

Deanna Warner, Ph.D.

ACADEMIC SUMMARY

- Ten years of experience as tenure track / tenured Assistant / Associate Professor in Biochemistry at Salem State University, with academic interests in the areas of science education and use of technology in education.
- Fifteen years of experience teaching biochemistry, pharmacology, organic chemistry, general chemistry and health and wellness at the university and college level.
- Educational background includes a Ph.D. in Analytical Chemistry with postdoctoral experience in Pharmacology.
- Four years of higher education administrative experience in the areas of Science and Business Affairs at the level of Associate Dean and Dean.
- Six years of industry experience directing scientific research in the areas biotechnology / analytical chemistry.
- Previous research experience in characterization and analysis of novel camptothecin anticancer drugs and development of world's first biodegradable and biorenewable natural polymer.
- Extensive regulatory and grant writing experience, including FDA filings, EPA compliance testing, pharmaceutical pre-clinical /clinical trials and state and federal grant applications.

EDUCATION

- **Postdoctoral Research Fellow, College of Pharmacy, Division of Pharmaceutical Sciences** - University of Kentucky, Lexington, KY
- **Ph.D. Analytical Chemistry** - University of Cincinnati, Cincinnati OH
- **B.S. Chemistry** - Missouri University of Science and Technology, Rolla MO

COURSES TAUGHT

Salem State University: Topics in Organic and Biochemistry, Chemistry Seminar, Advanced Biochemistry, Biochemistry, Organic Chemistry I & II, General Chemistry I & II, General Chemistry of Life Processes, General Chemistry for Life Science, Clinical Pathology and Pharmacology, Health and Wellness, Power Volleyball

Northwest Florida State College: College Chemistry I & II, General Chemistry for Life Sciences, Chemical Science

Broward College: General Chemistry I & II, Chemistry for Health Sciences, Introduction to Chemistry

PROFESSIONAL EXPERIENCE

Broward College - Fort Lauderdale, FL

(2017 – current)

Interim Dean of Business Affairs –South Campus, Partnership Centers, Online, STEM Pathway, IMCT Pathway (November 2020 – present)

- Leads campus administrators and supervisors in the development and management of academic budgets, accounting procedures and business reports. Authorizes departmental payrolls and campus-wide purchases.
- Assists Deans and Associate Deans in all aspects of fiscal management of departmental funds, purchases and fiscal planning.
- Adjusted all campus academic operations during Covid-19 pandemic to support the college.
- Works collaboratively with district and campus administrators in planning of new facilities and renovating / remodeling of current facilities for academic purposes.
- Directs the scheduling of academic facilities on the campus.
- Facilitates campus partnerships with educational institutions, community and private organizations and creates revenue opportunities.
- Represents the campus in various civic, community and professional organizations at the local, state and national level to promote the mission and goals of the college and campus.
- Teach courses as an adjunct professor in Chemistry.

Dean of Science & Wellness - Collegewide (Nov 2019 – Nov 2020)

Associate Dean of Science & Wellness – North Campus (July 2017 – Nov 2019)

- Increasing level of responsibility for all aspects of leadership of faculty and staff in support of A.A., A.S. and B.S. programs in Science & Wellness.
- Increasing level of responsibility for fiscal management, including personnel, facilities management, laboratory expenses and capital purchases.
- Responsible for short and long-term institutional planning for Science & Wellness department, which offers 880+ courses per term, with enrollment of 20,000+ seats per term.
- Worked with university partners on grants, articulation agreements, events and student opportunities in STEM area.
- Managed employee recruitment, retention, evaluation and personnel actions. Worked collaboratively with full-time and adjunct faculty within union contract guidelines.
- Mediated grade disputes, student discipline issues and student-faculty conflicts.
- Taught and developed online courses as an adjunct professor in Chemistry.

Salem State University – Salem, MA

(2007-2017)

Associate Professor (tenured), Biochemistry, Department of Chemistry & Physics

- Responsible for developing and teaching online, hybrid and traditional courses in the areas of biochemistry, chemistry, pharmacology and wellness in the Department of Chemistry & Physics and Department of Sport Movement Science.
- Functioned as the Salem State University (SSU) lead representative and steering committee member on the Life Sciences Consortium of the North Shore (LSCNS) application for a Massachusetts Life Sciences Capital (MLSC) Grant. The LSCNS was awarded \$5M, with SSU receiving \$500,000 for instrumentation for the Biology and Chemistry & Physics Departments.

- Steering Committee Member of LSCNS, which included Endicott College, Gordon College, Salem State University, North Shore Community College, and North Shore InnoVentures. The mission of LSCNS was to enhance workforce development and collaborative industry support of students, graduates, workers and companies in the North Shore area involved in Life Sciences.
- Co-lead the Chemistry & Physics Department Recruitment Committee for six years, which organized open house presentations, attended student events, prepared recruitment information and presented information in college science courses. During this time, the Chemistry & Physics department grew from ~45 majors to ~150 majors.
- Developed pedagogical approach for and implemented the use of electronic laboratory notebook software on iPads into the Biochemistry laboratory course, which is a required course for all B.S. Chemistry majors and an optional course for B.S. Biology majors.
- Developed a unique social media assessment tool for determining placement rates for SSU B.S. Chemistry students in graduate school and science related jobs after graduation. This tool was successfully used to track over 90% of B.S. Chemistry graduates for three years after graduation.
- Developed the online Topics in Organic and Biochemistry course that is required for students obtaining a Master of Arts in Teaching in Chemistry and Biology at SSU.
- Developed the Advanced Biochemistry course that is required for SSU students majoring in B.S. Chemistry with concentration in Biochemistry and optional for other B.S. Chemistry and B.S. Biology students.
- SSU Chemistry Departmental Liaison for Assessment for five years. Attended assessment trainings and prepared end of year assessment documents for the Department of Chemistry & Physics.
- Co-coordinated interdisciplinary events with faculty members from Bertolon School of Business. Topics included: Entrepreneurial Students Networking Café, Ordinary Guy Seeks Toxic-Free World and Combining Majors and Minors to Enhance Student Learning: A “Speed-Dating” Exercise for Advisors.
- Selection committee member for the United Negro College Fund – Merck Science Initiative for graduate fellowships.

Metabolix – Cambridge, MA

(2006 – 2007)

Team Leader, Analytical Biochemistry Group

- Formed an analytical biochemistry group to support research, product development, pilot manufacturing, customer applications and FDA regulatory efforts for the development of novel biodegradable, bio-renewable polymers produced from genetically modified bacteria.
- Performed all personnel, laboratory and capital planning for new analytical biochemistry group. Recruited and hired new group members.
- Designed new analytical laboratory facilities. Purchased, installed and maintained instrumentation and data acquisition systems.
- Supervised laboratory containing over \$1M in equipment, technology and software. Managed annual budget of over \$1M in personnel costs and expenditures.
- Worked with outside vendors and contract laboratories on a weekly basis from proof of concept studies to entire projects. Successfully completed technology transfer of standard methods of analysis to joint venture partner.
- Lead analytical biochemistry effort to successfully obtain FDA approval for food contact for biopolymer products produced from genetically modified bacteria.

Northwest Florida State College - Niceville FL

(2004 – 2006)

Assistant Professor of Chemistry, Department of Physical Sciences

- Responsible for teaching undergraduate lecture, laboratory and on-line courses in general chemistry.
- * Worked with nursing faculty to improve chemistry courses for nursing students. Recommendations implemented included improving tutoring referral system and offering courses in online, traditional and distance learning formats.

Solutia Inc. – Cantonment, FL

(1999 - 2004)

Analytical Technology Team Leader

- Lead and expanded analytical technology group, with \$2M in laboratory equipment and an annual budget of \$1M, which provided technical support to a wide variety of research, development and manufacturing groups.
- Performed all personnel, laboratory, facilities and capital planning. Purchased, installed and maintained instrumentation, data acquisition systems and technology support systems.
- Completed two assignments in the New Ventures group evaluating the intellectual property value of start-up companies for the pharmaceutical business division.
- Completed temporary assignment improving the quality of solid-state polymerization products by developing and implementing operational and technological changes, as well as optimizing manufacturing facilities.
- Worked with manufacturing engineers and scientists to address EPA compliance issues on a routine basis. Lead analytical chemistry effort to successfully obtain US patent and FDA GRAS status for novel synthetic production of a food additive.

RELEVANT COMPUTER SKILLS

Operating Systems: macOS, Microsoft Windows, iOS, Android

Hardware: Macintosh, PC, Tablets

Learning Management Systems: D2L, Canvas, Blackboard, Brightspace

General Software & Applications: Adaptive, Power BI, XLSTAT, CID, Workday, Microsoft 365, iWork, Google Apps, Evernote, PeopleSoft, ChemDraw, Dropbox, Apple iCloud, SigmaStat, LIMS, Minitab, STATA, Zoom, Archibus, Minute Traq

RELEVANT PROFESSIONAL TRAINING AND WORKSHOPS

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| • Adaptive Budgeting | • Power BI |
| • Workday Financials | • Canvas Learning System |
| • Microsoft Lync | • Hybrid/Online Course Design |
| • Conflict Resolution Basics | • Blackboard Learning System |
| • Unconscious Bias | • Safe Zone |
| • Teaching Men of Color | • Security Awareness |
| • Brainfuse | • Implementing Ipads in the Curriculum |
| • Getting Ready to Teach Online with D2L | • Use of Wiki in Teaching |
| • Grant Writing Retreat | |

PATENTS

Backes, T.W.; Crowe, P.N.; **Hamilton, D.W.**; Khramov, M.I.; Peters, N.J.; Uriarte, A.K. *Process for Producing A Calcium Carboxylate*, U.S. Patent 6.673,964, Jan. 2004.

SCIENTIFIC AND ACADEMIC PRESENTATIONS

Broward College Women: Balancing It All, 2021 Women's Month Seminar Series, Broward College, March 2021.

Making the World's First Biorenewable and Biodegradable Plastic, 2019 Earth Day Event, Broward College, Coconut Creek FL, April 2019.

LinkedIn for Assessment, 2016 Assessment Workshop: Perspectives on Program Assessment, Salem State University, Salem MA, May 2016.

Shades of Green Chemistry, 250th American Chemical Society National Meeting & Exposition, Boston MA, August 2015.

Electronic Laboratory Notebook Software via I pads in Biochemistry Undergraduate Laboratory, 2013 STEMtech Conference, Atlanta, GA, October 2013.

Putting the Biochemistry First in an Organic / Biochemistry Course, 2012 STEMtech Conference, Kansas City, MO, October 2012.

Teaching an Organic / Biochemistry Semester Course to Non-majors in the Health Science Fields: Putting the Biochemistry First!, 244th American Chemical Society National Meeting & Exposition, Philadelphia, PA, August 2012.

Leap of Faith: Accepting a Nontenure Track Position which "Might" Turn into a Tenure-Track Position, 240th American Chemical Society National Meeting & Exposition, Boston MA, August 2010.

Analysis of Free Melamine and Cyanuric Acid in Nylon 6/6, The Pittsburgh Conference, New Orleans LA, March 2002.

Determination of 9-Aminocamptothecin Lactone and Carboxylate Levels in Blood Using a HPLC Assay: Marked Interspecies Variations Influencing Drug Stability, 87th Annual Meeting of the American Association for Cancer Research, Washington D.C., April 1996.

Chemistry of the Camptothecin Analog GI147221C in Human Blood, 87th Annual Meeting of the American Association for Cancer Research, Washington D.C., April 1996.

Reduction of Total Analysis Time in Gradient Elution Liquid Chromatography, The Pittsburgh Conference, Chicago IL, March 1994.

PUBLICATIONS

Warner, D. *Laboratory Experiments for Biochemistry - CHE 309*, 1st edition, Salem State University, Department of Chemistry & Physics, 2016.

Warner, D. *Laboratory Experiments for General Chemistry of Life Processes - CHE 125*, 1st-4th

editions, Salem State University, Department of Chemistry & Physics, 2007-2011.

Warner, D. *Laboratory Experiments for General Chemistry for Life Sciences - CHE 124*, 1st-4th editions, Salem State University, Department of Chemistry & Physics, 2007-2011.

Hamilton, D.W.; O'Neal, P.A. *Analytical Methods for the Quantification of Free Melamine and Cyanuric Acid in Nylon 6/6,6 Co-Polymer*, Journal of Separation Science, 26 (6-7), 510-514, 2003.

Eckhardt, S.G; Baker, S.D.; Eckardt, J.R.; Burke, T.G.; **Warner, D.L.;** et. al. *Phase I and Pharmacokinetic Study of GI147211, a Water-soluble Camptothecin Analog, Administered for Five Consecutive Days Every Three Weeks*, Clinical Cancer Research, 4(3), pp. 595-604, 1998.

Warner, D. and Burke, T.G. *Comparison of Filter and Tunable Fluorescence Detection for the HPLC Simultaneous Quantitation of Lactone and Carboxylate Forms of Topotecan in Plasma*, Journal of Liquid Chromatography and Related Techniques, 20(10), pp. 1523-1537, 1997.

Warner, D. and Burke, T.G. *A Simple and Versatile HPLC Method for the Simultaneous Quantitation of the Lactone and Carboxylate Forms of Camptothecin Anticancer Drugs*, Journal of Chromatography B: Biomedical Science Applications, 691(1), pp. 161-171, 1997.

Warner, D. and Dorsey, J.G. *Reduction of Total Analysis Time in Gradient Elution Liquid Chromatography*, LC-GC Magazine, 15(3), pp 254-262, 1997.

Warner, D.; Tang, Y. and Armstrong, D.W. *Removal of Organic Compounds from Water via Adsorption onto Polymethylhydrosiloxane Pentenyl- β -Cyclodextrin*, Journal of Liquid Chromatography, 17, pp. 1721-1735, 1994.

Warner, D.; Hoshi, S. and Armstrong, D.W. *Removal of Organic Compounds from Water via Cloud-Point Extraction with Permethyl Hydroxypropyl- β -Cyclodextrin*, Separation Science and Technology, 28(4), pp. 1009-1015, 1993.