## THE CENTER

The largest USDA-ARS
research center west of the
Mississippi. Central to the
nation's most diverse and
productive agriculture and to
high-technology innovation
leaders. More than 250 scientists
in plant biochemistry, genetics,
molecular biology, natural product
chemistry, microbiology, chemical
engineering, and ecology.



### MISSIONS

Novel foods, crop refining, crop improvement, understanding gene structure, cell wall architecture and other features of plants that are critical to use in foods, feed, biofuels and biobased products. The Center also emphasizes food safety and biological control of invasive weed, insects and diseases.

INNOVATION FOR FOOD

AND AGRICULTURE:

GROWERS-PROCESSORS-CONSUMERS



Modern laboratories, pilot plants and greenhouses, functional genomics and sequencing, mass spectrometry-based proteomics, bioinformatics, bio-safety rated small animal facility, NMR, electron microscopy, and other advanced instrumentation.

# COLLABORATORS & PARTNERS

Businesses, federal agencies, state and local governments, and universities. International collaborations with European Union, Former Soviet Union countries and the Pacific Rim. More than 20 Cooperative Research and Development Agreements (CRADAs) for technology transfer.

#### CONTACT

www.ars.usda.gov/pwa/wrrc (daily updates)





**INNOVATION FOR FOOD** AND AGRICULTURE: GROWERS-PROCESSORS-CONSUMERS



### **CENTER DIRECTOR** JAMES N. SEIBER

jseiber@pw.usda.gov www.ars.usda.gov/pwa/wrrc



BIOPRODUCT CHEMISTRY & ENGINEERING

New products, biobased products and biofuels from grains and crop residues. William Orts orts@pw.usda.gov

CROP MPROVEMENT/UTILIZATION

Biochemical and molecular approaches to enhance agronomic performance and uses of crop plants.

Maureen Whalen mwhalen@pw.usda.gov

EXOTIC & INVASIVE WEEDS

Novel methods for managing exotic and invasive rangeland and aquatic weeds.

Ray Carruthers ric@pw.usda.gov

Foodborne Contaminants Research

Better food security and safety by improvements to existing and creation of new technologies for analysis of pathogens, prions, and toxins

Mark Carter mcarter@pw.usda.gov

GENOMICS & GENE DISCOVERY

Molecular, genomic, and bioinformatic strategies to enhance agronomic performance and end uses of cereal crops

Olin Anderson oanderson@pw.usda.gov

PLANT MYCOTOXIN RESEARCH

Combat mycotoxin contamination of foods by inhibiting fungal growth and mycotoxin synthesis, controlling insect pests and removing contaminated products.

Bruce Campbell bcc@pw.usda.gov

Processed Foods Research

New markets and healthfulness for grains, legumes, fruits and vegetables and their processed products

Tara McHugh thm@pw.usda.gov

Produce Safety and Microbiology Better safety of foods through intervention to control pathogenic bacteria and minimize naturally occurring or process-induced toxicants

Robert Mandrell mandrell@pw.usda.gov

TECHNOLOGY TRANSFER David Nicholson drn@pw.usda.gov

BIOBASED PRODUCTS & INDUSTRIAL CROPS ENVIRONMENTAL QUALITY & INVASIVE SPECIES HEALTHY FOODS BIOFUELS FOOD & CROP IMPROVEMENT FOR PRODUCTION & PROTECTION FOOD PROCESSING & FOOD SAFETY