

Minnesota. At the University of Minnesota in St. Paul, there are two agriculture biotechnology research centers, *Food Animal Biotechnology Center (FAB Center)* and *Plant Molecular Genetics Institute*, which foster cooperative interactions among faculty at the university. The FAB Center has 34 faculty from the Colleges of Agriculture, Biological Sciences, Natural Resources, and Veterinary Medicine; and the Institute of Human Genetics. The faculty conducts research in the areas of animal health enhancement, diseases resistance, growth and reproduction modulation, and animal gene mapping. The Advanced Genetic Analysis Center provides biotechnology research services for university and industry scientists. The Plant Molecular Genetics Institute, with over 25 faculty, fosters research in molecular biology and genetics of economically important plants.

Nebraska. The Biotechnology Center at the University of Nebraska in Lincoln recently moved into the 14,000 sq. ft. George W. Beadle Center for Genetics and Biomedical Research. The Beadle Center contains seven core research facilities, a P3 laboratory, and greenhouses. The core research facilities are available to both university and industrial scientists. They consist of Cell Analysis, DNA Sequencing, Fermentation, Mass Spectrometry, Monoclonal/Polyclonal Antibodies, Nuclear Magnetic Resonance Spectroscopy, and Protein Sequencing/Peptide Synthesis. The 180 associated faculty represent 13 department at UNL.

North Dakota. At North Dakota State University in Fargo, the Biotechnology Institute coordinates biotechnology research and education at NDSU. The Biotechnology Institute has 50 scientists from six departments; four research facilities (Biopolymers Services Center, Cell Biology Center, Monoclonal Antibodies Service Center, and Electron Microscope Lab); and the Red River Valley Agricultural Research Center. UDSU is also the home of the Animal Metabolism-Agricultural Chemicals Bioscience Research Laboratory of the USDA.

Montana, South Dakota and Wyoming. Montana State University at Missoula, South Dakota State University at Brookings, and the University of Wyoming at Laramie are land grant colleges where agricultural teaching and research are organized along a traditional College of Agriculture format. Each college offers advanced degrees in the plant and animal sciences. The federal funded and private sponsored research are administered by Research Offices in academic administration.

Summary

Some of the nation's leading research centers in animal health care and performance are located at the land grant universities in the North Central U.S. These same universities support cutting edge research in plant molecular biology and genetics. Several universities, most notably, Colorado State University, Iowa State University, North Dakota State University, University of Minnesota, and University of Nebraska, have developed research institutes to facilitate interactions between university and industrial scientist; to educate public officials and citizens about the new technology; and to promote the commercial development of agricultural biotechnology. To learn more about the research being conducted at these institutions, contact the individuals listed in Appendices B and D.