

The United States Department of Energy's Role in Research and Innovation for a
Future Bio-economy

Sharlene C. Weatherwax, Ph.D.

Associate Director of Science for Biological and Environmental Research (BER)
Office of Science U.S. Department of Energy

Tel: 301-903-3251. sharlene.weatherwax@science.doe.gov

The mission of the U.S. Department of Energy is to ensure America's security and prosperity by addressing its energy, environmental, and nuclear challenges through transformative science and technology solutions. Within the Department, the Office of Science is the lead federal agency supporting fundamental scientific research for energy and the Nation's largest supporter of basic research in the physical sciences. The Office of Science portfolio has two principal thrusts: direct support of scientific research and direct support of the development, construction, and operation of unique, open-access scientific user facilities. The Office of Science's Office of Biological and Environmental Research supports DOE's mission of world-class scientific research capacity by providing world-class, peer reviewed scientific results in biology and environmental science. Basic biological and environmental research has broad impacts on our health, our environment, and our energy future. An ability to predict long-range and regional climate enables effective planning for future needs in energy, agriculture, and land and water use. Biotechnology solutions are possible for DOE energy, environmental, and national security challenges by understanding complex biological systems and developing computational tools to model and predict their behavior. Updates on recent research progress and science initiatives in bioenergy and climate research will be presented.

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