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Food Animal Residue Avoidance Database (FARAD) and
One Health Curriculum Workshop
University of California, Davis
September 6 – 17, 2016



WEEK ONE

| Date | Time | Activity | Location |
|--------|---------------|--|------------------|
| Sept 7 | 9:00 – 9:45 | Introduction and Overview – <i>Bennie Osburn</i> | WIFSS Conf Room |
| | 9:45 – 10:15 | Ice Breaker - <i>All Participants</i> | WIFSS Conf Room |
| | 10:15 – 10:30 | BREAK | |
| | 10:30 – 11:15 | Veterinary Medicine and One Health – <i>Amanda Arens</i> | WIFSS Conf Room |
| | 11:15 – 12:00 | Group Discussion: Is One Health applicable in China? What are ways to apply One Health in NAU/UCD collaborations? | WIFSS Conf Room |
| | 12:00 – 1:30 | LUNCH | Local Restaurant |
| | 1:30 – 2:15 | Common Residue Problems in the USA (including beef, dairy, veal, poultry, swine) – <i>Jessica Light, Zoetis</i> | |
| | 2:15 – 2:45 | BREAK | WIFSS Conf Room |
| | 2:45 – 3:00 | Antibiotic Use in Food Animal Production: Regulatory Developments in the United States – <i>Ria de Grassi, Agricultural Issues & Policy Strategist</i> | WIFSS Conf Room |
| Sept 8 | 3:45 – 4:15 | Group Discussion: How are antibiotics regulated in China? Does China provide effective oversight of antibiotic use? | WIFSS Conf Room |
| | 9:00 – 9:45 | Overview of One Health Curricular Framework for WIFSS and NAU; Antibiotics Curriculum and Application of One Health – <i>John Angelos</i> | WIFSS Conf Room |
| | 9:45 – 10:00 | BREAK | WIFSS Conf Room |

| Date | Time | Activity | Location |
|--------|---------------|---|---------------------------------------|
| Sept 8 | 10:00 – 11:30 | Group Discussion: How can NAU and UCD work together to develop a One Health in Food Safety curriculum? | WIFSS Conf Room |
| | 11:30 – 1:30 | LUNCH | Local Restaurant |
| | 1:30 – 2:15 | Teaching Adult Learners An overview of effective teaching methods for adult learners studying complex topics such as One Health Food Safety <i>Heather Johnson</i> | WIFSS Conf Room |
| | 2:15 – 2:45 | BREAK | |
| | 3:00 – 3:45 | Discussion about the use of Hybrid (Blended) Learning with a UC Davis School of Veterinary Medicine faculty member who is currently teaching a hybrid class <i>Birgit Puschner</i> | WIFSS Conf Room |
| | 3:45 – 4:15 | Introduction Blended Learning Experience “Foodborne Outbreak Investigation” – <i>Heather Johnson and David Goldenberg</i> | WIFSS Conf Room |
| | 6:00 – 8:00 | DINNER | Seasons Restaurant 102 F St, Davis |
| Sept 9 | 9:00 – 9:45 | St. Patrick’s Day Revenge – <i>David Goldenberg</i> | WIFSS Conf Room |
| | 9:45 – 10:15 | Group Discussion: Blended Learning and its use in student instruction at NAU | WIFSS Conf Room |
| | 10:15 – 11:30 | Group Discussion: How is outreach used to implement change on dairies? <i>Michael Payne</i> | WIFSS Conf Room |
| | 11:30 – 12:00 | Group Discussion: How can NAU faculty implement improvements in agricultural industry practices? | WIFSS Conf Room |
| | 12:00 – 1:30 | LUNCH | Local Restaurant |
| | 1:30 – 4:00 | Group Discussion: Develop an Action Plan; Brainstorm Curriculum Development; Prioritize Next Steps for Curricular Development | WIFSS Conf Room |

WEEK TWO

| Date | Time | Activity | Location |
|---------|---------------|--|--------------|
| Sept 12 | 9:00 – 10:00 | Introduction and Discussion on Scientific Interests/Drug Regulatory Framework in China – <i>All Participants</i> | 2013 Valley |
| | 10:00 – 10:45 | FARAD Program Overview – <i>Lisa Tell</i> | 2013 Valley |
| | 10:45 – 1100 | BREAK | |
| | 11:00 – 12:30 | Videos (4) on FARAD Website; Review of FARAD Website and www.learnfarad.com ; Overview of Answering Extra-Label Drug Use Calls in the US – <i>Tara Marmulak, Lisa Tell</i> | 2013 Valley |
| | 12:30 – 1:30 | LUNCH | Open |
| | 1:30 – 3:00 | FARAD Farm Call Cases; High Dose; ELDU Cases – <i>Tara Marmulak</i> | 2013 Valley |
| | 3:00 – 3:15 | BREAK | |
| | 3:15 – 4:00 | FARAD Farm Call Cases, High Dose; ELDU Cases, Continued, and Low Dose ELDU Cases – <i>Tara Marmulak</i> | 2013 Valley |
| Sept 13 | 9:00 – 10:45 | FARAD Farm Call Cases, Unlabeled Species – <i>Tara Mamulak</i> | 2013 Valley |
| | 10:45 – 11:00 | BREAK | |
| | 11:00 – 12:30 | The Ins and Outs of FARAD's VetGram – <i>Carolyn Whitford (University of Florida)</i> | 2013 Valley |
| | 12:30 – 2:00 | LUNCH with Xinbin Chen's Laboratory Team | Location TBD |
| | 2:00 – 3:00 | FARAD Farm Call Cases, Unlabeled Species Continued. Extended Treatment Duration Cases – <i>Tara Marmulak</i> | 2013 Valley |
| Sept 14 | 9:00 – 10:45 | FARAD Farm Call Cases: Volume Per Injection Site – <i>Tara Marmulak</i> | 2013 Valley |
| | 10:45 – 11:00 | BREAK | |
| | 11:00 – 12:30 | FARAD Farm Call Cases: Beef Drugs in Dairy Cattle – <i>Tara Marmulak</i> | 2013 Valley |
| | 12:30 – 2:00 | LUNCH | Open |
| | 2:00 – 3:00 | Kinetic Database: UnScan It Program for Data Extraction WinNonLin; Interlocution to Full Extractions – <i>Scott Wetzlich and Maaike Clapham</i> | 2013 Valley |

| Date | Time | Activity | Location |
|---------|---------------|---|------------------------------|
| Sept 14 | 3:00 – 3:15 | BREAK | |
| | 3:15 – 4:00 | Kinetic Database: Full Extractions Continued – <i>Scott Wetzlich and Maaike Clapham</i> | 2013 Valley |
| Sept 15 | 9:00 – 10:45 | FARAD Farm Call Cases: Water Medication – <i>Tara Marmulak</i> | 2013 Valley |
| | 10:45 – 11:00 | BREAK | |
| | 11:00 – 12:30 | FARAD Farm Call Cases: Pesticide Spray – <i>Tara Marmulak</i> | 2013 Valley |
| | 12:30 – 2:00 | LUNCH | Open |
| | 2:00 – 3:00 | Kinetic Database: Full Extractions Continued – <i>Scott Wetzlich, Maaike Clapham</i> | 2013 Valley |
| | 3:00 – 3:15 | BREAK | |
| | 3:15 – 4:00 | Full Extractions Continued – <i>Scott Wetzlich, Maaike Clapham</i> | |
| | 5:30 – 7:30 | GROUP DINNER | Buckhorn Steakhouse, Winters |
| Sept 16 | 9:00 – 10:45 | FARAD Farm Call Cases: Prohibited Drugs and Unlabeled Administration Route – <i>Tara Marmulak</i> | 2013 Valley |
| | 10:45 – 11:00 | BREAK | |
| | 11:00 – 12:30 | FARAD Farm Call Cases: – Prohibited Drugs and Unlabeled Administration Route Continued – <i>Tara Marmulak</i> | 2013 Valley |
| | 12:30 – 1:30 | LUNCH | Open |
| | 1:30 – 3:00 | Wrap Up – <i>Lisa Tell, Tara Marmulak, Scott Wetzlich, Maaike Clapham</i> | 2013 Valley |

WORKSHOP PARTICIPANTS

John Angelos

Dr. John Angelos is Chair of the Department of Medicine and Epidemiology at the School of Veterinary Medicine and Professor of Veterinary Medicine, Infectious Diseases. His professional interests include internal medicine and infectious diseases of food producing animals and development of improved vaccination/vaccine delivery strategies to support sustainable food production practices. At WIFSS Dr. Angelos serves as a subject matter expert in livestock veterinary practice and food safety. He is a Diplomate of the American College of Veterinary Internal Medicine (Large Animal).

Amanda Arens

Dr. Amanda Arens is Program Manager at the Western Institute for Food Safety and Security, (WIFSS), and provides coordination and oversight for outreach projects, and a team of scientific researchers and educational specialists. Additionally, she provides expertise and experience in program development, assessment and evaluation. Dr. Arens has a strong research background in translational medicine and her current position places her at the interface of humans, animals and the environment in a One Health approach to food safety.

Ruibing Cao

Dr. Ruibing Cao is Vice Dean of the College of Veterinary Medicine at Nanjing Agricultural University. His research focuses on the epidemiology, infection and immunity of Japanese encephalitis virus and duck Tembusu virus.

Xinbin Chen

Dr. Xinbin Chen is Professor at UC Davis Schools of Medicine and Veterinary Medicine. He is leader of the Comparative Oncology Program at the two schools. The comparative oncology program has the goal of drawing on key strengths of UC Davis in animal research pertaining to the disease mechanisms that are implicated in the genesis and progression of cancer. Dr. Chen's research focuses on the function of the p53 family in tumor suppression, development, and aging.

Maaiké Clapham

Maaiké Clapham has a Bachelor's of Science in Animal Science and Management with an emphasis in livestock from University of California, Davis. As an undergraduate at UC Davis she was a student manager of the UC Davis Swine Center and a necropsy technician at California Animal Health and Food Safety Laboratory. She is currently a research assistant within the FARAD laboratory, additionally she manages the T.S. and K.D. Glide Foundation which is home to 120 horses and other animals.

Ria de Grassi

Ria de Grassi, M.S., is an agricultural issues and policy strategist who consults on special projects vital to agricultural research, animal health and welfare, and food and agriculture critical infrastructure. Ms. de Grassi worked for an agricultural nonprofit for more than 25 years representing the food animal sector. She helped initiate the California Dairy Quality Assurance Program and continues to advise the School of Veterinary Medicine's Center for Food Animal Health at UC Davis.

David Goldenberg

David Goldenberg is an instructor in food safety with the Western Institute for Food Safety and Security. He contributes to food safety projects for the U.S. Food and Drug Administration (FDA) Integrated Food Safety System (IFSS). He is involved in the produce investigations course and is working on integrating video and table top exercises to enhance adult learning principles.

Heather Johnson

Heather Johnson, M.S., is an instructional systems designer and educational specialist at WIFSS. She oversees the instructional design component of WIFSS training and educational projects in accordance with certification standards that meet local, state and federal agency requirements. She designs blended learning educational materials specifically using principles of adult education.

Jessica Light

Dr. Jessica Light is a Senior Veterinarian in the Zoetis Dairy Technical Services Team. Dr. Light works with veterinarians and dairy producers to improve dairy cattle care and productivity. She currently serves on the Agriculture Committee of the California Veterinary Medical Association and as a Zoetis Master.

Tara Marmulak

Dr. Tara Marmulak is the Food Animal Residue Avoidance & Depletion (FARAD) Coordinator in the Department of Medicine and Epidemiology at UC Davis, School of Veterinary Medicine. She advises veterinarians on appropriate withdrawal intervals for extra label drug use in food animals. Dr. Marmulak's background as a pharmacist and resident in veterinary medicine make her uniquely qualified to assess the pharmacokinetics of drugs in food animals.

Bennie Osburn

Dr. Bennie Osburn is Director of Outreach and Training at the Western Institute for Food Safety and Security. He is Dean Emeritus of the School of Veterinary Medicine, UC Davis. Dr. Osburn's research has focused on infectious diseases of livestock, zoonotic diseases, including foodborne pathogens, and the ecology of infectious agents. He is interested in applying a One Health approach to food safety.

Michael Payne

Dr. Michael Payne is a researcher and outreach coordinator at WIFSS. Dr. Payne has worked as a veterinarian in extension, academics and private practice. He is director of the California Dairy Quality Assurance Program, an industry, academic regulatory partnership which promotes the health and welfare of livestock, consumers and the environment through outreach, education and research.

Birgit Puschner

Dr. Birgit Puschner, Professor, and Chair, of the Department of Molecular Biosciences, School of Veterinary Medicine, focuses her research on diagnostic veterinary toxicology; poisonous plants; algal toxins; and natural toxins. She teaches toxicology in the veterinary professional curriculum and pharmacology and toxicology in the graduate curriculum. In the past 3 years, she developed an undergraduate course that utilizes online and hybrid teaching modalities to provide an introductory course in toxicology/pharmacology.

Lisa Tell

Lisa Tell, DVM, has been a UC Davis School of Veterinary Medicine faculty member since 1997. She is board certified with the American College of Zoological Medicine and the American Board of Veterinary Practitioners (Avian Specialty). Her academic research career initially focused on treatment of avian infectious diseases and evolved into drug residues in animal derived human food products. She is currently the director of the Western Region Food Animal Residue Avoidance and Depletion program that focus on public health and mitigating drug residues in animal derived food products.

Liping Wang

Dr. Liping Wang is a professor in the College of Veterinary Medicine at Nanjing Agricultural University. Her research focuses on establishing information systems on antimicrobial use and the emergence of bacterial resistance in animal populations in China. Dr. Wang studies the association between drug exposure and the emergence of bacterial resistance in animal populations under different dosage regimen conditions.

Scott Wetzlich

Scott Wetzlich is a staff research associate in the Department of Medicine and Epidemiology at the UC Davis School of Veterinary Medicine. He manages the research activities in the laboratory of Dr. Lisa Tell which includes FARAD and the minor use /minor species animal drug program (NRSP-7). He has 28 years of analytical experience focused on projects related to obtaining drug approval for minor food animal species.

Carolyn Whitford

Carolyn Whitford is an IT Project Manager at the University of Florida and provides database and web site support for FARAD. She is responsible for updating the SQL data used for VetGRAM applications and oversees the development of the Android and Apple versions. She also perpetuates the FARAD website, Facebook Page and Twitter accounts. Carolyn has been with FARAD since April of 1999.

Ruqian Zhao

Dr. Ruiqian Zhao is a professor in the Laboratory of Animal Physiology and Biochemistry in the College of Veterinary Medicine at Nanjing Agricultural University. Her research focuses metabolic and biochemical pathways in lactating adults and neonatal animals. She also has served as an administrator in the College of Veterinary Medicine.