Name: Shouan Zhang

Title and department: Assistant Professor, Plant Pathology

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Education:

B.S. China Agricultural University, Beijing, China
M.S. China Agricultural University, Beijing, China
Ph.D. Auburn University, Auburn, AL

Research Interests *(with focus on Tropical Agriculture)*

My research interests center on integrated disease management of vegetable crops in south Florida, including etiology, epidemiology, and management of vegetable diseases. Currently, I am conducting research on evaluation of biorational agents for control of fungal and viral diseases on tomato and squash, and the physiological and molecular mechanisms of disease suppression. The goal of my research is to develop cost-effective and environmentally sound disease management strategies for vegetable growers.

Publications

- Zhang, S. and D. Zaitlin. 2008. Genetic resistance against *Peronospora tabacina* in *Nicotiana langsdorffii*, a South American wild tobacco. Phytopathology. (in press)

- Zhang, S., D. A. Schisler, M. J. Boehm and P. J. Slininger. 2007. Utilization of chemical inducers of resistance and *Cryptococcus flavescens* OH 182.9 to reduce Fusarium head blight under greenhouse conditions. Biological Control 42: 308-315.

- Kloepper, J. W., C. M. Ryu and S. Zhang. 2004. Induced systemic resistance and promotion of plant growth by *Bacillus* spp. Phytopathology 94: 1259-1266.

- Zhang, S. and G. W. Sundin. 2004. Long-term effect of mutagenic DNA repair on the accumulation of mutations in *Pseudomonas syringae* B86-17. Journal of Bacteriology 186: 7807-7810.

- Zhang, S. and G. W. Sundin. 2004. Mutagenic DNA repair potential in *Pseudomonas* spp. and characterization of the *rulAB*$_{PC}$ operon from the highly mutable strain *P. cichorii* 302959. Canadian Journal of Microbiology 50: 29-39.

Teaching Interests *(with focus on Tropical Agriculture)*

Although I have no formal teaching assignments, I have a great interest in advising graduate students in the field of plant pathology. Also I enjoy interacting with growers and delivering important knowledge of disease management. I am a member of the Dade County AGRI Council Board of Directors, and I provide consultation on plant disease problems for agricultural community of growers, researcher & industry.

<u>Extension/Outreach Interests</u> (with focus on Tropical Agriculture)

My extension program includes 1) identification and management of major diseases of vegetables in south Florida; 2) educate vegetable growers for disease identification and management; and 3) diagnosis of vegetable diseases submitted to Plant Diagnostic Clinic.