Iowa Livestock Health Advisory Council (ILHAC)
Research Priorities: 2018

SWINE:
1. Animal Well-being (analgesics for castration, sow housing, pain relief)
2. Antimicrobial Resistance (monitoring antibiotic use, looking for information/data to counteract misinformation, prevention control treatment, proof that drugs (antibiotics) are used properly, variability of normal dose)
3. PEDv
4. PRRS
5. Swine Influenza (new vaccine technologies-intranasal product)
6. Methicillin-resistant *Staphylococcus aureus* (MRSA)
7. *Clostridium difficile*
8. *Mycoplasma hyopneumoniae*
9. Seneca Valley Virus

DAIRY CATTLE:
1. Animal Well-being Issues
   a. Mastitis
   b. Lameness
   c. Respiratory Disease
   d. Discover or develop an FDA approved analgesic for food-producing animals
2. Johne’s Disease
3. *Mycoplasma bovis*
4. Antimicrobial Resistance (monitoring antibiotic use, looking for information/data to counteract misinformation, prevention control treatment, proof that drugs (antibiotics) are used properly, variability of normal dose)

BEEF CATTLE:
1. *Anaplasmosis*
2. Digital Dermatitis (hairy heel wart)
3. *Trichomiasis* (surveillance, identification/verification-cost effective manner)
4. Animal well-being issues
5. Bovine Respiratory Disease (BRD)/*Mycoplasma bovis*

POULTRY:

All Poultry
1. Avian Influenza infections – Low Path Avian Influenza (LPAI) and High Path Avian Influenza (HPAI) epidemiology, prevention and control.
2. Antimicrobial resistance and antibiotic substitutes in poultry production
3. Animal well-being

**Turkeys**
1. Colibacillosis or fowl cholera
2. *Clostridium* - Dermatitis or cellulitis.
3. ORT (*Ornithobacterium rhinotracheale*)
4. Coccidiosis
5. Turkey Reovirus Digital Flexor Tendon Rupture (TR-DFTR)

**Layers and Broilers**
1. *E. coli* Peritonitis (#1 disease raised by veterinarians in egg production)
2. Internal Parasites – including Coccidiosis and round worms. It is believed these challenges will only become greater with the increased prevalence of Cage-free production. At the present time, there are no treatments available.
3. Clostridial infection: necrotic enteritis and Focal Duodenal Necrosis (FDN)
4. Food Safety - *Salmonella spp.* (SE and SH)

**SHEEP AND GOATS:**
1. Improved treatment for parasite diseases, and genetic research and EBV’s for parasite resistance in sheep.
2. Barn Cough (Pneumonia, *Mycoplasma* – isolate vaccine, differences between two)
3. Abortions - Cache Valley (and partial abortions), “Pregnancy Wastage” (neonatal death, failure to dilate)
4. Genetic Tibular Dysplasia in Polypay Sheep

**IVMA CONCERNS: Represents all species**
1. Animal Well-being
   a. Pain Control
   b. Lameness
2. Seneca Valley Virus
3. *Trichomiasis*
4. Methicillin-resistant *Staphylococcus aurerus* (MRSA)
5. Johne’s Disease
6. Anthelmintic resistance