High Priority Issues (List is alphabetical, and all are considered equally important.)

- Alternatives to Medically-Important Antimicrobial Drugs (Including vaccines and vaccine development, bacteriophage and bacteriophage gene products, essential oils, immune enhancers, innate defense molecules, naturally-occurring antibacterial lytic enzymes, organic acids, phytochemicals, prebiotics, probiotics, small interfering RNAs, therapeutic antibodies, lytic enzymes, cytokines, and other novel products or applications.)
- Animal Welfare and Well-Being (Including evaluation of production systems for meeting animal welfare needs, pain management strategies, methods and evaluation of euthanasia techniques, risk factors for downer cows, and development of science-based animal care guidelines for promoting food animal welfare.)
- Antimicrobial and Antiparasitic Drugs: Judicious Use, Stewardship and Resistance (Including education, outreach, and policy focus)
- Disease Prevention, Control & Surveillance (Including pathogen isolation and characterization, development of surveillance methods, vaccine development and vaccination delivery systems, and development and validation of diagnostic tests.)
- Endemic and Production-Limiting Diseases of Food-Producing Animals
- Environmental & Ecosystem Health Issues (Including water recycling and reuse involving animal agriculture and production systems; land, air, water, nutrient, & microbial management.)
- Extend science needed for guiding public policy development related to food animal health, animal agriculture, and food safety (Including all commodity groups: aquaculture, beef cattle, dairy cattle, goats, poultry, sheep.)
- Identification, Detection, & Elimination of Residues (Including hormones.)
- Integration of animal health and well-being with One Health concepts related to agricultural animals (such as zoonoses, occupational and environmental health)
- On-Farm Food Safety Issues (Including microbial and other hazards related to food-borne illnesses.)
- Small-Scale Production Systems (Including impacts and interactions with conventional or large-scale food animal production systems.)
- Sustainable Production Systems (Including profitability, nutrition/nutrient management and manure management; other environmental concerns related to animal agriculture including air and water quality issues.)
- Systems Analysis and Modeling for Solving Complex Food Animal Disease and Production Problems (Including preparedness for incursions of exotic or transboundary diseases.)
- Transboundary and Emerging Diseases of Agricultural Animals (Including infectious, zoonotic, exotic, and vector-borne diseases.)

Lower Priority Issues

- Food Animal Agriculture Literacy (Including outreach to students and colleagues in veterinary profession)
- Food & Feed Systems Security (Including biodefense of food systems and food quality.)

Technologies

- Advanced Mathematical and Simulation Modeling Technologies
- Advanced Molecular Technologies
- Ecosystem Health Technologies
- Genomics/Proteomics/Metabolomics/Bioinformatics
Strategies

- Biosecurity for Disease Control (Including on-farm and supply chain protection of feed and other products that enter or interface with the food production system)
- Certification/Quality Assurance
- Educational Outreach (Including just-in-time education learning systems)
- Emergency Planning & Response (Including managed movement and business continuity plans)
- Production Systems Management