

FRANK F. WHITE

Professor

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PROFESSIONAL PREPARATION

University of Wisconsin -	Madison	Molecular Biology	B.S. w/honors 1974
University of Washington	Seattle	Microbiology	Ph.D 1981
University of Washington	Seattle	Microbiology	1981-1985

APPOINTMENTS

University of Florida	Plant Pathology	2015-present
Kansas State University	Plant Pathology	Emeritus
Kansas State University	Plant Pathology	Full Prof. 2001-2015
Kansas State University	Plant Pathology	Associate Prof. 1991-2001
Kansas State University	Plant Pathology	Assistant Prof. 1985-1991

PRODUCTS

Five products most closely related to current proposal:

- Bezruczyk M, Yang J, Eom JS, Prior M, Sosso D, Hartwig T, Szurek B, Oliva R, Vera-Cruz C, **White FF**, Yang B, and Frommer WB. 2018. Sugar flux and signaling in plant-microbe interactions. *Plant J.* 93:675-685.
- Jia H, Zhang Y, Orbović V, Xu J, **White FF**, Jones JB, Wang N. Genome editing of the disease susceptibility gene *CsLOB1* in citrus confers resistance to citrus canker. *Plant Biotechnol J.* 15(7):817-823.
- Peng Z, Hu Y, Xie J, Potnis N, Akhunova A, Jones J, Liu Z, **White FF**, and Liu S. 2016. Long read and single molecule DNA sequencing simplifies genome assembly and TAL effector gene analysis of *Xanthomonas translucens*. *BMC Genomics.* 17:21.
- Zhang J, Carlos Huguet-Tapia J, Hu Y, Jones J, Wang N, Liu S, **White FF**. 2016. Homologs of *CsLOB1* in citrus function as disease susceptibility genes in citrus canker. *Mol Plant Pathol.* 18(6):798-810.
- Zhou J, Peng Z, Long J, Sosso D, Liu B, Eom JS, Huang S, Liu S, Vera Cruz C, Frommer WB, **White FF**, and Yang B. 2015. Gene targeting by the TAL effector PthXo2 reveals cryptic resistance gene for bacterial blight of rice. *Plant J.* 82: 632-463.

Five additional products:

- **White FF**, Jones JB. 2018. One effector at a time. *Nat Plants.* 4(3):134-135.
- Falahi Charkhabi N, Booher NJ, Peng Z, Wang L, Rahimian H, Shams-Bakhsh M, LiuZ, Liu S, **White FF**, and Bogdanove AJ. 2017. Complete genome sequencing and targeted mutagenesis reveal virulence contributions of Tal2 and Tal4b of *Xanthomonas translucens* pv. *undulosa* ICMP11055 in Bacterial Leaf Streak of Wheat. *Front Microbiol.*;8:1488.
- Huang S, Antony G, Li T, Liu B, Obasa K, Yang B, and **White FF**. 2016. The broadly effective recessive resistance gene *xa5* of rice is a virulence effector-dependent quantitative trait for bacterial blight. *Plant J.* 86:186-194.
- Huguet-Tapia JC, Peng Z, Yang B, Yin Z, Liu S, and **White FF**. 2016. Complete genome sequence of the African strain AXO1947 of *Xanthomonas oryzae* pv. *oryzae*. *Genome Announc.*; 4. e01730-15.

- Schwartz AR, Potnis N, Timilsina S, Wilson M, Patané J, Martins J Jr, Minsavage GV, Dahlbeck D, Akhunova A, Almeida N, Vallad GE, Barak JD, **White FF**, Miller SA, Ritchie D, Goss E, Bart RS, Setubal JC, Jones JB, and Staskawicz BJ. 2015. Phylogenomics of *Xanthomonas* field strains infecting pepper and tomato reveals diversity in effector repertoires and identifies determinants of host specificity. *Front Microbiol.* 6:535.

SYNERGISTIC ACTIVITIES.

- 1) Teaching Activities:** Team teaches graduate level course PLP 6441 Plant Pathogenic Bacteria at UF. At KSU, taught PLPTH 840 Plant Pathogenic Bacteria, and organized and team taught PLPTH910 Molecular Plant-Microbe Interactions; organized and taught PLPTH912 Molecular Approaches to Plant Pathology.
- 2) Training Activities:** Participant in graduate student training. Invited lecturer and seminar speaker for the Temasek Life Sciences Laboratory at the Singapore National University for the PhD Module BL5221 - Plant and Microbial Development, Jan 25-26, 2016.
- 3) Fostering Undergraduate Research:** Sponsor two undergraduate researchers at UF. At KSU, sponsored six undergraduate Developing Scholars at KSU. Participated in the KSU Summer Undergraduate Research Opportunities Program (SUROP)
- 4) Service to the Scientific Community:** Serve each year on numerous granting agency review panels for NSF, USDA, state, and international entities. Memberships in American Phytopathological Society (Fellow); American Society of Microbiology; American Society of Plant Biologists; American Association for the Advancement of Science (Fellow), and International Society for Molecular Plant-Microbe Interactions. Steering Committee- FAPESP Functional Genomic Program for *Xylella fastidiosa* (02/01-02/2006). Senior Editor and Editor for *Molecular Plant-Microbe Interactions* (2001-2006).
- 5) Contributions to the Science of Learning:** Participates in the Girls Researching Our World (GROW) summer program for 6-8th grade girls. Taught introductory section in Biotechnology & Genetic Engineering to high school science teachers. Served as judge in Kansas Junior Academy of Science annual science fair at Wichita State University (2011, 2013).