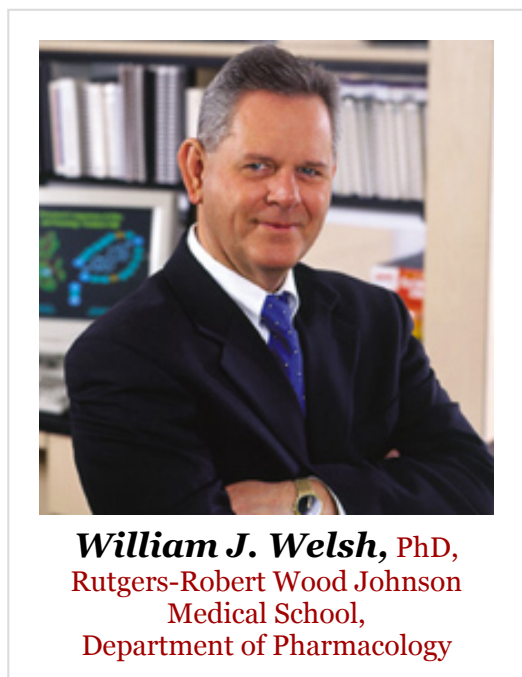


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William J. Welsh, PhD,
Rutgers-Robert Wood Johnson
Medical School,
Department of Pharmacology

In Silico Design of Anti-Atherogenic Biomaterials

Atherogenesis, a leading cause of cardiovascular disease, is the formation of plaques along the inner lining of the arteries. Polymeric biomaterials with the ability to repress oxidized lipoproteins in macrophages have been envisioned as tools for counteracting the illness. Dr. Welsh and his team are utilizing a computer-based approach that screens and structurally optimizes anti-atherogenic biomaterials with high efficacy.

By attending the [NJ Symposium on Biomaterials Science](#) on **November 9, 2015**, you will learn how Dr. Welsh quantitatively models a series of amphiphilic macromolecules in the search for the one with optimal anti-atherogenic activity. This approach has the potential to reduce the time to develop new biomaterials with cardiovascular therapeutic properties.

Dr. William Welsh holds the Norman H. Edelman Endowed Professorship in Bioinformatics in the Department of Pharmacology at Rutgers-Robert Wood Johnson Medical School (RWJMS) as well as the directorship of the Division of Cheminformatics in the Biomedical Informatics Shared Resource at the Rutgers-Cancer Institute of New Jersey. He was the Founding Director and Principal Investigator of the Environmental Bioinformatics and Computational Toxicology Center and the Informatics Institute at the former University of Medicine & Dentistry of New Jersey (now Rutgers).

Dr. Welsh specializes in the development of computational methods of new molecule discovery, molecular modeling and simulation, and pattern recognition. In addition to his over 400 published articles, 200 professional scientific presentations, and numerous patents and patent applications, he is the founder of Snowdon, Inc., a biopharmaceutical company focused on the acceleration of molecular discovery.

Dr. Welsh has received numerous awards and honors, such as the St. Louis Research Award and the University of Missouri-St. Louis Chancellor's Research and Creativity Award. He is an expert reviewer for scientific societies and journals, private companies, and federal agencies including the NIH, DoD, FDA, and EPA. When you attend this year's [NJ Symposium on Biomaterials Science](#), you will have a front-row seat to learn from biomedical research leaders such as William Welsh.

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