

CURRICULUM VITA
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BUSINESS ADDRESS

Utah Veterinary Diagnostic Laboratory
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PRESENT POSITION

2009 - Present Full Professor, Department of Animal, Dairy, & Veterinary Sciences, Utah Veterinary Diagnostic Laboratory, Utah State University. Logan, Utah.

- Position is 55% Extension Diagnostic Veterinary Toxicologist, 25% Research, 15% Teaching, and 5% University Service.
- Diagnostic Toxicology: Implement, direct and supervise all toxicology services of the laboratory. This includes assistance with necropsy activities, equipment procurement and maintenance, analytical methods development, QA/QC, performing chemical/analytical testing, producing case interpretations/reports, consultation/communication with veterinarians/animal owners/regulatory agencies, and perform other educational outreach.
- Research: Direct and supervise a research laboratory. This includes securing funding, supervising graduate research, publication of data, and involvement in collaborative efforts. The primary focus of my laboratory is on natural toxins, minerals, dietary materials, and their interactions.
- Teaching: Direct and teach ADVS 5350/6350, as well as provide guest lectures in several other classes.

PREVIOUS POSITIONS

2002 - 2009 Associate Professor: Department of Animal, Dairy, & Veterinary Sciences, Utah Veterinary Diagnostic Laboratory, Utah State University. Logan, Utah.

1996 - 2002 Assistant Professor: Department of Animal, Dairy, & Veterinary Sciences, Utah Veterinary Diagnostic Laboratory, Utah State University. Logan, Utah.

1996 Research Associate: Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois. Urbana-Champaign, Illinois.

1994 to 1995 Associate Director of Toxicology Services: National Animal Poison Control Center. Department of Veterinary Biosciences, College of Veterinary Medicine, University of Illinois. Urbana-Champaign, Illinois.

1988-1994 Teaching Associate in Toxicology and Diagnostic Toxicology: Department of Veterinary Biosciences and Laboratories of Diagnostic

Veterinary Medicine. College of Veterinary Medicine, University of Illinois. Urbana-Champaign, Illinois.

- Additional activities and responsibilities
 - Interim Director of Diagnostic Toxicology (1989-1990)
 - Graduate Coordinator of Diagnostic Toxicology (1990-1994)
 - Graduate Coordinator of Toxicologic Field Investigations
 - Coordinator of National Animal Poison Control Center Training Program (1992-1994)

1987-1988 Teaching Associate in Toxicology and Diagnostic Toxicology: Department of Veterinary Biosciences and Laboratories of Diagnostic Veterinary Medicine. College of Veterinary Medicine, University of Illinois. Urbana-Champaign, Illinois.

1979-1987 Insurance investigator and insurance adjuster.

EDUCATION

1996 Ph.D. in Toxicology
University Of Illinois

Hall, JO: Mechanisms of Ionophore Toxicoses: Laidlomycin Propionate Toxicosis in the Horse, Laidlomycin Propionate, Laidlomycin, and Monensin in Muscle Cell Cultures. Ph.D. Dissertation, University of Illinois.

1987 Doctor of Veterinary Medicine
Oklahoma State University

1984 Bachelor of Science in Agriculture Economics
Oklahoma State University

ADDITIONAL TRAINING

1988-1994 Residency in Clinical, Diagnostic, and Experimental Toxicology
Department of Veterinary Biosciences/Toxicology
University of Illinois College of Veterinary Medicine
Urbana, Illinois

1987-1988 Internship in Clinical, Diagnostic, and Experimental Toxicology
Department of Veterinary Biosciences/Toxicology
University of Illinois College of Veterinary Medicine

1979-1981 Specialized training in insurance investigation
General Adjustment Bureau, Oklahoma City, Oklahoma

LICENSES

Oklahoma State Veterinary License (1987 to present)

Oklahoma Insurance Adjusters License (1983 to 1996)

BOARD CERTIFICATIONS

American Board of Veterinary Toxicology - 1993

PROFESSIONAL AND SCIENTIFIC AFFILIATIONS

American Veterinary Medical Association - 1987 to present

Phi Zeta (Veterinary Medicine Scholastic Honorary) - 1991 to 1997

American Association of Veterinary Laboratory Diagnosticians - 1992 to 1995 and 1997 to present

- Vice-Chair of the Veterinary Analytical Toxicology and Mycotoxin Committee – 2008
- Chair of the Veterinary Analytical Toxicology and Mycotoxin Committee – 2009

American Board of Veterinary Toxicology - 1993 to present

- Member of the ABVT Board Certification/Examination Committee (2000-2003)
- Member of the ABVT Food Safety Committee (2000-present)

Cache Valley Practitioners Association - 1996 to present

- Representative to the Utah Veterinary Medical Association 2000-2002
- Continuing Education coordinator 1999
- President 1998
- Vice-President 1997

Utah Veterinary Medical Association 2000 to present

- Northern Region Representative 2000-2002

EXPERIENCE

Teaching:

-Courses Taught or Assisted, Utah State University:

1. Toxicology Seminar Series (ADVS 6810). Graduate toxicology seminar series designed to increase the breadth of knowledge for the toxicology graduate students. Coordinate the seminar presentations every-other year 1997 to present.
2. Introductory Pharmacology and Pharmacokinetics (ADVS 5350/6350). Studies into the mechanisms and principles of molecular kinetics in living systems. 1997 to present.
3. Poisonous Range Plants (ADVS 5860). Guest Lecturer on diagnoses and selenium poisonings, 8 years.
4. Companion Animal Health (ADVS 122). Guest Lecturer on toxicology, 1 year.
5. Horse Management (ADVS 5190). Guest Lecturer on plant and feed related poisonings in horses, 6 years.
6. Introductory Chemistry (CHEM 1990). Guest Lecturer on forensic chemistry, 3 years.
7. Mineral/Vitamin Metabolism (ADVS 6560-7560). Guest Lecturer on mineral profiling, 1 year.

8. Utah State University Satellite Extension. The Horsemen's Seminar Class. Guest Lecturer on plant poisonings in horses, 1 year.
- Courses Taught or Assisted, University of Illinois College of Veterinary Medicine.
 1. Veterinary Toxicology (VB-320). An overview of toxicology for junior veterinary students. Assisted teaching 6 years.
 2. Advanced Clinical Veterinary Toxicology (VB-329). Advanced studies of the mechanisms, differentials, treatments, and syndromes of toxicants. Primary instructor for 5 years, then split the class into #3 and #4 due to enrollment.
 3. Advanced Clinical Veterinary Toxicology in Small Animal Species (VB-329). Advanced studies of the mechanisms, differentials, treatments, and syndromes of toxicants. Primary instructor for 2 years.
 4. Advanced Clinical Veterinary Toxicology in Large Animal Species (VB-330). Advanced studies of the mechanisms, differentials, treatments, and syndromes of toxicants encountered in large animal practice. Primary instructor for 2 years.
 5. Animal Necropsy Procedures (VP-355). Toxicology review for the senior veterinary students and necropsy assistance. 7 years.
 - Graduate Students Trained
 - Amanda Wilhelm (MS in Toxicology 2010)
 - Pamala Hole (MS in Toxicology 2005)
 - Asheesh Tiwary (MS in Toxicology 2004)
 - Melisa Bunderson (MS in Toxicology 2000)
 - Lynn Burgess (Ph.D. in Toxicology 1999)

Service/Extension:

- 1996 to present: Head of Diagnostic Veterinary Toxicology. Utah State University, Utah Veterinary Diagnostic Laboratory
- 1987 to 1995: Poison information specialist and/or associate director of toxicology services. National Animal Poison Control Center, University of Illinois
- 1987 to 1995: Toxicology Diagnostician. Veterinary Diagnostic Laboratories, University of Illinois
- 1989 to 1990: Interim Co-coordinator of the Veterinary Diagnostic Toxicology Services. University of Illinois, Veterinary Diagnostic Laboratories

Research: Twenty-three years of research experience:

- Toxicity and pharmacokinetics of investigational antiviral drugs, as well as physiologic investigation of viral diseases.
- Natural anti-parasitics and diet selectivity in sheep.
- Dietary selectivity of induced phosphorous deficient sheep.

Toxicokinetic investigation of sagebrush terpenes in sheep.

Comparative acute toxicity and kinetics of organic, inorganic, and plant derived selenium in livestock.

Acute and sub-acute toxicity/bioavailability of minerals in processed organic fertilizer.

Effects of antioxidant associated induction of metabolic pathways on the toxicity of aflatoxin in turkeys.

Effects of increased manganese on the bacterial proliferation of *in vitro* rumen cultures.

Effects of organic and inorganic manganese on bioavailability in dairy cattle.

Effects of increased water iron on the production and systemic mineral balance in calves.

Metabolic effects of increased iron concentrations on rumen microbe metabolism and growth.

The toxicity and toxic effects of *Adonis* sp. in hamsters.

The effects of lasalocid on production in vitamin/mineral supplemented elk

The acute/subacute oral toxicity of laidlomycin propionate in the adult horse.

The comparative toxicity of monensin, laidlomycin, and laidlomycin propionate to cultured rat skeletal muscle cells.

The acute oral toxicity of Easter lily (*Lilium longiflorum*) in the Cat.

Effects of fumonisin and/or moniliformin on the serum concentration of vitamin A in chickens.

Black walnut (*Juglans nigra*) toxicosis as a model for equine laminitis.

PUBLICATIONS

Rood KA, Baldwin T, Kelly J and **Hall JO**. Selenium and Vitamin A Deficiency Associated with Reversible Orthokeratosis in a Black Angus Calf. (Abstract). Proceedings 2011 AAVLD Annual Conference. p. 664.

Davis TZ, Stegelmeier BL, Green BT, Welch KD, Panter KE, and **Hall JO**. Acute toxicity of selenium compounds commonly found in selenium accumulator plants. In: Poisoning by Plants, Mycotoxins, and Related Toxins. By Riet-Correa F, Pfister J, Schils AL, and Wierenga T. (Eds.). CAB International, Cambridge, MA. 91:525-531. 2011.

Wang H, Siddharthan V, **Hall JO**, and Morrey JD. Autonomic Nervous Dysfunction in Hamsters infected with West Nile Virus. PLoS ONE 6(5): e19575. Doi:10.1371/journal.pone.0019575. 2011.

Mendenhall M, Russell A, Smee DF, **Hall JO**, Skirpstunas R, Furuta Y, and Gowen BB. (2011) Effective Oral Favipiravir (T-705) Therapy Initiated after the Onset of Clinical Disease in a Model of Arenavirus Hemorrhagic Fever. PLoS Negl Trop Dis 5(10): e1342. doi:10.1371/journal.pntd.0001342. 2011.

Hall JO and Davis TZ. Selenium. In: Reproductive and Developmental Toxicology. By R Gupta (ed). Elsevier Publishing. 2011. pp. 462-467

Hall JO: Strychnine Poisoning. Mini Disease in Toxicology Topics. In: The 5 Minute Veterinary Consult Canine and Feline, 5th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2011. p. 1202

Hall JO: Iron Poisoning. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult Canine and Feline, 5th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2011. p. 715

Hall JO: Lily Poisoning. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult Canine and Feline, 5th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2011. p. 751

Hall JO: Strychnine Rodenticides. In: Blackwell's 5 Minute Veterinary Consult Clinical Companion: Small Animal Toxicology. ed. By Osweiler G, Hovda L, Brutlag A, and Lee J. Wiley & Sons, Inc. 2011. pp. 791-797.

Hall JO: Iron. Blackwell's 5 Minute Veterinary Consult Clinical Companion: Small Animal Toxicology. ed. By Osweiler G, Hovda L, Brutlag A, and Lee J. Wiley & Sons, Inc. 2011. pp. 647-656.

Dodge GR, Regatte RR, Noyszewski EA, **Hall JO**, Sharma AV, Callaway DA, and Reddy R. The Fate of Oral Glucosamine Traced by ¹³C Labeling in the Dog. Cartilage 2(3) 279-285. 2011.

Hall JO. Diagnosing Common Vitamin and Mineral Deficiencies in Cattle. Proceedings of the Oklahoma Veterinary Medical Association 96th Annual Convention. 2011.

Hall JO. Effects of Sulfur and Sulfate on Ruminant Health. Proceedings of the Oklahoma Veterinary Medical Association 96th Annual Convention. 2011.

Hall JO. Selenium Toxicosis. In: The Merck Veterinary Manual, 10th Ed. CM Kahn (ed). Merck & Co., Inc Publishing. Whitehouse Station, NJ. pp.2665-2668. 2010.

Hall JO and Zobell DR. Common Vitamin and Mineral Deficiencies in Utah. Utah State University Cooperative Extension Fact Sheet AG/BEEF/2010-02. pp. 1-5. 2010.

Stegelmeier BL, Davis TZ, Green BT, Lee ST, and **Hall, JO**. Experimental Rayless Goldenrod (*Isocoma pluriflora*) Toxicosis in Goats. J. Vet Diagn. Invest. 22(4):570-577, 2010.

Pfister JA, Gardner DR, Cheney CC, Panter KE, and **Hall JO**. The capability of several toxic plants to condition taste aversions in sheep. *Small Ruminant Res.* 90(1):114-119, 2010.

Morrey JD, Siddharthan V, Wang H, **Hall JO**, Motter NE, Skinner RD, and Skirpstunas RT. Neurological suppression of diaphragm electromyographs in hamsters infected with West Nile virus. *J. Neurovir.* 16(4):318-329, 2010.

Villalba JJ, Provenza FD, **Hall JO** and Lisonbee LD. Selection of Tannins by Sheep in Response to Gastrointestinal Nematode Infection. *J. Anim. Sci.* 88:2189-2198, 2010.

Hall JO. Common Vitamin and Mineral Deficiencies in the AZ Strip and So. Utah. Proceedings of the 32nd Annual Arizona Strip Range Livestock Workshop and Tour. 2010.

Morrey JD, Siddharthan V, Wang H, Motter NE, **Hall JO**. Discovery and treatment of respiratory neurologic sequelae in west nile virus infected hamsters (Abstract). *Antiviral Res.* 86(1):A39, 2010.

Dziba LE, Provenza FD, and **Hall JO**. Responses of Lambs to Camphor Highlight Opportunities for Management of Savannas. *Options Méditerranéennes Series A.* 85: 191-196, 2010.

Lisonbee LD, Villalba JJ, Provenza FD, and **Hall JO**. Tannins and Self-medication: Implications for Sustainable Parasite Control in Herbivores. *Behavioural Sci.* 82(2):184-189, 2009.

Wang H, Siddharthan V, **Hall JO**, and Morrey JD. West Nile Virus Preferentially Transports Along Motor Neuron Axons after Sciatic Nerve Injection of Hamsters. *J. Neurovirol.* 16(4):293-299, 2009.

Hall JO. Appropriate Methods of Diagnosing Mineral Deficiencies in Cattle. DAIRY eXNET(<http://www.extension.org/dairy+cattle>). 2009.

Turner JC and **Hall JO**. Brain Acetylcholinesterase Activity of the American Pronghorn Antelope (*Antilocapra americana*) Collected from the U.S. Army Dugway Military Proving Ground, Utah. *Europ. J. Wildlife Res.* 55(5):525-530, 2009.

Siddharthan V, Wang H, Motter NE, **Hall JO**, Skinner RD, Skirpstunas RT and Morrey JD. Persistent West Nile Virus Associated with a Neurologic Sequela in Hamsters Identified by Motor Unit Number Estimation. *J. Virol.* 83(9):4251-4261, 2009.

Morrey JD, Siddharthan V, Wang H, Motter NE, **Hall JO**, Skinner RD, and Skirpstunas RT. Motor Unit Number Estimation as a Therapeutic Marker in Acute and Persistent West Nile Virus Infection in Hamsters (Abstract). *Antiviral Res.* 82(2):A72, 2009.

Stegelmeier BL, Green BT, Panter KP, Welch KD, and **Hall JO**. Identifying Plant Poisoning in Livestock. *Rangelands* 31(1):5-9, 2009.

Vest JL, Conover MR, Perschon C, Luft J, and **Hall JO**. Trace Element Concentrations in Wintering Waterfowl from the Great Salt Lake, Utah. *Arch. Environ. Contam. Toxicol.* 56(2):302-316, 2009.

Hall JO: Sorghum Sp. Toxicosis. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult - Equine, 2nd ed. by Brown & Bertone. Williams and Wilkins. 2009. p. 720-721.

Hall JO: Quercus sp. (Oak) Toxicosis. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult - Equine, 2nd ed. by Brown & Bertone. Williams and Wilkins. 2009. p. 656.

Marr CM and **Hall JO**: Ionophore Toxicosis. Expanded Disease Topic in Toxicology Topics. In: 5 Minute Veterinary Consult - Equine, 2nd ed. by Brown & Bertone. Williams and Wilkins. 2009. p. 430-431.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Butylated Hydroxytoluene Chemoprevention of Aflatoxicosis in Turkeys: Effects on Aflatoxin B1 Bioavailability, Hepatic DNA Adduct Formation, and Biliary Excretion *In Vivo*. *Food and Chem. Toxicol.* 46(12):3727-31, 2008.

Gowen BB, Smee DF, **Hall JO**, Wong M, Jung K, Bailey KW, Stevens JR, YF, and Morrey JD. T-705 Treatment of Late Stage Disease in an Arenaviral Hemorrhagic Fever Model: T-705 Efficacy and Reduced Toxicity Suggests a Viable Alternative to Ribavirin Therapy. *PLoS ONE* 3(11):e3725, 2008.

Coulombe, RA, Guarisco JA, and **Hall JO**. Protecting Poultry from Aflatoxicosis through Chemoprevention. Proceedings disc of the World Poultry Congress. Brisbane, Queensland, Australia. June 29 – July 4, 2008. Pages 1-4.

Heard DJ, Mulcahy DM, Iverson SA, Rizzolo DJ, Greiner EC, **Hall JO**, Ip H and Esler D. A Blood Survey of Elements, Viral Antibodies and Hemoparasites in Wintering Harlequin Ducks (*Histrionicus histrionicus*) and Barrow's Goldeneyes (*Bucephala islandica*). *J. Wildlife Dis.* 44 (2):486-493, 2008.

Morrey JD, Sidharthan V, Wang H, **Hall JO**, Skirpstunas R, Olsen AL, Nordstrom JL, Koenig S, Johnson S, and Diamond MS. West Nile Virus-Induced Acute Flaccid Paralysis is Prevented by Monoclonal Antibody Treatment when Administered after Infection of Spinal Cord Neurons. *J. Neurovirol.* 14(2):152-163, 2008.

Morrey JD, Olsen AL, Siddharthan V, Motter NE, Wang H, Taro BS, Chen D, Ruffner D, and **Hall JO**. Increased Blood-Brain Permeability is not a Primary Determinant for Lethality of West Nile Virus infection in Rodents. *J. Gen. Virol.* 89:467-473, 2008.

Villalba JJ, Provenza FD, and **Hall JO**. Learned Appetites for Calcium, Phosphorous, and Sodium in Sheep. *J. Anim. Sci.* 86:738-747, 2008.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Mechanisms of Butylated Hydroxytoluene Chemoprevention of Aflatoxicosis – Inhibition of Aflatoxin B1 Metabolism. *Toxicol. Appl. Pharm.* 227:339-346, 2008.

Hall JO: Strychnine Poisoning. Mini Disease in Toxicology Topics. In: The 5 Minute Veterinary Consult Canine and Feline, 4th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2007. p. 1310-1311.

Hall JO: Iron Poisoning. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult Canine and Feline, 4th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2007. p. 771.

Hall JO: Lily Poisoning. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult Canine and Feline, 4th ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2007. p. 814.

Welch KD, **Hall JO**, Davis TZ and Aust SD. The Effect of Copper Deficiency on the Formation of Hemosiderin in Sprague-Dawley Rats. *Biometals* 20(6):829-839, 2007.

Morrey JD, Siddharthan V, Wang H, Olsen AL, Skirpstunas R, **Hall JO**, Li H, Koenig S, Johnson S, Nordstrom JL, Marlenee N, Bowen RA and Diamond MS. Treatment of Paralysis Caused by West Nile Virus in Hamsters. *Antiviral Res.* 74 (3):A32, 2007.

Hall JO. Nephrotoxicity of Easter Lily (*Lilium longiflorum*). In: *Poisonous Plants: Global Research and Solutions*. Ed. KE. Panter, TL Wierenga and JA Pfister. CABI. Wallingford, UK. pp. 271-278, 2007.

Tiwary AK, Panter KE, Stegelmeier BL, James LF, and **Hall JO**. Naturally Occuring Acute Selenium Toxicosis in Sheep. In: *Poisonous Plants: Global Research and Solutions*. Ed. KE. Panter, TL Wierenga and JA Pfister. CABI. Wallingford, UK. pp. 50-54, 2007.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Butylated Hydroxytoluene Reduces Aflatoxin B1 Bioavailability and Hepatic Adduct Formation in Turkeys. In: *Poisonous Plants: Global Research and Solutions*. Ed. KE. Panter, TL Wierenga and JA Pfister. CABI. Wallingford, UK. pp. 197-202, 2007.

Stegelmeier BL, **Hall JO**, Lee ST, James LF, Gardner DR, Panter KE, Ralphs MH, and Pfister JA. Pheasant's Eye (*Adonis aestavalis*) Toxicity in Livestock and Rodents. In: *Poisonous Plants: Global Research and Solutions*. Ed. KE. Panter, TL Wierenga and JA Pfister. CABI. Wallingford, UK. pp. 463-467, 2007.

Morrey JD, Siddharthan V, Olsen AL, Wang H, Julander JG, **Hall JO**, Li H, Nordstrom JL, Koenig S, Johnson S, and Diamond MS. Defining Limits of Treatment with Humanized Neutralizing Monoclonal Antibody for West Nile Virus Neurological Infection in a Hamster Model. *Antimicro. Agents Chemother.* 51 (7):2396-2402, 2007.

Hall J, Winger H, Hole P, and Samford R. Investigation of the Bioavailability of Manganese from Organic vs. Inorganic Supplements. *Proceedings Western Section American Society of Animal Science.* 58:358-363, 2007.

Wilhelm A. Stegelmeier BL, Panter KE, and **Hall JO**. Respiratory Elimination of Selenium in Sheep Given the Accumulator Plant *Symphytichum spathulatum* (Western Mountain Aster). *Proceedings Western Section American Society of Animal Science.* 58:229-232, 2007.

Hall JO. Selenium. In: *Veterinary Toxicology*. By R Gupta (ed). Elsevier Publishing. pp.453-460. 2007.

- Hall JO.** Molybdenum. In: Veterinary Toxicology. By R Gupta (ed). Elsevier Publishing. pp.449-452. 2007.
- Hall JO.** Sulfur. In: Veterinary Toxicology. By R Gupta (ed). Elsevier Publishing. pp.465-469. 2007.
- Villalba JJ, Provenza FD, **Hall JO**, and Peterson C. Phosphorous Appetite in Sheep: Dissociating Taste from Postingestive Effects. *J. Anim. Sci.* 84:2213-2223, 2006.
- Hole PS, Young AJ, and **Hall JO**. Correlation Between Water Mineral Content and Production Parameters in Dairy Cattle. Proceedings of the Western Section of the American Society of Animal Science 78th Annual Meeting. 57:318-321, 2006.
- Hole PS, Schelvan MB, and **Hall JO**. Effects of Ferrous Chloride on Suckling Calves and on Microbial Growth and Metabolism Using an In Vitro Rumen Culture System. Proceedings of the Western Section of the American Society of Animal Science 78th Annual Meeting. 57:313-317, 2006.
- Schauer CS, Held J, Daniels JA, Caton JS, Hatfield PG, Stobart R, and **Hall JO**. Lamb Muscle Selenium Concentration Plateaus Following 56 days of Selenium Supplementation. Proceedings of the Western Section of the American Society of Animal Science 78th Annual Meeting. 57:339-342, 2006.
- Hall JO.** Appropriate Methods of Diagnosing Mineral Deficiencies in Cattle. Proceedings of the Tri-State Dairy Nutrition Conference. pp. 43-50, 2006.
- Dziba LE, **Hall JO**, and Provenza FD. Feeding behavior of lambs in relation to kinetics of 1,8-cineole dosed intravenously and into the rumen. *J. Chem. Ecol.* 32:391-408, 2006.
- Hall JO.** Urea and Nitrate Poisoning in Ruminants. Proceedings of the Western States Veterinary Conference. pp. V286 (1-5), 2006.
- Hall JO.** Ionophore Poisoning of Horses and Cattle; Acute vs. Chronic Effects Proceedings of the Western States Veterinary Conference. pp. V285 (1-4), 2006.
- Hall JO.** Blue-Green Algae Poisoning in Large Animals. Proceedings of the Western States Veterinary Conference. pp. V287 (1-3), 2006.
- Hall JO.** Effects of Sulfur and Sulfate in Ruminant Health. Proceedings of the Western States Veterinary Conference. pp. V288 (1-3), 2006.
- Tiway AK, Stegelmeier BL, Panter KE, James LF, and **Hall JO**. Comparative toxicosis of sodium selenite and selenomethionine in lambs. *J. Vet. Diag. Invest.* 18:60-69, 2006.
- Hall JO.** Assessing mineral status of dairy cattle. Proceedings of the Intermountain Nutrition Conference. pp. 33-41, 2006.
- Tiway AK, Panter KE, Stegelmeier BL, James LF, and **Hall JO**. Evaluation of Respiratory Elimination Kinetics of Selenium after Oral Administration in Sheep. *Am J Vet Res.* 66:1-7, 2005.
- Hall JO:** Ionophores. In: Small Animal Toxicology, 2nd edition. By Michael Peterson and Patricia Talcott. W.B. Saunders Company. pp. 768-776, 2005.

Hall JO: Iron. In: *Small Animal Toxicology*, 2nd edition. By Michael Peterson and Patricia Talcott. W.B. Saunders Company. pp. 777-784, 2005.

Hall JO: Lily Poisoning. In: *Small Animal Toxicology*, 2nd edition. By Michael Peterson and Patricia Talcott. W.B. Saunders Company. pp. 806-811, 2005.

Farina LL, Heard DJ, LeBlanc DM, **Hall JO**, Stevens G, Wellehan JFX, and Detrisac CJ. Iron Storage Disease in Captive Egyptian Fruit Bats (*Rousettus aegyptiacus*). *J Zoo and wildlife Med.* 36:212-221, 2005.

Hall JO: Appropriate Methods of Diagnosing Mineral Deficiencies. *Proceed. Mid-South Rum. Nutr. Conf.* pp. 21-26, April 2005.

Coulombe RA, Guarisco JA, Klein PJ, and **Hall JO**. Chemoprevention of Aflatoxicosis in Poultry by Dietary Butylated Hydroxytoluene. *Anim. Feed Sci. and Technol.* 121: 217-225, 2005.

Mackowiak CL, Amacher MC, **Hall JO**, and Herring JR: Uptake of Selenium and Other Elements into Plants and Implications for Grazing Animals in Southeast Idaho. In: *Life Cycle of the Phosphoria Formation - From Deposition to the Post-Mining Environment* by J. R. Hein. Elsevier. pp. 527-555, 2004.

Hall JO: Feed-Associated Toxicants: Ionophores. In: *Clinical Veterinary Toxicology* by Konnie Plumlee. Mosby. pp. 120-127, 2004.

Hall JO: Plants: Liliium Spp.. In: *Clinical Veterinary Toxicology* by Konnie Plumlee. Mosby. pp. 433-435, 2004.

Klein PJ, **Hall JO** and Coulombe RA, Jr. Dietary butylated hydroxytoluene protects against aflatoxicosis in turkeys, in *Poisonous Plants and Related Toxins*. CAB International, London. pp. 478-483, 2003.

Coulombe RA, Klein PJ and **Hall JO** Butylated Hydroxytoluene Chemoprotection. *Tox. and Appl. Pharm.* 189:152, 2003.

Stegelmeier BL, **Hall JO**, Gardner DR, and Panter KE. The Toxicity and Kinetics of Larkspur Alkaloid, Methylylcaconitine, in Mice. *J. Anim. Sci.* 81:1237-1241, 2003

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Bagley CV, Bingham HR, and **Hall JO**. The Association Between Serum Mineral and Vitamin A and E Concentration and Respiratory Disease in Beef Calves Entering Backgrounding Lots. *The Bovine Practitioner* 37:68-73, 2003.

Pfister JA, Gardner, DR, Stegelmeier BL, Knight AP, Waggoner JW jr., and **Hall, JO**. Plains larkspur (*Delphinium geyeri*) grazing by cattle in Wyoming. *J Range Management.* 55:350-359, 2002.

Klein PJ, Van Vleet TR, **Hall JO**, and Coulombe RA Jr. Biochemical Factors Underlying the Age-related Sensitivity of Turkeys to Aflatoxin B₁. *Comp. Biochem. Physiol.* 132: 193-201, 2002

Klein PJ, Van Vleet TR, **Hall JO** and Coulombe RA Jr. Dietary butylated hydroxytoluene protects against aflatoxicosis in turkeys. *Tox and Appl Pharm* 182: 11-19, 2002.

Stegelmeier BL, James LF, **Hall JO**, Mattix MT. Neurologic disease in range goats associated with *Oxytropis sericea* (Locoweed) poisoning and water deprivation. *Vet Hum Toxicol* Oct. 43(5):302-4, 2001.

Hall JO: Toxic Feed Constituents in the Horse. W.B. Saunders Company. *Vet Clin North Am Equine Pract* 17(3): 479-489, 2001.

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Hall JO: Quercus sp. (Oak) Toxicosis. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult - Equine, 1st ed. by Brown & Bertone. Williams and Wilkins. 2001. pp. 900-901

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Burgess LC and **Hall JO**: Conditioned Media from Solid Tumor Cell Lines Treated with Retinoic Acids both Decreased and Increased Proliferation of Capillary Endothelial Cells. *Life Sci.* 69(24):2819-2831, 2001.

Hall JO: Ionophores. In: Small Animal Toxicology by Michael Peterson and Patricia Talcott. W.B. Saunders Company. 2001. pp. 516-522.

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Hall JO: Lily Nephrotoxicosis. In: Consultations in Feline Internal Medicine. 4th edition. W.B. Saunders Company. 2001. pp. 308-310.

Hall JO: Strychnine Poisoning. Mini Disease in Toxicology Topics. In: The 5 Minute Veterinary Consult, 2nd ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2000. p. 1231.

Hall JO: Iron Poisoning. Mini Disease in Toxicology Topics. In: 5 Minute Veterinary Consult, 2nd ed. by L. P. Tilley and F. W. K. Smith. Williams and Wilkins. 2000. p. 873.

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Galey FD, Twardock AR, Goetz TE, Schaeffer DJ, **Hall JO,** and Beasley VR: Gamma Scintigraphic Analysis of the Distribution of Blood in the Equine Foot During Black Walnut (*Juglans nigra*)-induced laminitis. Am J Vet Res 51:688-695, 1990.

SCIENTIFIC PRESENTATIONS

Hall, JO. Effects of Sulfur and Sulfates on Ruminant Health and Potential Vitamin/Mineral Problems in Cattle Coming From The Drought Stricken South.

MWI and Novartis Animal Health Veterinary Continuing Education Symposium. Las Vegas, NV. December 2-3, 2010.

Hall JO. Trace Minerals and Sulfur in Beef Production. University of Kentucky Beef Producer's Conference. Lexington, KY. Oct. 25, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Kentucky and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Shelbyville, KY. Oct. 24, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Virginia. Novartis Animal Health Beef Producers Meeting. Wytheville, VA. Oct. 22, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Virginia and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Christiansburg, VA. Oct. 21, 2011.

Hall JO. Diagnosed Mineral Deficiencies in Florida During 2010-11 from Case Data. Novartis Animal Health Veterinarian continuing Education Meeting. Okeechobee, FL. October 20, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Nevada. Cargill-Nutrina Beef Producers Meeting. Elko, NV. Sept. 27, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their diagnoses in Cattle Herds of the US. Novartis Animal Health National Veterinary Excellence Series Meeting. San Diego, CA. July 14-16, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of New York and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Battenkill, NY. June 30, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Dairy Herds of Connecticut and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Ellington, CT. June 29, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Pennsylvania and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Loganton, PA. June 28, 2011.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of Southern Louisiana. Local Louisiana Cattle Producer's Meeting. Sulphur, LA. June 14, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their diagnoses in Cattle Herds of the US. Novartis Animal Health National Veterinary Excellence Series Meeting. Charleston, SC. May 19-21, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Florida and Liver Biopsy Wet Lab for Veterinarians. Novartis Animal Health Veterinarian continuing Education Meeting. Okeechobee, FL. May 17, 2011.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of Eastern Florida. Florida Cattle Producer's Meeting. Jacksonville, FL. May 6, 2011.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of Central Utah. Novartis Animal Health Producer's Meeting. Spanish Fork, UT. March 30, 2011.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of Western Idaho. Novartis Animal Health Veterinary and Producer Meeting. Bruneau, ID. March 17, 2011.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of Southern Idaho. Novartis Animal Health Veterinary Continuing Education Meeting. Twin Falls, ID. March 16, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of the Kentucky and Liver Biopsy Wet Lab for Veterinarians. University of Kentucky Extension and Veterinarian Educational Meeting. Lexington, KY. March 9, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of the Kentucky/Tennessee. Logan County Extension KY-TN Beef Short Course. Russellville, KY. March 8, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of the Tennessee and a Liver Biopsy Wet Laboratory. Novartis Animal Health Veterinary Continuing Education Meeting. Clarksville, TN. March 8, 2011.

Hall JO. Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of the Tennessee. Montgomery County Extension Cattlemen's Meeting. Clarksville, TN. March 7, 2011.

Hall JO. Effects of Sulfur and Sulfates on Ruminant Health. Cargill-Nutrina Beef Producers Meeting. Vernal, UT. Feb. 17, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their diagnoses in Cattle Herds of the US. Novartis Animal Health National Veterinary Excellence Series Meeting. San Juan, PR. Feb. 10-12, 2011.

Hall JO. Common Vitamin and Mineral Problems and Their diagnoses in Cattle Herds of the Central US. Oklahoma Veterinary Medical Association 96th Annual Convention. Oklahoma City, OK. Jan. 27-29, 2011.

Hall JO. Effects of Sulfur and Sulfate on Ruminant Health. Oklahoma Veterinary Medical Association 96th Annual Convention. Oklahoma City, OK. Jan. 27-29, 2011.

Hall JO. Common Vitamin and Mineral Deficiencies in Cattle of the Intermountain West and their Effects on Cow-Calf Health. BYU-Idaho Beef Conference. Rexburg, ID. Jan. 13, 2011.

Hall JO. Vitamin and Mineral Deficiencies in Cattle of S. E. Idaho and their Effects on Cow-Calf Health. University of Idaho Extension 51st Regional Beef School. Montpelier, ID. Jan. 6, 2011.

Hall JO. Vitamin and Mineral Deficiencies in Cattle of Eastern Idaho and their Effects on Cow-Calf Health. University of Idaho Extension 51st Regional Beef School. Blackfoot, ID. Jan. 5, 2011.

Hall, JO. Effects of Sulfur and Sulfates on Ruminant Health. MCI and Novartis Animal Health Veterinary Continuing Education Symposium. Las Vegas, NV. December 2010.

Baldwin, T and **Hall, JO.** Enteric Calf Mortality; 2004 to 2010, at the Utah Veterinary Diagnostic Laboratory. MCI and Novartis Animal Health Veterinary Continuing Education Symposium. Las Vegas, NV. December 2010.

Hall, JO. Common Vitamin/Mineral Problems and Their Diagnosis in Cattle Herds of S.E. Idaho. Novartis Animal Health Producer's Meeting. Rigby, ID. October 2010.

Hall, JO. Common Vitamin and Mineral Problems and Their Diagnoses in US Beef Herds. Novartis Animal Health Veterinary Excellence Series Continuing Education Meeting. Colorado Springs, CO. July 2010.

Hall, JO. Common Vitamin and Mineral Deficiencies and Their Diagnoses in US Beef Herds. Novartis Animal Health Veterinary Excellence Series Continuing Education Meeting. Boston, MA. June 2010.

Hall, JO. Vitamin and Mineral Abnormalities and Resultant Affects on Animal Health for Utah and US Livestock. Utah Veterinary Medical Association 2010 Canyonlands Veterinary Conference. Moab, UT. June 2010.

Hall, JO. Common Vitamin/Mineral Problems in Cattle of Utah. Novartis Animal Health Producer's Meeting. Richfield, UT. May 2010.

Hall, JO. Common Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Kansas. PVP, Merial, and Novartis Animal Health Producer's Meeting. Big Bend, KS. April 2010.

Hall, JO. Common Vitamin and Mineral Problems and Their Diagnoses in Cattle Herds of Kansas. PVP and Novartis Animal Health Producer's Meeting. Andale, KS. April 2010.

Hall, JO. Common Vitamin/Mineral Problems in Cattle of the Arizona Strip and Southern UT. 32nd Annual Arizona Strip Range Livestock Workshop and Tour. St. George, UT. April 2010.

Hall, JO. Common Vitamin/Mineral Problems in Cattle of the Arizona Strip and Southern UT. 32nd Annual Arizona Strip Range Livestock Workshop and Tour. Kanab, UT. April 2010.

Hall, JO. Vitamin and Mineral Deficiencies and Their Effect on Cow/Calf Health in Southern Colorado. Novartis Animal Health Producer's Meeting. Monte Vista, CO. February 2010.

Hall, JO. Vitamin and Mineral Deficiencies and Their Effect on Cow/Calf Health in Southern Colorado. Novartis Animal Health Producer's Meeting. Springfield, CO. February 2010.

Hall, JO. Vitamin and Mineral Deficiencies and Their Effect on Cow/Calf Health in Southern Colorado. Novartis Animal Health Producer's Meeting. Sanford, CO. February 2010.

Hall, JO. Common Vitamin and Mineral Problems and Their Diagnoses in US Beef Herds. Novartis Animal Health Veterinary Excellence Series. Las Vegas, NV. February 2010.

Hall, JO. Common Vitamin/Mineral Problems in Cattle of Northern Utah. Novartis Animal Health Producer's Meeting. Randolph, UT. February 2010.

Hall, JO. Common Vitamin/Mineral Problems in Cattle of SE. Idaho. Novartis Animal Health Producer's Meeting. Blackfoot, ID. January 2010.

Hall, JO. Common Vitamin and Mineral Problems in Utah Cattle. Morgan County Extension Beef Producers Meeting. Morgan, UT. January 2010.

Hall, JO. Commonly encountered Vitamin and Mineral Issues of Cattle in Idaho. Idaho Cattlemen's Association Annual Meeting. Sun Valley, ID. November 2009.

Morrey JD, Siddharthan V, Wand H, Motter NE, **Hall JO**, Skinner RD, and Sejvar JJ. Neurobiology of WNV-induced Neurological Sequelae in Hamsters. Society of Neuroscience Annual Meeting. Chicago, IL. October 2009.

Hall, JO. Commonly encountered Vitamin and Mineral Issues in the Central United States and Their Effects on Affect Animal Health. Continuing Educations Meeting, Kansas State University. Manhattan, KS. October 2009.

Hall, JO. Vitamin and Mineral Problems and their Association with Calf Diseases. Novartis Animal Health Producers Meeting. Rexburg, ID. August 2009.

Hall, JO. Common Vitamin and Mineral Problems in US Beef Herds. Novartis Animal Health Veterinary Excellence Series. San Francisco, CA. July 2009.

Hall, JO. Vitamin and Mineral Issues for Livestock in Southern Idaho. Novartis Animal Health Veterinary Practitioners CE Meeting. Twin Falls, ID. June 2009.

Davis TZ, Stegelmeier BL, Welch KD, Greem BE, Panter KE, Cook D, and **Hall, JO**. Selenate and Methylselenocysteine Toxicity in Sheep. 8th International Symposium on Poisonous Plants. Joao, Brazil. May 2009.

Hall, JO. Commonly Encountered Mineral Issues in Utah. USU Extension Veterinary CE meeting. Logan, UT. Feb. 2009.

Hall, JO. Utilization of Tru-Cut Liver Biopsies for Evaluating Mineral Status in Cattle. USU Extension Veterinary CE meeting. Logan, UT. Feb. 2009

Hall, JO. Acute Selenium Toxicosis, The Chemical Form Causes Major Differences. CIB Seminar Series. Logan, UT. January 2009.

Hall, JO. Animal Nutrition and Calf Diseases. Novartis Animal Health Producers Meeting. Vernal, UT. May 2008.

Morrey JD, Siddharthan V, Wang H, Motter NE, **Hall JO**, and Skinner RD. Therapies and Mechanisms of West Nile Virus Encephalitis and Neurologic Sequelae. 21st International Conference on Antiviral Research. Montreal, Canada. April 2008 (Abstract) Antiviral Res. 78:A20, 2008.

Morrey JD, Siddharthan V, Wang H, Motter NE, **Hall JO**, Skinner RD, and Sejvar JJ. Electrical nerve conduction deficits in acute West Nile virus encephalitis and in subsequent neurological sequelae. National Regional Centers of Excellence Meeting. Chicago, IL. April 2008.

Morrey JD, Siddharthan V, Wang H, Skirpstunas R, **Hall JO**, Koenig S, Johnson S, Nordstrom JL, Samuel MA, and Diamond MS. Treatment of Acute Flaccid Paralysis Caused by West Nile Virus in Hamsters with a Humanized Neutralizing Monoclonal Antibody. 8th International Symposium on Neurovirology. San Diego, CA. October 2007.

Zobell DR, **Hall JO**, Weidmeier RD, and Chapman CK. Utilization of TRC Nutritional Laboratories Trace Mineral Compost for Growing and Finishing Beef Cattle. American Society of Animal Science National Annual Meeting. San Antonio, TX, July 2007. J. Anim. Sci. 85 (Suppl. 1):356.

Morrey JD, Siddharthan V, Wang H, Skirpstunas R, **Hall JO**, Li H, Koenig S, Johnson S, Nordstrom JL, Bowen RA, and Diamond MS. Treatment of Paralysis and Mortality Caused by West Nile Virus in Rodents. NIAID, National Institute of Health-West Nile Virus Meeting. Rockville MD. June 2007.

Hall JO. Appropriate Methods of Diagnosing Mineral Deficiencies in Livestock. Albion Advanced Nutrition National Meeting. Homestead, UT. February 2007.

Hall JO. Effects of Mineral Deficiencies in Ruminant Health and Productivity. Cargill-Nutrina, Producers Meeting. Kamas, UT. February 2007.

Hall JO. Sulfur and Sulfate: Adverse Effects on Ruminant Mineral Balance and Health. Cargill-Nutrina, Producers Meeting. Malad, ID. October 2006.

Siegal-Willott J, Harr K, **Hall J**, Bonde RK, Wong A, Reid J, Powell J, and Heard D. Blood Element Concentrations in Two Manatee Subspecies (*Trichechus Manatus latirostris* and *T. M. manatus*). 37th Annual International Association of Aquatic Animal Medicine Conference. Nassau, Bahamas. May 2006.

Hall JO. Appropriate Methods of Diagnosing Mineral Deficiencies in Cattle. Tri-State Dairy Nutrition Conference. Ft. Wayne, IN. April 2006.

Hall JO. Urea and Nitrate Poisoning in Ruminants. Western States Veterinary Conference. Las Vegas, NV. February 2006.

Hall JO. Ionophore Poisoning of Horses and Cattle; Acute vs. Chronic Effects. Western States Veterinary Conference. Las Vegas, NV. February 2006.

Hall JO. Blue-Green Algae Poisoning in Large Animals. Western States Veterinary Conference. Las Vegas, NV. February 2006.

Hall JO. Effects of Sulfur and Sulfate in Ruminant Health. Western States Veterinary Conference. Las Vegas, NV. February 2006.

Hall JO. Dealing With Mineral Supplementation in Cattle. Cache Cattlemen's Association Meeting. Wellsville, UT. February 2006.

Hall JO. How Does Mineral Imbalance Change Cattle Health. Western Ag Credit - The Cattle Call. Telecommunications Meeting. Intermountain West. February 2006.

Schauer CS, Held J, Daniels JA, Caton JS, Hatfield PG, Stobart R, and **Hall JO**. Lamb Muscle Selenium Concentration Plateaus Following 56 days of Selenium Supplementation. 47th Annual Sheep and Beef Day Program Hettinger Research Extension Center North Dakota State University. Fargo, ND. February 2006

Hall JO. Assessing Mineral Status of Dairy Cattle. Intermountain Nutrition Conference. Salt Lake City, UT. January 2006.

Hall JO. Diagnosis of Mineral Deficiencies and Nitrate Poisoning in Livestock. Utah State University Extension Ag Agent Professional Development Meeting. Logan, UT. January 2006.

Hall JO. Effects of Mineral Deficiencies in Cows on Neonate Health and Productivity. Box Elder County Extension Meeting. Park Valley, UT. December 2005.

Schauer CS, Held J, Daniel JA, Caton JS, Hatfield PG, Stobart R, Anderson LP, and **Hall JO**. The Influence of Length of Supra-Selenium Supplementation on Selenium Status, Feedlot Performance, and Carcass Characteristics of Finishing Lambs. American Society of Animal Science Western Section Meeting. June 2005. J. Anim. Sci. Suppl. 2 83:109 (abstract).

Hall JO. Nephrotoxicity of Easter Lily (*Lilium longiflorum*). In: 7th International Symposium on Poisonous Plants. Logan, UT. June 2005.

Tiway AK, Panter KE, Stegelmeier BL, James LF, and **Hall JO**. Acute Selenium Toxicosis in Sheep. In: 7th International Symposium on Poisonous Plants. Logan, UT. June 2005.

Dziba LE, **Hall JO**, Provenza FD, and Villalba JJ. Kinetics of Sagebrush Monoterpenes Influence Feeding Behavior in Sheep. In: 7th International Symposium on Poisonous Plants. Logan, UT. June 2005.

Hall JO. Appropriate Methods of Diagnosing Mineral Deficiencies. Mid-South Ruminant Nutrition Conference. Dallas, TX. April 2005.

Hall JO. Effects of Copper Imbalance in Cows on the Neonate. Basin Veterinary Clinic, Producers Meeting. Vernal, UT. January 2005.

Hall JO. Critical Timing of Mineral Supplementation in Beef Cattle for the Best Effects on Calf Health. Cargill-Nutrina, Producers Meeting. Malad, ID. October 2004.

Hall JO. Mineral Contaminants and the Eco-System, as it Relates to the Midnite Mine Superfund Site. Spokane Tribal Outreach/Training Meeting. Wellpinit, WA. August 2004.

Hall JO. Tribal Exposure to Mineral Contaminants, as it Relates to the Midnite Mine Superfund Site. Spokane Tribal Outreach/Training Meeting. Wellpinit, WA. August 2004.

Hall JO. Effects of Appropriately Managed Pre-natal and Post-natal Mineral Balance in Beef Cattle of the Intermountain West. Basin Veterinary Clinic, Producers Meeting. Vernal, UT. January 2004.

Hall JO. Managing Mineral Balance in Beef Cattle of the Intermountain West. Nutrina Feed, Producers Meeting. Delta, UT. December 2003.

Hall JO. Types on Mineral Imbalances and Their Effects on Cattle in the Intermountain West. Nutrina Feed, Producers Meeting. Randolph, UT. November 2003.

Hall JO. Mercury Contamination and the Ecosystem. Lake County Pomo Tribal Environmental Justice Forum. Nice, CA. October 2003.

Hall JO. Tribal Exposure Pathways of Mercury Contaminants in the Environment. Lake County Pomo Tribal Environmental Justice Forum. Nice, CA. October 2003.

Hall JO. Managing Mineral Balance in Beef Cattle Grazing on Drought Forages. Nutrina Feed, Producers Meeting. Snowville, UT. September 2003.

Hall JO. Managing Mineral Balance in Beef Cattle Grazing on Drought Forages. Nutrina Feed, Producers Meeting. Grouse Creek, UT. September 2003.

Hall JO. Drought Associated and other Common Mineral Problems in Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Montpillier, ID. April 2003.

Hall JO. Common Mineral Problems in Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Grantsville, UT. March 2003.

Hall JO. Staying on Top of Mineral Problems for Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Vernal, UT. March 2003.

Hall JO. Mineral Balance and Problems in Dairy Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Logan, UT. February 2003.

Hall JO. Common Mineral Problems in Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Malad, ID. January 2003.

Hall JO. Common Mineral Problems in Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Tremonton, UT. January 2003.

Hall JO. Common Mineral Problems in Beef Herds of the Inter-Mountain West. Nutrina Feed, Producers Meeting. Logan, UT. October 2002.

Hall JO. Appropriate Animal Sampling for Mineral Deficiencies and Toxicoses. Utah State University Veterinary Satellite Continuing Education meeting. Logan, UT. March 2002.

Coulombe RA, Jr., Klein PJ, Patrick J, and **Hall JO.** Butylated Hydroxytoluene Protects Against Aflatoxicosis in Poultry. 6th International Symposium of Poisonous Plants, Glasgow, Scotland. August 2001.

Hall JO. Utilization of Diagnostic Cases in Monitoring Environmental Contamination. Environmental Health Department Seminar Series. University of Montana. Missoula, MT. March 2001.

Hall JO: Applied Terrestrial Ecotoxicology. Envirovet Summer Institute 2000: International Intensive Training Course on Environmental Health. Yulee Fl. June 2000.

Hall JO: Nutritional Management in Elk Ranching: Effects of Lasalocid and Managing Dietary Mineral Supplements. Utah Elk Breeders Annual Meeting. Mesquite, NV. January 2000.

Hall JO: Poisonous Plants in Equine Management. The Horsemen's Seminar Series. Utah State University Satellite Extension Presentation. November 1999.

Hall JO: Environmental Contamination, Diagnostic Case Evaluations. Utah Environmental Health Association Fall Education Conference. Wellsville, UT. September 1999.

Hall JO: Lasalocid Effects on Elk Growth and Maturation. Utah Elk Breeders Quarterly Meeting. Salt Lake City, UT. August 1999

Hall JO: Evaluation, Management, and Diagnosis of Pesticide Exposed Animals. Continuing Education Meeting of the Cache Valley Veterinary Practitioners Association, Logan, UT. April 1998.

Hall JO: Inaccuracies of the MTT, Formazan Dye, Cytotoxicity and Cell Density Assays. Biology Department Seminar Series, Utah State University, Logan, UT. April 1998.

Hall JO: Insurance Investigation of Livestock Losses. Illinois Association of Mutual Insurance Companies Regional Seminars. Mt. Vernon, IL. March 1998.

Hall JO: Insurance Investigation of Livestock Losses. Illinois Association of Mutual Insurance Companies Regional Seminars. Decatur, IL. March 1998.

Hall JO: Insurance Investigation of Livestock Losses. Illinois Association of Mutual Insurance Companies Regional Seminars. Rockford, IL. March 1998.

Hall JO: Toxicity and Toxicology of Iron. Toxicology Seminar Series, Utah State University, Logan, UT. January 1998

Hall JO: Toxicology of Ionophore Antibiotics. 1997 American Veterinary Medical Association Annual Convention. Reno, Nevada. July 1997.

Hall JO: Easter Lily (*Lilium longiflorum*) Toxicosis in the Cat and Laidlomycin Propionate Toxicosis in the horse. Continuing Education Meeting of the Cache Valley Veterinary Practitioners Association, Logan, UT. April 1997.

Hall JO: Dye Precipitation and Cytotoxicity: Correctable Causes of Variability in Cell Viability Measurement with the Vital Dye, Neutral Red. ADVS Departmental Seminar Series, Utah State University, Logan, UT. January 1997.

Hall JO: Neutral Red Cytotoxicity Assay: Complications and Applications. Toxicology Seminar Series, Utah State University, Logan, UT. January 1997.

Hall JO: Ph.D. Dissertation seminar. Mechanisms of Ionophore Toxicoses: Laidlomycin Propionate Toxicosis in the Horse, and Laidlomycin Propionate, Laidlomycin, and Monensin in Muscle Cell Cultures. University of Illinois, Urbana, IL. October 1996.

Hall JO and Meier WE: A Case of Easter Lily (*Lilium longiflorum*) Toxicosis in a Cat. University of Illinois Clinicalpathologic Seminar Series. Urbana, IL. April 1994.

Hall JO: Nephrotoxicity of Easter Lily (*Lilium longiflorum*) when Ingested by the Cat. American College of Veterinary Internal Medicine Annual Meeting. San Diego, CA. June 1992.

Hall JO: Investigation of Livestock Deaths. Illinois Mutual Insurance Companies Annual Meeting. Springfield, IL. May 1991.

Hall JO: Evaluation of Livestock Losses. Granell Insurance Company Annual Training Meeting. Granell, Iowa. November 1990.

Hall JO: Current Equine Toxicoses. University of Illinois Fall Veterinary Continuing Education Conference. Urbana, IL. October 1990.

Hall JO: Elevated Metal Content in Water as a Cause of Chronic Illness, Poor Reproduction, and Poor Milk Production. American Academy of Veterinary Laboratory Diagnosticians Annual Meeting. Denver, CO. October 1990.

Hall JO: Tremorogenic Mycotoxins: A Clinical Case and Toxicologic Review. Veterinary Biosciences Seminar Series. University of Illinois. Urbana, IL. March 1988.

Thompson LJ and **Hall JO:** Drought Effects of Plants and Mycotoxins. County Extension Meeting. Charleston, IL. October 1988.

SCIENTIFIC POSTER PRESENTATIONS

Gowen BB, Nunberg JH, Mendenhall M, Messina EL, Holbrook MR, Freiberg AN, Juelich T, Russell A, Smee DF, **Hall JO** and Furuta Y. T-705 (favipiravir) activity against Junín and other New World arenaviruses. National RCE Meeting. Las Vegas, NV. 2010.

Gowen BB, Nunberg JH, Mendenhall M, Messina EL, Juelich T, Freiberg AN, Holbrook MR, Russell A, Smee DF, **Hall JO** and Furuta Y. T-705 pyrazine derivative treatment of highly pathogenic arenaviral infections. Annual Rocky Mountain Regional Center of Excellence (RMRCE) Meeting. Estes Park, CO. 2010.

Gowen BB, Nunberg JH, Mendenhall M, Messina EL, Juelich T, Holbrook MR, Russell A, Smee DF, **Hall JO** and Furuta Y. T-705 pyrazine derivative treatment of highly pathogenic arenaviral infections. Annual Rocky Mountain Regional Center of Excellence (RMRCE) Meeting. Logan, UT. 2009.

Savoy L, Flint P, Schamber J, Zwiefelhofer D, Evers D, Hoskins B, Brant H, Perkins C, Taylor R, Trust K, and **Hall J**. Mercury Concentrations in Blood of Molting and Wintering Harlequin Ducks from Alaska. 3rd North American Sea Duck Conference. Quebec City, Canada. November 2008.

Gowen BB, Nunberg J, Holbrook MR, Smee DF, **Hall JO**, Furuta Y and Morrey JD. T-705 treatment of highly pathogenic arenavirus infections. Annual Rocky Mountain Regional Center of Excellence (RMRCE) Meeting. Bozeman, MT. 2008.

Morrey JD, Siddharthan V, Wang H, Motter NE, **Hall JO**, Skinner RD, and Sejvar JJ. Persistent Neuropathology in Hamsters Infected with West Nile Virus as a Model for Neurologic Sequelae. Annual Meeting for the International Society of Neuroscience. Washington DC. November 2008.

Coulombe, RA, Guarisco JA, and **Hall JO**. Protecting Poultry from Aflatoxicosis through Chemoprevention. Proceedings disc of the World Poultry Congress. Brisbane, Queensland, Australia. June 29 – July 4, 2008.

Hall J, Winger H, Hole P, and Samford R. Investigation of the Bioavailability of Manganese from Organic vs. Inorganic Supplements. Western Section American Society of Animal Science. Moscow, ID. June 2007.

Wilhelm A, Stegelmeier BL, Panter KE, and **Hall JO**. Respiratory Elimination of Selenium in Sheep Given the Accumulator Plant *Symphytichum spathulatum* (Western Mountain Aster). Western Section American Society of Animal Science. Moscow, ID. June 2007.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Butylated Hydroxytoluene Chemoprevention of Aflatoxicosis in Turkeys is Dose-related. Society of Toxicology National Annual Meeting. San Diego, CA. March 2006.

Hole PS, Young AJ, and **Hall JO**. Correlation Between Water Mineral Content and Production Parameters in Dairy Cattle. Western Section of the American Society of Animal Science. Logan, UT. June 2006.

Hole PS, Schelvan MB, and **Hall JO**. Effects of Ferrous Chloride on Suckling Calves and on Microbial Growth and Metabolism Using an In Vitro Rumen Culture System. Western Section of the American Society of Animal Science. Logan, UT. June 2006.

Schauer CS, Held J, Daniels JA, Caton JS, Hatfield PG, Stobart R, and **Hall JO**. Lamb Muscle Selenium Concentration Plateaus Following 56 days of Selenium Supplementation. Western Section of the American Society of Animal Science. Logan, UT. June 2005.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Butylated Hydroxytoluene Reduces Aflatoxin B1 Bioavailability and Hepatic Adduct Formation in Turkeys. In: 7th International Symposium on Poisonous Plants. Logan, UT. June 2005.

Stegelmeier BL, **Hall JO**, Lee ST, James LF, Gardner DR, Panter KE, Ralphs MH, and Pfister JA. Pheasant's Eye (*Adonis aestavalis*) Toxicity in Livestock and Rodents. In: 7th International Symposium on Poisonous Plants. Logan, UT. June 2005.

Guarisco JA, **Hall JO**, and Coulombe RA Jr. Inhibition of AFB1 Activation and AFB1-DNA Adducts by Dietary Butylated Hydroxytoluene in Turkeys. Society of Toxicology National Annual Meeting. New Orleans, LA. March 2005.

Heard D, Terrell S, Wellehan J, Scott K, **Hall J**, and Hill R. Abnormal Tooth Loss in a Captive Collection of Crocodylians. Joint American Association of Zoo Veterinarians, American Association of Wildlife Veterinarians, and Wildlife Disease Association Conference. San Diego, CA. September 2004.

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