

2008 SERA-IEG8 Meeting reports

**State Organization Reports**

**1. ARKANSAS**

- 1.1 Summer dormancy and survival of tall fescue in relation to endophyte presence
- 1.2 Performance by Spring and Fall-Calving Cows Grazing with Full Access, Limited Access, or No Access to Endophyte-Infected Fescue
- 1.3 Post-Weaning Performance of Spring-Born Calves Weaned from Tall Fescue Pastures with a Wild-Type Toxic Endophyte or a Non-Toxic Novel Endophyte
- 1.4 Post-Weaning Performance of Fall-Born Beef Steers Weaned from Endophyte-Infected Tall Fescue Pastures on Different Dates in the Spring

**2. GEORGIA**

- 2.1 Environmental and production responses from tall fescue-endophyte associations in Georgia
- 2.2 Biocontrol of nematodes in tall fescue with fungal endophytes
- 2.3 Endophyte survival during seed storage: endophyte/host interactions and heritability

**3. ILLINOIS**

- 3.1 Effects of Ergotamine-D Tartrate on Bovine Oocyte Maturation

**4. KENTUCKY**

- 4.1 A Method for Gas Chromatographic Analysis of  $\gamma$ -aminobutyric Acid in Tall Fescue Herbage
- 4.2 GABA in Herbage of Field Grown Endophyte-free and Endophyte-infected Tall Fescue
- 4.3 Performance and Physiology of Steers Grazing Toxic Tall Fescue as Influenced by Feeding Soybean Hulls and Steroidal Implants
- 4.4 Endophyte Effects on Litter Decomposition Rates and Soil Carbon Pools in Southeastern U.S. Tall Fescue Pasture
- 4.5 Effects of the Herbicides Plateau and Cimarron on Pregnancy Maintenance in Broodmares
- 4.6 Tall Fescue Seed Head Suppression with Chaparral
- 4.7 Eliminating ergot alkaloid biosynthesis in the tall fescue endophyte
- 4.8 Genome and transcriptome sequencing of *Epichloe festucae*
- 4.9 Response of Bovine Vasculature to Tall Fescue Alkaloids

**5. MISSISSIPPI**

- 5.1 Evaluation of Elite Tall Fescue Cultivars under Stockpiling Conditions: P removal and Aggregate Stability
- 5.2 Evaluation of Elite Tall Fescue Cultivars Under Stockpiling Conditions

5.3 Evaluation of a Novel, Non-Toxic, Endophyte-Infected Tall Fescue Cultivar, AGRFA-144, for Use in Horses

**6. MISSOURI**

6.1 Evaluation of physiological and blood serum differences in heat tolerant (Romosinuano) and heat susceptible (Angus) *Bos taurus* cattle for determination of markers of sensitivity

6.2 Impact of Dehydration on Production and Thermoregulation of Angus Steers at Thermoneutrality

6.3 Relationship of ergovaline and feed intake in rats at thermoneutrality

6.4 Feed intake component of fescue toxicosis during short-term exposure to thermoneutral and heat stress conditions

**7. NEW ZEALAND**

7.1 AgResearch, New Zealand report

**8. NOBLE FOUNDATION (OKLAHOMA)**

8.1 Development of non-toxic tall fescue cultivars

8.2 Identification and characterization of novel endophytes

8.3 Economics of grazing perennial vs annual grass systems

8.4 Species and variety response of cool season perennial forages to stockpiling

**9. OREGON**

9.1 16S rDNA microbiomic comparison of the intestine of the earthworm *Eisenia fetida* from two experimental vermicompost treatments

9.2 Design and evaluation of rpoB primers for DGGE analysis and cloning in microbial ecology

9.3 Influence of biofilm formation on a pyrrolizidine alkaloid-degrading consortium from the ovine rumen

9.4 Evaluation of bovine gene response to fescue toxicosis via expression microarrays

**10. TENNESSEE**

10.1 Efficacy of EndoFighter™ for Steers Grazing Jesup Endophyte-Infected Tall Fescue Pastures during Summer

10.2 A Genetic Marker for Resistance to Fescue Toxicosis in Beef Cattle

10.3 Tall Fescue Based Forage Systems with Rye/Ryegrass for Stocker Cattle

10.4 Semen Quality of Bulls grazing Tall Fescue Pastures