



Bill Neumann, Ph.D.

Title: Associate Professor of Pharmaceutical Sciences,
Medicinal Chemistry

Department: Pharmaceutical Sciences, School of Pharmacy

Institution: Southern Illinois University Edwardsville

Email: wneuman@siue.edu

Phone: 618-650-5088

Web URL:

<http://www.siue.edu/pharmacy/contact/pharmaceutical-sciences/neumann-bill.shtml>

1. What are your current 3 main areas of research?

- Development of Peroxynitrite decomposition catalysts
- Synthesis of heterocyclic scaffolds for drug discovery
- Dopamine and Sigma agonists

2. What are the top 3 areas of expertise/tools you are looking for in a research collaborator?

- Transition metal-oxo catalysis chemistry (kinetics and mechanism)
- Pharmacology studies in pain, inflammation, cancer, neurodegenerative diseases.
- Biochemistry/molecular biology of cellular signaling pathways

3. What 3 skills/tools that you have access to, are you willing to share with a potential research collaborator?

- Design and synthesis of complex biologically active molecules
- Ability to optimize biological activity and minimize toxicity of lead compounds through structure-activity studies
- Development of new synthetic methodologies. Extensive experience with metal catalyzed cross-coupling chemistry. Experience with parallel synthesis methods including polymer assisted solution phase (PASP) synthesis technologies. Asymmetric hydrogenation expertise.