

ZHISHENG JIANG, PhD

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EDUCATION

- B.S. in Biology, Central China Normal University, China, 1987
- M.S. in Environmental Biology, minor in Environmental Toxicology, Nankai University, China, 1994
- Ph.D. in Entomology, minor in Insecticide Toxicology, Nankai University, China, 1997

RELEVANT GRADUATE COURSEWORK

- Advanced Insect Physiology
- Aquatic Toxicology
- Environmental Toxicology
- Insect Neurophysiology
- Molecular Biology
- Environmental Chemistry
- Method of Insect Neurophysiology
- Molecular Toxicology of Insecticide
- Research Approach to Insect Toxicology
- Pollution Ecology

PROFESSIONAL EXPERIENCE

- Postdoctoral Researcher, Louisiana State University, 2004-present
- Associate Professor, Nankai University, 1999-2004
- Postdoctoral Fellow, South China Agricultural University, 1997-1999
- Research Assistant, Nankai University, 1995-1997
- Graduate Assistant, Nankai University, 1992-1994
- Assistant Professor, Xiaogan University, 1987-1991

FIELD OF SPECIALIZATION

- Insecticide bioassay
- Cell culture and insect culture

- HPLC and GC separation and purification of biological samples
- Kinetic and diagnostic assay of proteinases and enzyme inhibitors
- Biochemical characterization of proteins by SDS-PAGE
- Pesticide residual analysis by monoclonal antibody techniques (undertaking)
- Patch clamp technique (undertaking) and other neurophysiological techniques

SPECIALIZATION AND AERAS OF INTEREST

- **Research:** Novel Insecticide Discovery, Insect Toxicology, Biochemical and Electro-Physiological Mechanisms of Insecticide Resistance in Insects, Insect Growth Regulator, Pesiticide Residual Analysis by New Technologies
- **Teaching:** Pesticide Biology, Insect Toxicology, Molecular Toxicology of Insecticide, Insect Pest Management

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Entomological Society of China
- Plant Protection Society of China

GRANTS

- Principal Investigator: Study on ultrasensitive immunoassay of trace pesticides in vegetable and fruits. National Natural Science Foundation of China. 2003-2005
- Principal Investigator: Electrophysiological mechanism of action of a typical thiophene compound against insect pests by light-activated. Natural Science Foundation of Tianjin to Young Scholars, China, 2000-2002
- Principal Investigator: Toxicological studies of effects of typical light-activated insecticides on biological membrane system. National Natural Science Foundation of China. 2000-2002