

Computational Toxicology Research (CompTox)

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Research Areas



Tool Development

Resource



Basic Research



Product Development

At a Glance

- Status: **Active Consortium**
- Year Launched: **2007**
- Initiating Organization: **Environmental Protection Agency**
- Initiator Type: **Government**
- Location: **North America**

Abstract

The Environmental Protection Agency's (EPA's) Computational Toxicology research (CompTox) is part of its broader chemical safety research efforts. Because current chemical testing is expensive and time consuming, only a small fraction of chemicals have been fully evaluated for potential adverse human health effects. CompTox is researching new, more efficient ways to address managing the safety of chemicals, particularly in assessing chemicals for human health effects.

Mission

The National Center for Computational Toxicology (NCCT) is the largest component of EPA's CompTox program. It was established in 2005 to coordinate computational toxicology research on chemical screening and prioritization, informatics, and systems modeling. NCCT is involved in the following areas:

Structure & Governance

NCCT coordinates CompTox activities and works internally with EPA's other research programs, labs, and centers.

Links/Social Media Feed

Home page

<http://www.epa.gov/ncct/>

Points of Contact

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Sponsors & Partners

U.S. Environmental Protection Agency—initiator

Advanced Chemistry Development, Toronto, ON

Altamira LLC

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BASF

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Baylor University

BioDetection Systems

Biotranex LLC

Boston Children's Hospital

British Columbia Cancer Agency Branch

California Office of Environmental Health Hazard Assessment (OEHHA)

Caliper Life Sciences (formerly NovaScreen Biosciences Corp)
Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health
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Eli Lilly and Company
Endogenics
European Chemicals Agency (ECHA)
European Commission Joint Research Centre (JRC), Institute for Health and Consumer Protection
Fraunhofer Institut für Toxikologie und Experimentelle Medizin
GlaxoSmithKline
Harvard University Department of Stem Cell and Regenerative Biology Lee Rubin Lab
Health Canada
Hepregen
Hoffman-LaRoche Inc.
ILSI North America
Imperial College of Science, Technology and Medicine
Indiana University BioComplexity Institute (part of the Texas Indiana Virtual STAR Center)
Institute of Occupational Medicine (IOM)
Istituto di Ricerche Farmacologiche "Mario Negri," Milano, Italy
IUF Leibniz Research Institute of Environmental Medicine
John Hopkins University/CAAT
L'OREAL
Massachusetts Institute of Technology
Merck
MitoHealth, Inc.
Molecular Networks GmbH – Computerchemie
National Food Institute
National Institute of Environmental Health Sciences/National Toxicology Program
National Institutes of Health Chemical Genomics Center
Netherlands Organization for Applied Research TNO
North Carolina Central University's BRITE Institute Center of Excellence

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The Regents of the University of Michigan
The Royal Institution for the Advancement of Learning/McGill University
The Scripps Research Institute
The University of British Columbia
U.S. Army Center for Environmental Health Research
U.S. Environmental Protection Agency/National Center of Environmental Assessment (NCEA)
U.S. Environmental Protection Agency/National Exposure Research Laboratory
U.S. Environmental Protection Agency/National Health & Environmental Effects Research Laboratory (NHEERL)
U.S. Environmental Protection Agency/Office of Chemical Safety and Pollution Prevention
U.S. Food and Drug Administration/National Center for Toxicological Research
U.S. Food and Drug Administration/Office of Food Additive Safety, Center for Food Safety and Applied Nutrition, College Park, MD
University College Dublin
University of California, Berkeley
University of Cambridge
University of Cincinnati
University of Houston (Texas Indiana Virtual STAR Center)
University of Los Angeles (UCLA) School of Medicine
University of Massachusetts, Lowell

University of Medicine and Dentistry of New Jersey Robert Wood Johnson Medical School's
Department of Pharmacology
University of North Carolina at Chapel Hill
University of North Carolina Center for Computational Toxicology
University of North Carolina Neuroscience Center
University of North Carolina School of Global Public Health, Chapel Hill
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