Summary of BVDV 2006 Symposium: Research Priorities and Funding Sources
BVDV Control

- Control strategies and programs
- Diagnosis and surveillance
- BVDV vaccines
- BVDV in other species (besides cattle)
- Economics of BVDV
Issues for Discussion: (A) Basis for Control/Eradication

- Demonstration to stakeholders for value of control measures, *likely not now unanimous*
  - Proof of economic losses to BVDV
  - Beef breeding herd, stocker operators and feedlots
  - Dairy operations
- Role of current North American cattle marketing methods to BVDV control
Issues for Discussion: (B)
Diagnostic tests

- Do we now have diagnostic tests available to proceed with control?
Issues for Discussion: (B)

- Do we now have diagnostic tests available to proceed with control?
- Emerging tests
  - Antigen detection
  - PCR tests for viral genome
  - Others???
- Pooling and/or individual animal testing
Issues for Discussion: (C)
Vaccines and Immunity

- Vaccines
  - Do current vaccines work!
  - Or is it lack of proper use?
Issues for Discussion: (C)

- Innovative Vaccines
  - Recombinant
  - Subunit
  - Plasmid based
  - To be developed

- Efficacy: Move beyond acute challenge
  - Demonstrate fetal protection
  - Use PI cattle as challenge
  - Diversity of BVDV strains in cattle
Issues for Discussion: (C)

- Overcoming maternal immunity as blockage to protective immunity
- Adjuvants to enhance immunity for vaccines
- Environmental/nutrition effects on immunity and vaccine response
Issues for Discussion: (D) Non Bovine Hosts

- Role of wildlife species in control and eradication programs
  - Possibility vs Probability
Issues for Discussion: (E)
Can we make it pay?

- Economics of control
  - When is in depth testing recommended?
- Cost benefit to testing for control
- Can certified free herds be maintained and at what level of testing?
Issues for Discussion: (F) Opportunities/ Threats

- Awareness of industry to issues
- Lack of animal identification programs
- Lack of role of BVDV as a public health concern to human health
- Success of BVDV control could be model to other infectious disease control programs
Who pays for research?
And For What Projects?

- USDA grants
- USDA ARS
- NIH
  - Animal model
  - Training grants
  - Facility grants
- State governments : AES
- Industry groups
- Commercial firms
- Wildlife agencies
- Private foundations