

Specifically, there are projects related to the neurochemical and behavioral effects of pesticides in developing organisms as well as the metabolism of pesticides in developing organisms to yield predictions about potential effects of pesticides in infants and children.

Other Projects are involved in developing mathematical predictions of the effects of mixtures of pesticides on the nervous system so that predictive models can be generated to potentially describe the effects of future uncharacterized mixtures. Dr. Chambers has been the Principal Investigator for numerous federally funded competitive grants in the field of toxicology. Because of her expertise, she has been asked to serve on a number of advisory boards and prestigious committees. Dr. Chambers is board certified as a toxicologist by the American Board of Toxicology and the Academy of Toxicological Sciences. As Director of the Center for Environmental Health Sciences, she has developed an interdisciplinary research center specializing in pesticide toxicology and funded primarily by NIH. The center comprises the areas of neurotoxicology, biochemical toxicology, analytical chemistry, biostatistics, epidemiology, computational chemistry, computational simulation, biochemistry, and endocrinology.

2. *Nominee*. Dragan, Yvonne P., Ph.D., Program Director, Hepatotoxicology Center for Excellence, National Center for Toxicological Research, FDA, Jefferson, AR.

i. *Expertise*. Pharmacology, toxicology, carcinogenesis, mode of action, and human health risk assessment.

ii. *Education*. B.A., Biology, Smith College; Ph.D., Pharmacology and Toxicology, Medical College of Virginia.

iii. *Professional experience*. Dr. Dragan received her Ph.D. in Pharmacology and Toxicology from the Medical College of Virginia in 1988. She performed postdoctoral work in the Department of Oncology at the University of Wisconsin in Madison at the McArdle Laboratory for Cancer Research from 1988 until 1998. She was a member of the School of Public Health faculty at the Ohio State University from 1998 until 2001. Dr. Dragan is currently the Director of the Program in Hepatotoxicity at the National Center for Toxicological Research in Jefferson, AR. She has held her current position at NCTR since 2002 and is an adjunct Associate Professor in Pharmacology and Toxicology at the University of Arkansas for Medical Sciences.

3. *Nominee*. Haschek-Hock, Wanda M., Ph.D., Director, Graduate Training

Program in Toxicologic Pathology and Professor, Comparative Pathology, Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, IL.

i. *Expertise*. Pathology, veterinary diagnostic and toxicologic; mycotoxicology.

ii. *Education*. B.V.Sc., University of Sydney; Ph.D., Veterinary Pathology, Cornell University.

iii. *Professional experience*. Dr. Haschek-Hock has 30 years of experience in diagnostic and toxicologic pathology including teaching, research, and service. Her research has been in pathophysiology of chemicals and natural toxins found in the environment. Her current research focus is mycotoxins and food safety. Dr. Haschek-Hock has over 100 scientific peer-reviewed publications in the fields of pathology and toxicology, and is senior editor of the *Handbook of Toxicologic Pathology* (1991, 2002), and *Fundamentals of Toxicologic Pathology* (1998). She developed and directs the Graduate Training Program in Toxicologic Pathology and the biannual international Continuing Education Course in Industrial Toxicology and Pathology. She was Head of the Department of Veterinary Pathology at the University of Illinois for 6 years. She has served as President of the Society of Toxicology's Comparative and Veterinary Specialty Section; on the Board of Directors of the American Board of Toxicology; as Associate Editor for Toxicological Sciences; as an Editorial Board member for *Fundamental and Applied Toxicology*, *Veterinary Pathology*, and *Toxicologic Pathology*. Dr. Haschek-Hock also has served as Councilor of the American College of Veterinary Pathologists and as Councilor and, currently, Secretary Treasurer of the Society of Toxicologic Pathology. She recently served on the FDA Veterinary Medicine Advisory Committee for the Center for Veterinary Medicine.

4. *Nominee*. Songer, J. Glenn, Ph.D., Professor, Department of Veterinary Science and Microbiology, University of Arizona, Tucson, AZ.

i. *Expertise*. Infectious disease epidemiology and diagnosis, pathogenesis of gram-positive bacterial infections, clostridial toxins, clostridial enteric disease.

ii. *Education*. B.S., Biology, Mid-America Nazarene College; M.A., Preventive Medicine, University of Texas Medical Branch; Ph.D., Veterinary Microbiology, Iowa State University.

iii. *Professional experience*. Dr. Songer's research has focused on two

primary areas. The major emphasis at present is elucidation of the role of membrane active bacterial toxins in pathogenesis of animal disease. In addition, he has developed and applied *in vitro* methods, including rapid molecular approaches, to diagnosis of animal disease. Dr. Songer is a member of the American Society for Microbiology, the American Association of Veterinary Laboratory Diagnosticians, the Conference of Research Workers in Animal Disease, the U.S. Animal Health Association and is a Fellow of the American Academy of Microbiology. He has authored and co-authored numerous papers in his field during the past 20 years. He has served on numerous national and international panels on matters of interest in his field including committees and panels for USDA and NIH.

5. *Nominee*. Woods, Leslie Willis, D.V.M., Associate Professor, Clinical Diagnostic Pathology, California Animal Health and Food Safety Laboratory System, School of Veterinary Medicine, University of California, Davis, CA.

i. *Expertise*. Toxicology and infectious diseases in mammalian wildlife and avian species.

ii. *Education*. B.A., Chemistry, University of San Diego; D.V.M., University of California, Davis; Ph.D. in Comparative Pathology, University of California.

iii. *Professional experience*. Dr. Woods became a professor of clinical diagnostic pathology in 1997 and has a joint appointment at the California Animal Health and Food Safety Laboratory System and the Pathology, Microbiology, and Immunology Department in the School of Veterinary Medicine, University of California. Her research interests are in infectious diseases and toxicoses of wildlife and exotic and companion avian species, and infectious diseases of mammalian wildlife species. Dr. Woods discovered and described a new adenoviral hemorrhagic disease of deer that has been responsible for high mortality in the mule deer species in the western United States. Dr. Woods' other area of interest is toxicology. Her graduate research program included *in vitro* and *in vivo* studies using respiratory toxins. Dr. Woods has been a Diplomate of the American College of Veterinary Pathologists since 1993.

#### List of Subjects

Environmental protection, pesticides and pests.