



23rd Discover Conference on Food Animal Agriculture:

Bovine Immunology: The Intersection of Innate and Acquired Immunity

May 29-June 1, 2012

Eaglewood Resort and Spa in Itasca, IL

Sponsored by the American Dairy Science Association®

Agenda Outline as of September 28, 2011

Tuesday, May 29, 2012

4:00 - 6:00 PM Registration, Red Oak Lobby

5:30 - 7:30 PM Opening Session

5:30 Hors d'oeuvres Reception. Red Oak Lobby

6:30 Welcome *Larry Miller, DISCOVER Conference Series and DC23 Co-chairs Chris Chase, South Dakota State University and Barry Bradford, Kansas State University*

6:40 Keynote address. Marcus Kehrli, USDA-ARS

7:30 ADJOURN remainder of evening free for dinner and networking

Wednesday, May 30, 2012

7:00 - 8:00 AM Continental breakfast, Red Oak Lobby

8:00 - 11:30 AM Session 1 - Immune System Effects on Calf Growth & Health. Moderator: Lorraine Sordillo, Michigan State University

8:00 Welcome and Announcements

8:10 Intro to immunology. Amelia Woolums, University of Georgia

8:55 Development of the immune system. *Chris Chase, South Dakota State University*

9:25 Effects of vaccination on growth in beef calves. D.L. Step, Oklahoma State University

9:55 BREAK

10:25 Discussion

11:30 LUNCH

12:45 - 4:45 PM Session 2 - Immunity in the Transition Period. Moderator: Barry Bradford, Kansas State University

12:45 Overview: what changes occur during this time; interactions with metabolism. Matt Waldron, University of Missouri

1:15 Innate immunity during this period. John Lipollis, USDA-ARS National Animal Disease Center

1:45 Discussion

2:30 BREAK

3:00 Acquired immunity during this period. Isis Mullarky, Virginia Tech

3:30 Physiology of reactive oxygen species in immunity. Lorraine Sordillo, Michigan State University

4:00 Discussion

4:45 ADJOURN

Thursday, May 31, 2012

7:00 - 8:00 AM Continental breakfast, Red Oak Lobby

8:00 - 11:30 AM Session 3 - Vaccine Responsiveness. Moderator: Amelia Woolums, University of Georgia

8:00 Vaccine formulation and delivery, especially related to mucosal immunity. Phillip Griebel, International Vaccine Centre

8:40 Bovine immunity to chronic infection. Ray Waters, USDA-ARS National Animal Disease Center

9:20 BREAK

9:50 Vaccine protocols in dairy calves - how much is too much? Jan Gawthrop, CalfCare

10:20 Discussion

11:30 LUNCH

12:45 - 2:30 PM Session 4 - Impacts of Genetics and Behavior on Immunity. Moderator: Clint Löest, New Mexico State University

12:45 Genetic contributions to disease resistance. Jim Reecy, Iowa State University

1:15 Genetic contributions to immunity. Larry Kuehn, U.S. Meat Animal Research Center

1:45 Discussion

2:30 ADJOURN - Remainder of afternoon free for group discussions/recreation

Friday, June 1, 2012

7:00 - 8:00 AM Continental breakfast, Red Oak Lobby

8:00 AM - 12:00 PM Session 5- Management Interactions with Immunity. Moderator: Matt Waldron, University of Missouri

8:00 Dietary antioxidants. Bill Weiss, The Ohio State University

8:30 Protein and energy nutrition effects on calf immunity. Monica Foote, FDA

9:00 Discussion

9:30 BREAK

10:00 Stress effects on immunity. Jeff Carroll, USDA-ARS

10:30 Yeast culture / probiotics. Al Kertz, Milk Specialties Inc.

11:00 Discussion/Wrap up

12:00 ADJOURN