CENTER FOR DERMAL RESEARCH

RUTGERS' CENTER FOR DERMAL RESEARCH (CDR) SEMINAR SERIES

Guest speaker: **William J. (Bill) Welsh**

Rutgers, The State University of New Jersey
December 6, 2017 at 5:30pm

Avalanche, a novel computational tool for property prediction of bioactive molecules

ABSTRACT:

Dr. William J. (Bill) Welsh holds the Norman H. Edelman Endowed Professorship in Bioinformatics in the Department of Pharmacology at the Robert Wood Johnson Medical School (RWJMS), Rutgers University in Piscataway NJ. Concurrently, he serves as Associate Director of the Division of Cheminformatics in the Biomedical Informatics Shared Resource at the Rutgers-Cancer Institute of New Jersey (R-CINJ).

Dr. Welsh's laboratory specializes in the development and application of computational tools for new-molecule discovery, molecular modeling and simulation, and pattern recognition. His publication record includes over 400 articles in peer-reviewed books and journals, over 200 abstracts for presentations at professional scientific meetings, and multiple patents and patent applications. In October 2007, Dr. Welsh founded Snowdon, Inc., (snowdonpharma. com) a biopharmaceutical company that specializes in development and application of computational software to accelerate molecular (including drug) discovery. He currently resides in Princeton, New Jersey (NJ).

BIOGRAPHY:

Dr. Welsh received in B.S. degree in Chemistry from St. Joseph's University (Philadelphia, PA). He earned a Ph.D. in Theoretical Physical Chemistry from the University of Pennsylvania (Philadelphia, PA). He then conducted postdoctoral studies in computational physical chemistry in the Department of Chemistry at the University of Cincinnati (Cincinnati, OH) and at the National Institutes of Health (NIH). More recently (2012), Dr. Welsh spent a sabbatical leave in the Department of Chemistry at Princeton University (Princeton, NJ) specializing in computational data analysis for pattern recognition. Besides his academic experience, Dr. Welsh was employed as a research scientist at the Procter & Gamble Company (P&G).