CIIT Center for Computational Biology and Extrapolation Modeling (CCBEM)

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The mission of the Center for Computational Biology and Extrapolation Modeling (CCBEM) is to further our understanding of the biological mechanisms that determine the shape of the xenobiotic exposure-adverse response curve in humans and laboratory animals. CCBEM promotes a Systems Biological approach to research with a focus on development of computational models of biological systems. These computational models are used for data evaluation, experimental design and for the extrapolations – route-to-route, between species, and from high to low doses – that are essential to science-based human health risk assessment. CCBEM promotes incorporation of biologically based modeling at the earliest feasible stages of laboratory research projects and also develops prototype, biologically motivated human health risk assessments. CCBEM promotes technology transfer both inside and outside of CIIT with the goal of maximizing the use of computational resources in support of research and health risk assessment. Training in computational modeling of biological systems is provided through seminars and special courses that include hands-on computer laboratories.

Start and end date: January 2003 – December 2005

Presentations:


Greenlee, W. F. (2002). Recasting the toxicology paradigm: a systems biology perspective. Invited presentation at Department of Pharmacology & Toxicology, The Brody School of Medicine, East Carolina State University, Greenville, NC, October 29, 2002.


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Peer-reviewed publication(s):


Other publications:


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