



Edward J. Calabrese

Biographical Sketch

Edward J. Calabrese is a Professor of Toxicology at the University of Massachusetts, School of Public Health, Amherst. Dr. Calabrese has researched extensively in the area of host factors affecting susceptibility to pollutants, and is the author of over 600 papers in scholarly journals, as well as more than 10 books, including *Principles of Animal Extrapolation*; *Nutrition and Environmental Health*, Vols. I and II; *Ecogenetics*; *Multiple Chemical Interaction*; *Air Toxics and Risk Assessment*; and *Biological Effects of Low Level Exposures to Chemical and Radiation*. He has been a member of the U.S. National Academy of Sciences and NATO Countries Safe Drinking Water committees, and on the Board of Scientific Counselors for the Agency for Toxic Substances and Disease Registry (ATSDR). Dr. Calabrese also serves as Chairman of the Biological Effects of Low Level Exposures (BELLE) and as Director of the Northeast Regional Environmental Public Health Center at the University of Massachusetts.

Over the past 15 years Professor Calabrese has redirected his research to understanding the nature of the dose response in the low dose zone and underlying adaptive explanatory mechanisms. Of particular note is that this research has led to important discoveries which indicate that the most fundamental dose response in toxicology and pharmacology is the hormetic-biphasic dose response relationship. These observations are leading to a major transformation in improving drug discovery, development, and in the efficiency of the clinical trial, as well as in improving environmental regulations.