

Shannon Lyn Phillips, Ph. D.
Scientist, QC Manager
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Education

- 2002 Ph.D., Analytical Chemistry, Ohio State University, Columbus, OH
- 1996 B.S., Chemistry, Youngstown State University, Youngstown, OH

Experience

IsoTherapeutics Group, LLC, Angleton, TX

- 2010 – present Scientist, QC Manager
Excel in a small team R&D and Manufacturing role where flexibility and resourcefulness are critical to project success. Lead the development and implementation of GMP manufacturing capabilities for the preparation of aseptic radiopharmaceutical products. This includes a lead role in the design, maintenance and monitoring of the production facility. Spearhead the development, training, implementation and maintenance of a GMP compliant regulatory system. Excel at project leadership and direct customer support. Provide technical expertise in LC-MS and Liquid Scintillation. Provide technical contributions to specification setting, sterility testing, stability testing and animal studies.

Dow Chemical Company, Freeport, TX

- 2007 - 2010 Chemistry Specialist
Provide key support of manufacturing and development issues through the use of chromatographic methodologies. Implement and maintain critical Gas Chromatography-FID and Size Exclusion Chromatography methodology and instrumentation for 24/7 campaign support of a natural product feed campaign. Team lead for customer support of taste and odor product issues using a SPME-GC-MS with sniff-port capability.

Bristol-Myers Squibb, New Brunswick, NJ

- 2002 – 2007 Research Investigator II
Lead the development validation, trouble shooting, documentation and technical transfer of methodology under a GLP/GMP environment. Excel in matrix management environment through direct communication of technical results; collaborate in the drug development process with local and international colleagues within and across departments. Successfully meet rigorous timelines by effectively managing resources for myself and three direct reports.

Ohio State University, Columbus, OH

1996 – 2000

Graduate Teaching Assistant

Taught an array of lab and recitation courses including honors general chemistry, senior level instruments lab and graduate level separations. Performed related duties including substitute lecturing, instrument instruction, course-related web-site maintenance and proctoring and grading.

Publications

J. Simón, R. K. Frank, D. Crump, J. Rogers, S. Phillips, S. Ellebracht, W. Erwin, N. Ueno, R. Wendt, "Preclinical Evaluation of Sm-153-DOTMP as a Therapeutic Bone-Seeking Radiopharmaceutical," J Nucl Med. **2011**; 52 (Supplement 1):1751

Phillips, S.L.; "LC with Enhanced Fluidity Mobile Phases," Encyclopedia of Analytical Chemistry, invited manuscript contribution, 15 JUNE **2011**

Phillips, S.L.; Kleintop, B.; Khaselev, N.; "Investigating the use of SFC as an Alternative to HPLC for Impurity/Degradant Profiling of a Small Pharmaceutical Compound" manuscript in preparation

Zhang, L.; Ha, K.; Kleintop, B.; Phillips, S.L.; Scheer, B.M.; "Differences in In Vitro Dissolution Rates Using Single-Point and Multi-Point Sampling" Dissolution Technologies **2007** 14(4), 27-31

Phillips, S.L.; Ding, L.; Stegemiller, M.; Olesik, S. V.; "Development of Water-Based Liquid Chromatography at the Critical Condition" Anal. Chem. **2003**, 75(20), 5539-5543

Phillips, S.L.; Olesik, S.V.; "Initial Characterization of Humic Acids Using Liquid Chromatography at the Critical Condition Followed by Size-Exclusion Chromatography and Electrospray Ionization Mass Spectrometry" Anal. Chem. **2003**, 75(20), 5544-5553

Phillips, S.L.; Olesik, S.V.; "Fundamental Studies of Liquid Chromatography at the Critical Condition Using Enhanced-Fluidity Liquids" Anal. Chem. **2002**, 74(4), 799-808

Awards & Honors

Technical support lead for an IAESTE intern for a 6 month SEC-Triple Detection project in collaboration with biopharmaceutical colleagues (July-December 2006)

Active participant in technical forums within the PRI of BMS (2002-2007)

Organize and actively participate in departmental recruiting campaigns at conference and university forums (2002 to 2007)

Lead role in the development and reallocation of laboratory and office resources for the department with minimal down time. Enabled the successful move of a GMP laboratory environment for twenty team-mates through strategic planning and collaboration with colleagues and vendors (2003-2006)

William Rand Kenan, Jr. Award (national award from Union Carbide) (April 2000)

Mack Memorial Award Committee Chair (1999) & Member (1998)

Graduate Student Committee President (1999) & Member (1998) (elected post)

University GAAN Fellowship (January 1997 to September 1998)

Professional Organizations

Member of the American Chemical Society and the Society of Nuclear Medicine

Active member and secretary of the North Jersey Chromatography Group, a topical sub-group of the National ACS (2005-2007)