Barry S. Levine, DSc, DABT

Levine Tox Consulting Consultants in Toxicology and Nonclinical Development

2440 N. Lakeview Avenue Suite 7EF Chicago, IL 60614 www.LevineToxConsulting.com Tel (773) 697-4846 Cell (312) 550-0100 bslevine@levinetoxconsulting.com

CONSULTING SERVICES

- Nonclinical Drug Development
 - Strategic Planning Technical + Budgetary
 - Toxicology/Safety Assessment
 - Small Molecules, Generics, Biologics, and Biosimilars
 - Medical Devices (Biocompatibility)
 - Scientific Program Management including Contract Research Organization Interactions and Study Monitoring
- Regulatory filings (FDA, EMA, Health Canada)
 - Nonclinical Sections of Common Technical Documents (CTDs), Investigator's Brochures, etc.
- Other Consultation Areas
 - Product Liability/Forensic Toxicology (Expert Witness Testimony)
 - Government Contracts
 - Clinical Pathology of Laboratory Animals

EDUCATION AND CERTIFICATION

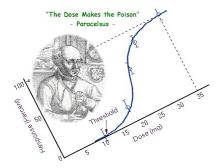
- Diplomate, American Board of Toxicology, 1980
- D.Sc. (Doctor of Science), Toxicology, Harvard School of Public Health, 1976
- M.Sc., Toxicology, Harvard School of Public Health, 1974
- M.S., Medicinal Chemistry, University of Illinois, 1972
- B.S., Pharmacy, University of Illinois, 1971

EXPERIENCE

40+ Years of Experience in Toxicology/Nonclinical Development

evaluating various classes of therapeutic agents within:

- Pharmaceutical Industry
- Contract Research Organizations
- ➢ Academia
- Principal, Levine Tox Consulting, Chicago, IL, 2008 present
- Director, Preclinical Development, Hospira, Lake Forest, IL, 2004-2008
- **Previous posts included director level positions in toxicology** at pharmaceutical companies and contract research organizations
 - PharmaMar USA, Cambridge, MA
 - Vertex Pharmaceuticals, Cambridge, MA
 - Toxicology Research Laboratory (a Contract Research Organization) University of Illinois at Chicago, Chicago, IL
 - BioReliance Corp. (formerly Microbiological Assoc.), Bethesda, MD







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ANCILLARY INFORMATION

- Pharmaceutical Industry Experience
 - Development, placement and monitoring of nonclinical development programs for drugs & biologics at 15+ CRO facilities (toxicology - general, DART, genotoxicity, PK; bioanalytical; safety pharmacology)
 - Nonclinical development representative on drug development & due diligence teams
 - > Toxicology qualification of impurities in drug substances and drug products
 - Preparation of nonclinical sections of regulatory filings (FDA, EMA, Health Canada)
 - > Development and oversight of a Bioethics Program on animal use in research
- **Director of GLP Toxicology Laboratories.** Eighteen years of experience within the pharmaceutical industry and contract research organizations
 - > General toxicology, developmental and reproductive toxicology, pharmacokinetics
 - Rats, mice, dogs, nonhuman primates (Rhesus, Cynomolgus, Baboons, Stumptails), rabbits, goats, ferrets
- Government Contracts Principal Investigator (NCI, NIH, US Army, World Health Organization)
- Academic Teaching Experience Fifteen years; Professor of Pharmacology & Director, Toxicology Research Laboratory, University of IL at Chicago. Lectures/courses given to graduate & medical students
- Legal Experience Twenty years including expert witness testimony
- President, Society of Toxicology, Midwest Regional Chapter, 1991-1992
- Chair, Animal Clinical Chemistry Division, American Association of Clinical Chemistry, 1984 -1986
- 56 publications, 76 abstracts, 2 book chapters, numerous technical reports

SCIENTIFIC SOCIETY MEMBERSHIPS

- Society of Toxicology
- American College of Toxicology
- Society of Toxicologic Pathology
- Society of Forensic Toxicologists

JOURNAL/GRANT APPLICATION REVIEWER

- Journals: Toxicology Mechanisms and Methods (Editorial Board), Cancer Chemotherapy and Pharmacology, Pharmaceutical Biology, Phytomedicine, Pharmacology and Toxicology, Intl. Journal of Pharmacognosy
- Grant Applications: National Cancer Institute, National Institutes of Health, Great Lakes Protection Fund
- Peer Review Panel: Toxicological Profile of RDX, US Dept. Health and Human Services

INVITED PRESENTATIONS

- *Relationship Between Dosing Vehicles, Dose Volume, and Stress*, Humane Society of the United States Workshop entitled "Refinement in Toxicology Testing," New Orleans, LA, 1999
- *Conduct of GLP Toxicology Studies*, One week course presented to Chinese govt. scientists (course codirector and speaker), National Institute of Military Medical Sciences, Beijing, China, 1993
- *Preclinical Toxicology Studies of New Drugs and Vaccines*, U.S. Army Medical Research & Development Command Drug Development Symposium, Frederick, MD, 1993
- Principles of Toxicology, American Industrial Hygiene Assoc. Course, Berkeley, CA, 1987