method development and one year of lab management experience at an undergraduate institution. Major areas of experience, strengths and skills include: expertise in HPLC (affinity, normal and reverse phase); working knowledge of analytical chemistry; SOPs and corresponding instrumentation; strong written and verbal communication skills; ability to manage projects and personnel with enthusiasm and team-oriented perspective.

Professional Preparation

Ph.D. Analytical Chemistry (Area of Specialization: HPLC method development) University of Nebraska–Lincoln, Lincoln, NE, 2016

B.S. Chemistry, Smith College, Omaha, NE, 2011

Analytical Skill Set

- Expertise in HPLC: affinity, normal and reverse phase chromatography.
- Experience in lab and personnel management, chemical procurement and waste disposal, method development and SOP writing.
- Working knowledge of instrumentation includes: GC, GC/MS, UV-Vis, IR, NMR, CD
- Strong analytical laboratory skills.
- Proficient in Microsoft Excel, Word, PowerPoint, Peakfit
- Experience in writing as co-PI for grant proposals and as both a primary and corresponding author on manuscripts.

Professional Experience

Postdoctoral Research Associate, Smith College, Omaha, NE; 2011–present.

- Manage undergraduate research projects, providing feedback and direction through completion.
- Mentor 4 undergraduate research students, scheduling, progress evaluations.
- Evaluate lab notebooks, purchase chemicals and supplies.
- Write and edit manuscripts, serving as corresponding author on student publications.
- Plan and facilitate research group meetings.
- Research and implement new inventory bar coding system for Smith College.
- Present research findings at local conferences.
- Organize outreach programs for community grade school students in effort to build interest in sciences at younger ages as result of a NSF-CAREER award.

Graduate Research Experience

Analytical Chemistry Graduate Student, University of Nebraska–Lincoln, Lincoln, NE; 2006–2011.

- Doctoral thesis emphasized work done to optimize and implement novel immobilization technique for high performance affinity chromatography.
- Developed immobilization methodology and wrote SOPs for new and established techniques.
- Closely followed procedures based upon previously established SOPs.

- Retained lab notebook, detailing all aspects of daily research.
- Served as Chemical Hygiene Officer for graduate research group, tracked inventory and supplies, worked with EH&S for chemical disposal

Industry Relevant Publications

Marcus Lyon, Mark V. Wilson, Kerry A. Rouhier, David J. Symonsbergen, Kiran Bastola, Ishwor Thapa, Andrea E. Brown, Sharmin M. Sikich, and **John Johnson**. Digital Image Analysis for DETECHIP® Code Determination. *Signal and Image Processing: An International Journal.* Accepted for publication in August 2012.

Cassie Reicks, Jordan Groathouse, Mitch Trauernicht, Sharmin Sikich, Mark V. Wilson, Andrea E. Brown and **John Johnson**. Wild Plum: novel blue fluorescent compounds capable of luminosity restoration in sun-exposed skin. *Skin Research and technology.* Accepted for publication in August 2012.

Andy Smith, Mark V. Wilson, Mitch Trauernicht, Andrea E. Brown, **John Johnson**. Improved image analysis of DETECHIP® allows for increased specificity in drug discrimination. *Journal of Forensic Research*. Submitted for publication August 2012.

Marcus Lyon, Mark V. Wilson, Kerry A. Rouhier, David J. Symonsbergen, Kiran Bastola, Iswhor Thapa, Andrea E. Brown, Sharmin M. Sikich, **John Johnson**. "Image Analysis of DETECHIP® – A Molecular Sensing Array" in *Advances in Intelligent and Soft Computing,* book series, Springer, (2012), 166, 145–158.

John Johnson, Matt Sobansky, David S. Johnson. "Immunoaffinity Chromatography", in *Antibodies*, Elaine P. Muelenberg (Ed.), Bentham, Netherlands, in press.

John Johnson, Hai Xuan, David S. Johnson. Entrapment of Proteins in Polysaccharide-Capped Hydrazide Activated Supports. *Analytical Biochemistry* (2010), 404 (1), 106–108.

John Johnson, Elizabeth M. Karle, David S. Johnson. Preparation of High-Capacity Supports Containing Protein G Immobilized to Porous Silica. *Analytical Biochemistry* (2010), 406, 235–237.

David S. Johnson, **John Johnson**, Matt Sobansky, John E. Schiel, Michelle Yoo, K.S. Joseph. Characterization of Drug-Protein Interactions in Blood Using High-Performance Affinity Chromatography. *Journal of Separation Science* (2009), 32 (5–6), 835–853.

K.S. Joseph, Jeanethe Anguizola, **John Johnson**, David S. Johnson. Chromatographic Analysis of Acetohexamide to Glycated Human Serum Albumin. *Journal of Chromatography B*. (2010), 15, 2775–2778.

David S. Johnson, Chunling Wa, **John Johnson**, Hai Xuan. US Patent 2009, U.S. Patent Application No. 20100055667: "Restricted Access Media and Methods for Making Restricted Access Media."

References

Dr. Andrea E. Brown, Assistant Professor, Smith College, Crete, NE. Postdoctoral Research Advisor

Dr. David S. Johnson, Charles Bessey Professor, University of Nebraska–Lincoln, Lincoln, NE. Graduate Research Advisor

Matt Hiller, Senior Scientist – Global R&D, Novartis Consumer Health, Inc., Lincoln, NE.