

**Departmental Annual Report
Pathobiological Sciences (PBS)
January 1, 2015 - December 31, 2015**

Faculty Roster

Boyd Professor

Klei, Thomas R

Full Professor

Baines, Joel
Baker, David G
Cardin, Rhonda
Chowdhury, Shafiqul I.
Del Piero, Fabio
Elzer, Philip H
Gaunt, Stephen D
Hawke, John P
Jeyaseelan, Samithamby
Kousoulas, Konstantin G
Macaluso, Kevin R
Malone, John B
Miller, James E
Mores, Christopher N
Paulsen, Daniel B
Thune, Ronald L

Associate Professor

Bauer, Rudy W
Evans, Dawn
Guerrero-Plata, Maria Antonieta
Langohr, Ingeborg Maria
Liang, Fang-Ting
Martinez, Juan J
Rhett Stout
Wakamatsu-Utsuki, Nobuko

Assistant Professor

Behnke, Michael Sean
Christofferson, Rebecca C

Grasperge, Britton John
Roy, Alma F
Wilson, Leslie D

Associate Professor-Research

Vladimir Chouljenko N.

Assistant Professor-Research

Shanshan Cai
Lidiya Dubytska
Tibor Farkas
Muzammel Haque
Smriti Mehra
Tirumalai Rangasamy
Sean Riley
Isaura Simoes
Ramesh Subramanian
Kui Yang

Instructor

Dietrich, Marilyn A
Kearney, Michael T.

Faculty Productivity Table

Refereed Publications	58
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Scientific Abstracts

Oral	55
Poster	42
Published Abstract	18

Textbooks	0
Textbook Chapters	2

Other Non-refereed Articles

Proceedings Articles	10
Lay Articles	0

Faculty Achievements

Learning

Graduate Program Completions

Javier Jesus Garza

Completion Date: May 2015

Major Professor: Miller, James E

Comparison of Immune Responses during Gastrointestinal Helminth Expulsion between Resistant and Susceptible Breeds of Sheep

Shiliang Anthony Liu

Completion Date: December 2015

Major Professor: Kousoulas, Konstantin G

A Virus-vectored Vaccine to Combat Equine Herpesvirus-1 Infections.

Ahmad AA Saied

Completion Date: May 2015

Major Professor: Kousoulas, Konstantin G

The Role of Herpes Simplex virus Type 1 Glycoprotein K in Neuroinvasion and Immunopathogenesis of Herpes Keratitis.

Rui Wang

Completion Date: May 2015

Major Professor: Hawke, John P

Comparative genomic studies of catfish and zebrafish strains of *Edwardsiella ictaluri*.

Publications

Textbook Chapters

Baker, D.G., Lipman, N.S. (2015). Factors That Can Influence Animal Research. In: Laboratory Animal Medicine. 3rd Edition. Academic Press, pp 1441-1495.

Del Piero, F. (2015). Equine neuropathology. *Equine neurology*. Published Electronically

Beaufriere, H., Wakamatsu, N. (2015). Cardiovascular diseases. In Greenacre, C. B., Morishita, T. Y. (Ed.), *Backyard poultry medicine and surgery - a guide for veterinary practitioners*. Wiley Blackwell.

Non-refereed publications

C.E. Proceedings

- Silva, M., Rech, R., Gava, D., Kuchiishi, S., Schaefer, R., Langohr, I., Zanella, J. (2015). *Porcine respiratory disease complex in southern Brazil: pathogens and associated histopathology*. Embrapa Suínos e Aves.
- Acharya, M., Burke, J. M., Miller, J. E., Terrill, T. H., Smyth, E., Coffey, K., Rosenkrans, C. (2015). *Changes in GIN infection measures and heat stress in lambs fed sericea lespedeza (SL) with or without sodium molybdate* (pp. 12-14). USDA SCC-81.
- Kelly, V., Miller, J. E. (2015). *Direct effects of sericea lespedeza (Lespedeza cuneata) condensed tannin extract on Eimeria spp. development and cell infectivity* (pp. 120). American Association of Veterinary Parasitologists.
- Whitley, N. C., Miller, J. E. (2015). *Does diatomaceous earth have a role in worm control?* (pp. CD). What Works With Worms Congress.
- Hamilton, T., Terrill, T. H., Kommuru, D. S., Rivers, A., Mosjidis, J. A., Miller, J. E., Burke, J. M. (2015). *Effect of supplemental sericea lespedeza leaf meal pellets on health and productivity of grazing goats* (pp. 10-11). USDA SCC-81.
- Seibert, L. D., Welborn, M. G., Kelly, V. E., Young, K. R., Garza, J. J., Gentry, G. T., Navarre, C. B., Miller, J. E. (2015). *Evaluation of eprinomectin (LongRange®) for long-term control of gastrointestinal nematode infection in nursing calves during summer grazing*. American Association of Veterinary Parasitologists.
- Miller, J. E., Burke, J. M., Terrill, T. H. (2015). *Potential new dewormer methods* (pp. CD). What Works With Worms Congress.
- Fowler, A., da Cunha, A. F., Joyner, R., Ramos, S., Stout, R. W., Acierno, M. J. (2015). *Direct canine blood pressure measurements made at different anatomical sites*. *Phi Zeta Research Emphasis Day*.
- Joyner, R., Fowler, A., Ramos, S., Stout, R. W., da Cunha, A. F., Acierno, M. J. (2015). *Validation of invasive blood pressure measurement methods in dogs*. *Phi Zeta Research Emphasis Day*.
- Brandao, J., da Cunha, A. F., Pypendop, B., Stout, R. W., Nevarez, J. G., Tully, T. N. (2015). *Cardiovascular tolerance of intravenous lidocaine in broiler chickens*. Paris: International Conference on Avian, Herpetological, and Exotic Mammal Medicine.

Continuing Education Presentations

State and Local

Grasperge, B., "Arthropod-borne Diseases," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 24, 2015).

Grasperge, B., "Clinical Pathology for Veterinary Technicians," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 24, 2015).

Grasperge, B., "Cytology of Companion Animals: Effortless examination of smears," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 23, 2015).

National

Baker, D.G. "A user-friendly approach to cost accounting in animal facilities," 66th Annual Meeting of the National AALAS, Phoenix, Arizona. (November 2).

Other educational contributions

Discovery

Refereed Publications

Andrews, F. M., Camacho-Luna, P., Loftin, P. G., Gaymon, G., Garza, Jr., F., Keowen, M. L., Kearney, M. T. (2015). Effects of a Pelleted Supplement (SmartGut Ultra) on non-glandular gastric ulcer scores and gastric juice pH. *Equine Veterinary Education/Wiley Publications*. www.aaep.org

Andronescu, A. A., Kelly, L., Kearney, M. T., Lopez, M. J. (2015). Associations between early radiographic and computed tomographic measures and canine hip joint osteoarthritis at maturity. *Am J Vet Res*, 76(1), 19-27. www.ncbi.nlm.nih.gov/pubmed/25535657

Aupperlee, M. D., Zhao, Y., Tan, Y. S., Zhu, Y., Langohr, I., Kirk, E. L., Pirone, J. R., Troester, M. A., Schwartz, R. C., Haslam, S. Z. (2015). Puberty-specific promotion of mammary tumorigenesis by a high animal fat diet. *Breast Cancer Research*, 17(1), 138.

Baker, D.G., Kearney, M.T. (2015). The need for econometric research in laboratory animal resource operations. *Lab Animal*, 44(6):217-220.

Banajee, K., Gaunt, P., Khoo, L., Gaunt, S. D. (2015). Pathology in Practice: Henneguyosis in a channel catfish. *Journal of American Veterinary Medical Association*, 246, 1193-1195.

Banajee, K. H., Embers, M. E., Langohr, I., Doyle, L. A., Hasenkampf, N. R., Macaluso, K. R. (2015). *Amblyomma maculatum* feeding augments *Rickettsia*

- parkeri infection in a Rhesus macaque model: A pilot study. *PLoS One*, 10(8), e0135175.
- Banos-Lara, M. d. R., Piao, B., Guerrero-Plata, M. A. (2015). Differential Mucin Expression by Respiratory Syncytial Virus and Human Metapneumovirus Infection in Human Epithelial Cells. *Mediators of Inflammation*, 2015(2015), 1-7.
- Banos-Lara, R., Harvey, L., Mendoza, A., Simms, D., Chouljenko, V., Wakamatsu, N., Kousoulas, K. G., Guerrero-Plata, M. A. (2015). Impact and Regulation of Lambda Interferon Responses in Human Metapneumovirus Infection. *Journal of Virology*, 89(1), 730-742.
- Beaufre, H., Kearney, M. T., Tully, T. N. (2015). Can We Trust the Avian Medical Literature: Survey and Critical Appraisal of the Use of Statistics in Avian Medicine from 2007 to 2011. *Journal of Exotic Pet Medicine*, 24, 415-426.
- Blair, R., Wakamatsu, N., Pucheu-Haston, C. M. (2015). Pemphigus vulgaris in a dog. *Journal of the American Veterinary Medical Association*, 246(4), 419-421.
- Bova, J. F., da Cunha, A. F., Stout, R. W., Bhumiratana, S., Alfi, D. M., Eisig, S. B., Vunjak-Novakavic, G., Lopez, M. J. (2015). Bupivacaine mandibular nerve block affects intraoperative blood pressure and heart rate in a Yucatan Miniature swine condylectomy model: A Pilot Study - epub ahead of print. *J Invest Surg*, 28(1), 32-39. <http://informahealthcare.com/journal/ivs>
- Brandao, J., da Cunha, A. F., Pypendop, B., Stout, R. W., Nevarez, J. G., Tully, T. N. (2015). Cardiovascular Tolerance of Intravenous Lidocaine in Broiler Chickens (*Gallus gallus domesticus*) Anesthetized with Isoflurane. *Veterinary Anaesthesia and Analgesia*, 42(4), 343-453.
- Bretz, C. L., Langohr, I., Lee, S., Kim, J. (2015). Epigenetic instability at imprinting control regions in a Kras(G12D)-induced T-cell neoplasm. *Epigenetics*, 10(12), 1111-20.
- Brown, L. D., Christofferson, R., Banajee, K. H., Del Piero, F., Foil, L. D., Macaluso, K. R. (2015). Co-feeding intra- and interspecific transmission of an emerging insect-borne rickettsial pathogen.. *Molecular ecology*.
- Cai, S., Batra, S., Del Piero, F., Jeyaseelan, S. (2015). NLRP12 modulates host defense through IL-17A-CXCL1 axis.. *Mucosal immunology*.
- Cai, S., Batra, S., Langohr, I., Jeyaseelan, S. (2015). IFN-g induction by neutrophil derived IL-17A homodimer augments pulmonary antibacterial defense. *Mucosal immunology*.

- Cheemarla, N. R., Guerrero-Plata, M. A. (2015). Immune Response to Human Metapneumovirus: What we have learned from the Mouse Model. *Pathogens*, 4(3), 682-696.
- Chen, C., Garber, L., Smoak, M., Fargason, C., Scherr, T., Blackburn, C., Bacchus, S., Lopez, M. J., Pojman, J. A., Del Piero, F., Hayes, D. J. (2015). In vitro and in vivo characterization of pentaerythritol triacrylate-co-trimethylolpropane nanocomposite scaffolds as potential bone augments and grafts. *Tissue engineering. Part A*, 21(1-2), 320-31.
- Christofferson, R., Mores, C. (2015). A role for vector control in dengue vaccine programs. *Vaccine*.
- Duriancik, D. M., Comstock, S. S., Langohr, I., Fenton, J. I. (2015). High levels of fish oil enhance neutrophil development and activation and influence colon mucus barrier function in a genetically susceptible mouse model. *Journal of Nutritional Biochemistry*, 26(11), 1261-72.
- Elsy, R., Selman, W., Nevarez, J. G., Bauer, R. W., King, R., Dupuis, M., Kim, K. (2015). Alligator Mississippiensis (American Alligator). Necrotizing Exfoliation. *Herpetological Review/Society for the study of Amphibians and Reptiles*, 46(2), 246-48.
- Espinheira, F., Brandao, J., Sumner, J. P., Kearney, M. T., Freitas, I., Johnson, J., Cutler, D., Nevarez, J. G. (2015). Survey of ophthalmic anterior segment findings and intraocular pressure in 95 North American box turtles (*Terrapene* spp.). *To appear in Veterinary Ophthalmology*.
- Furtado, M. C., Menezes, R. C., Kiupel, M., Madeira, M. F., Oliveira, R. V., Langohr, I., Figueiredo, F. B. (2015). Comparative study of in situ hybridization, immunohistochemistry and parasitological culture for the diagnosis of canine leishmaniosis. *Parasites & Vectors*, 8, 620.
- Garber, J., Saile, K., Rademacher, N., Wignall, J. R., Wilson, L. D., Ryan, K. A. (2015). Pneumothorax in a dog caused by necrotizing Pneumonia Secondary to Heat Stroke. *Journal of Veterinary Emergency and Critical Care*, 25(6), 759-64.
- Griffin, M., Reichley, S., Greenway, T., Quiniou, S., Ware, C., Gao, D., Gaunt, P., Yanong, R., Pouder, D., Hawke, J., Soto, E. (2015). Comparison of Edwardsiella ictaluri isolates from different hosts and geographic locations.. *Journal of Fish Diseases*, 23. onlinelibrary.wiley.com
- Jambunathan, N., Charles, A. S., Subramanian, R., Saied, A. A., Naderi, M., Rider, P., Brylinski, M., Chouljenko, V. M., Kousoulas, K. G. (2015). Deletion of a Predicted β -Sheet Domain within the Amino Terminus of Herpes Simplex Virus

Glycoprotein K Conserved among Alphaherpesviruses Prevents Virus Entry into Neuronal Axons.. *Journal of virology*, 90(5), 2230-9.

Jones, K. L., Granger, L. A., Kearney, M. T., da Cunha, A. F., Cutler, D. C., Tully, T. N., Shiomitsu, K. (2015). Seeking Improved Chemotherapeutic Dosing: A Ferret-Specific Formula for Body Surface Area. *American Journal of Veterinary Research*, 76(2), 142-148.
<http://avmajournals.avma.org/doi/full/10.2460/ajvr.76.2.142>

Joudrey, S. D., Robinson, D. A., Kearney, M. T., Papich, M. G., da Cunha, A. F. (2015). Plasma concentrations of lidocaine in dogs following lidocaine patch application over an incision compared to intact skin.. *Journal of veterinary pharmacology and therapeutics*, 38(6), 575-80.

Joudrey, S. D., Robinson, D.A., Blair, R., McLaughlin, L.D., Gaschen. L., Perianal neuroendocrine tumor with suspected lymph node metastasis causing colonic compression and subsequent megacolon. *Canadian Veterinary Journal*; 2015, March; 56 (3):240-244

Lee, H., Lee, K. H., Byun, J. W., Yoon, S. S., Park, J. W., Lee, M. H., Choi, E. J., So, B. J., Kim, D. Y., Kiupel, M., Langohr, I., Bae, Y. C. (2015). A case of canine leishmaniasis in Korea. *Journal of the Preventive Veterinary Medicine*, 39, 126-9.

Leissinger, M. K., Del Piero, F., Kawabata, A., Dedeaux, A. M., Gaunt, S. D. (2015). Pathology in Practice: Mediastinal thyroid follicular carcinoma and adrenal carcinoma. *J American Veterinary Medical Association*, 246, 303-305.

Leissinger, M. K., Garber, J. B., Fowlkes, N., Grooters, A. M., Royal, A., Gaunt, S. D. (2015). Mycobacterium fortuitum lipoid pneumonia in a dog. *Vet Pathol*, 52(2), 365-369.

Li, M., Gustchina, A., Cruz, R., Simoes, M., Curto, P., Martinez, J. J., Faro, C., Simoes, I., Wlodawer, A. (2015). Structure of RC1339/APRc from Rickettsia conorii, a retropepsin-like aspartic protease. *Acta Crystallografica D Biological Crystallography*, 71(Part 10), 2109-2118.

Liu, Z., Zhang, F., Koh, G. Y., Dong, X., Hollingsworth, J., Zhang, J., Russo, P. S., Yang, P., Stout, R. W. (2015). CYTOTOXIC AND ANTIANGIOGENIC PACLITAXEL SOLUBILIZED AND PEAMEATION-ENHANCED BY NATURAL PRODUCT NANOPARTICLES. *To appear in Anti-Cancer Drugs*.
<http://journals.lww.com/anti-cancerdrugs/pages/default.aspx>

Londoño-Rentería, B., Cárdenas, J. C., Giovanni, J. E., Cárdenas, L., Villamizar, P., Rolón, J., Chisenhall, D. M., Christofferson, R., Carvajal, D. J., Pérez, O. G., Wesson, D. M., Mores, C. (2015). Aedes aegypti anti-salivary gland antibody concentration and dengue virus exposure history in healthy individuals living in

an endemic area in Colombia.. *Biomedica : revista del Instituto Nacional de Salud*, 35(4), 572-81.

- Londono-Renteria, B., Patel, J., Vaughn, M., Funkhauser, S., Ponnusamy, L., Grippin, C., Jameson, S. B., Apperson, C., Mores, C., Wesson, D. M., Colpitts, T. M., Meshnick, S. R. (2015). Long-Lasting Permethrin-Impregnated Clothing Protects Against Mosquito Bites in Outdoor Workers.. *The American journal of tropical medicine and hygiene*.
- Manore, C. A., Hickmann, K. S., Hyman, J. M., Foppa, I. M., Davis, J. K., Wesson, D. M., Mores, C. (2015). A network-patch methodology for adapting agent-based models for directly transmitted disease to mosquito-borne disease.. *Journal of biological dynamics*, 9(1), 52-72.
- Min, B. R., Wilson, E. A., Solaiman, S., Miller, J. E. (2015). Effects of condensed tannin-rich pine bark diet on experimentally infected with *Haemonchus contortus* in meat goats. *Inter J Vet Health Sci Res*, 3, 49-57.
- Min, B. R., Hernandez, K., Pinchak, W. E., Anderson, R. C., Miller, J. E., Valencia, E. (2015). Effects of plant tannin extracts supplementation on animal performance and gastrointestinal parasites infestation in steers grazing winter wheat. *Open J Anim Sci*, 5, 343-350.
- Ong, C. B., Langohr, I. (2015). Pathology in Practice. Histiocytic sarcoma. *Journal of the American Veterinary Medical Association*, 247(2), 163-5.
- Ong, C. B., Brandenberger, C., Kiupel, M., Kariagina, A., Langohr, I. (2015). Immunohistochemical characterization and morphometric analysis of macrophages in rat mammary tumors. *Veterinary Pathology*, 52(2), 414-8.
- Petchampai, N., Sunyakumthorn, P., Banajee, K. H., Verhoeve, V. I., Kearney, M. T., Macaluso, K. R. (2015). Identification of host proteins involved in rickettsial invasion of tick cells.. *Infection and immunity*, 83(3), 1048-55.
- Pornwiroon, W., Bourchookarn, A., Paddock, C. D., Macaluso, K. R. (2015). Immunoproteomic profiling of *Rickettsia parkeri* and *Rickettsia amblyommii*.. *Ticks and Tick-borne Diseases*, 6(6), 829-835.
- Qureshi, A. T., Doyle, A., Chen, C., Coulon, D., Dasa, V., Del Piero, F., Levi, B., Monroe, W. T., Gimble, J. M., Hayes, D. J. (2015). Photoactivated miR-148b-nanoparticle conjugates improve closure of critical size mouse calvarial defects.. *Acta biomaterialia*, 12, 166-73.
- Raza, S., Deng, M., Shahin, F., Yang, K., Hu, C., Chen, Y, Chen, H, Guo, A. (2015) A Bovine Herpesvirus 1 pUL51 Deletion Mutant Shows Impaired Viral Growth in vitro and Reduced Virulence in Rabbits. *Oncotarget*. 7(11):12235-53.

- Reichley, S. R., Waldbieser, G. C., Ucko, M., Colorni, A., Dubytska, L., Thune, R. L., Lawrence, M. L., Griffin, M. J. (2015). Complete Genome Sequence of an *Edwardsiella piscicida*-Like Species Isolated from Diseased Grouper in Israel.. *Genome announcements*, 3(4).
- Rezai-Rad, M., Bova, J. F., Orooji, M., Pepping, J., Qureshi, A., Del Piero, F., Hayes, D., Yao, S. (2015). Evaluation of bone regeneration potential of dental follicle stem cells for treatment of craniofacial defects.. *Cytotherapy*, 17(11), 1572-81.
- Rezai, M., Bova, J., Orooji, M., Pepping, J., Qureshi, A., Del Piero, F., Hayes, D., Yao, S. (2015). Evaluation of bone regeneration potential of dental follicle stem cells (DFSCs) for treatment of craniofacial defects. *Cytotherapy*.
- Ribas, T., Pipe-Martin, H., Kim, K. S., Leissing, M. K., Bauer, R. W., Grasperge, B., Grooters, A. M., Sutton, D. A., Pariaut, R. (2015). Fungal myocarditis and pericardial effusion secondary to *Inonotus tricalis* (phylum Basidiomycota) in a dog. *Journal of Veterinary Cardiology*, 17(2), 142-148.
www.elsevier.com/locate/jvc
- Riley, S., Macaluso, K. R., Martinez, J. J. (2015). Electrotransformation and clonal isolation of *Rickettsia* species. *Current Protocols in Microbiology*, 39(3A.6), 1-20.
- Rogers, H., Taylor, S., Hawke, J., Anderson-Lively, J. (2015). Prevalence and distribution of three protozoan symbionts in blue crab (*Callinectes sapidus*) populations across Louisiana, USA.. *Diseases of Aquatic Organisms/Inter-research*, 114(1), 1-10. www.int-res.com/dao
- Rogers, H., Taylor, S., Hawke, J., Anderson-Lively, J. (2015). Variations in prevalence of viral, bacterial, and rhyzocephalan diseases and parasites of the blue crab (*Callinectes sapidus*). *Journal of Invertebrate Pathology*, 127, 54-62.
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- Rogers, H., Taylor, S., Hawke, J., Schott, E., Anderson-Lively, J. (2015). Disease, parasite, and commensal prevalences for blue crab *Callinectes sapidus* at shedding facilities in Louisiana, USA.. *Diseases of Aquatic Organisms/Inter-research*, 112(3), 207-217. www.int-res.com/dao
- Sokolova, Y., Pelin, A., Hawke, J., Corradi, N. (2015). Morphology and phylogeny of *Agmasoma penaei* (Microsporidia) from the type host, *Litopenaeus setiferus*, and the type locality, Louisiana, USA.. *International Journal for Parasitology/Elsevier*, 45(1), 1-16.
- Soto, E., Wang, R., Wiles, J., Baumgartner, W., Green, C., Plumb, J., Hawke, J. (2015). Characterization of isolates of *Streptococcus agalactiae* from diseased

farmed and wild marine fish from the U.S. Gulf Coast, Latin America, and Thailand.. *Journal of Aquatic Animal Health/Taylor and Francis*, 27, 123-134. dx.doi.org/10.1080/08997659.2015.1032439

Stanfield, B., Kousoulas, K. G. (2015). Herpes Simplex Vaccines: Prospects of Live-attenuated HSV Vaccines to Combat Genital and Ocular infections.. *Current clinical microbiology reports*, 2(3), 125-136.

Tessele, B., Rissi, D. R., Langohr, I., Vielmo, A., Barros, C. S. (2015). Mixed apocrine adenocarcinoma of the tail in a cow. *Brazilian Journal of Veterinary Pathology*, 8(2), 72-5.

Upchurch, D.A., Ogden, D.M., Baker, D.G. (2015). Bilateral femoral arterial dirofilariasis caused by *Dirofilaria immitis* in a dog. *Veterinary Record Case Reports* 3:1 e000184 doi:10. 1136/vetreccr-2015-000184.

Wang, R., Tekedar, H. C., Lawrence, M. L., Chouljenko, V. M., Kim, J., Kim, N., Kousoulas, K. G., Hawke, J. P. (2015). Draft Genome Sequences of *Edwardsiella ictaluri* Strains LADL11-100 and LADL11-194 Isolated from Zebrafish *Danio rerio*.. *Genome announcements*, 3(6).

Wang, R., Tekedar, H., Lawrence, M., Chouljenko, V., Kim, J., Kim, N., Kousoulas, K., Hawke, J. P. (2015). Draft genome sequences of *Edwardsiella ictaluri* strains LADL11-100 and LADL11-194. *Genome Announcements/ASM*, 3(6), 1-2. genomea.asm.org

Zoll, W. M., Needle, D. B., French, S. J., Lim, A., Bolin, S., Langohr, I., Agnew, D. (2015). *Sarcocystis* spp. Infection in two Red Panda Cubs (*Ailurus fulgens*). *Journal of Comparative Pathology*, 153(2-3), 185-9.

da Cunha, A. F., Ramos, S. J., Domingues, M., Beaufrere, H., Shelby, A., Stout, R. W., Acierno, M. J. (2015). Agreement between two commonly utilized oscillometric blood pressure technologies and directly measured pressure in the dog. *Veterinary Anaesthesia and Analgesia*.

Scientific Abstracts

Oral presentations

Altemus, S. (Author), Terry, J. (Author), Tully, T. N. (Author & Presenter), Fontenot, D. (Author), Brandao, J. (Author), Kelly, V. (Author), Miller, J. E., Exotics Conference, "Safety and Efficacy Trials of Copper Oxide Wire Particles and *Sericea Lespedeza* in a Research Population of Ring-Necked Doves and a Captive Population of Green Winged Doves," Association of Avian Veterinarians, Association of Exotic Mammal Veterinarians, Association of Reptile and Amphibian Veterinarians, San Antonio, Texas. (September 2015).

- Altemus, S. (Author), Terry, J. (Author), Tully, T. N. (Author & Presenter), Fontenot, D. (Author), Brandao, J. (Author), Kelly, V. (Author), Miller, J. E., 2nd International Conference on Avian Herpetological and Exotic Mammal Medicine, "Safety and Efficacy Trials of Copper Oxide Wire Particles and Sericea Lespedeza in a Research Population of Ring-Necked Doves and a Captive Population of Green Winged Doves," European Association of Avian Veterinarians, Association of Exotic Mammal Veterinarians, Association of Reptile and Amphibian Veterinarians, Paris, France. (April 2015).
- Behnke, M., 13th International Congress on Toxoplasmosis and Toxoplasma gondii Research, "Rhoptry Proteins ROP5 and ROP18 Are Major Murine Virulence Factors in Genetically Divergent South American Strains of Toxoplasma gondii.," Gettysburg, PA USA. (June 18, 2015).
- Bogard, K. (Presenter), Gaschen, F. P., Olson, E., Waddle, M. L., Stout, R. W., Gaschen, L., ACVIM Forum, "Double-blind, placebo-controlled ultrasonographic evaluation of the effect of antiemetic drugs on antral motility and gastric emptying in healthy dogs." (June 4, 2015).
- Brown, L. D. (Author & Presenter), Macaluso, K. R. (Author), Annual Meeting American Society for Tropical Medicine and Hygiene, "Novel Transmission of Mechanisms for Rickettsia felis.," American Society for Tropical Medicine and Hygiene, Philadelphia, Pa. (October 2015).
- Cheemarla, N. R. (Author & Presenter), Guerrero-Plata, M. A. (Author), LSU-PBS Graduate Symposium, "Activation and Regulation of the Innate Immune Response by Human Metapneumovirus Infection," Louisiana State University, Baton Rouge. (May 13, 2015).
- Cheemarla, N. R. (Author & Presenter), Banoa-Lara, M. R. (Author), Guerrero-Plata, M. A. (Author), Immunology 2015, "Protective Role of Neutrophils in Respiratory Parvovirus Infection," The American Association of Immunologists, New Orleans. (May 8, 2015).
- Christofferson, R., ASTMH, "Capturing Temporal Process of Vector Competence: EIP50," ASTMH. (October 2015).
- Crossland, N. (Presenter), DiGeronimo, P., Liu, A., Roy, A. F., Nevarez, J. G., Langohr, I., 25th Annual Southcentral Division Meeting, "Streptobacillus moniliformis placentitis in a rat," CL Davis Foundation, Galveston, TX. (October 2, 2015).
- Del Piero, F., South Central C.L. Davis Division Meeting, "Respiratory Pathology of Domestic Animals," Galveston, Texas. (October 2, 2015).

- Del Piero, F., First Uruguayan Charles Louis Davis Subdivision Symposium, "Gross Neuropathology of Domestic Animals," Paysandu', Uruguay. (June 13, 2015).
- Del Piero, F., First Uruguayan Charles Louis Davis Subdivision Symposium, "Gross Reproductive Pathology of Domestic Animals," Paysandu', Uruguay. (June 13, 2015).
- Del Piero, F. (Author), Crossland, N. (Author & Presenter), SEVPAC 2015, "Carp pox in ornamental *Cyprinus carpio*," SEVPAC, Tifton Georgia. (May 20, 2015).
- Fowler, A. (Presenter), da Cunha, A. F. (Author), Joyner, R. (Author), Ramos, S., Stout, R. W., Acierno, M. J., Phi Zeta Research Emphasis Day, "Direct canine blood pressure measurements made at different anatomical sites.," Louisiana State University, Baton Rouge, LA. (September 30, 2015).
- Gaschen, F. P. (Author & Presenter), Bogard, K. (Author), Olson, E. (Author), Waddle, M. (Author), Stout, R. W. (Author), Gaschen, L. (Author), International Veterinary Radiology Association, "Double-blind, placebo-controlled ultrasonographic evaluation of the effect of antiemetic drugs on antral motility and gastric emptying in healthy dogs," Perth, Western Australia. (August 18, 2015).
- Grasperge, B., "Arthropod-borne Diseases," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 24, 2015).
- Grasperge, B., "Clinical Pathology for Veterinary Technicians," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 24, 2015).
- Grasperge, B., "Cytology of Companion Animals: Effortless examination of smears," Louisiana Veterinary Medical Association, Lafayette, Louisiana. (January 23, 2015).
- Hawke, J. (Author & Presenter), Wang, R. (Author), Desonier, E. (Author), Aquaculture America 2015, "Detection and management of Edwardsiellosis in zebrafish," World Aquaculture Society, New Orleans, LA. (February 21, 2015).
- Jeyaseelan, S., "Role of Neutrophils in Bacterial Pneumonia," Georgia Regents University, Augusta, GA. (September 2015).
- Jeyaseelan, S., "Grant Writing Essentials," Louisiana State University, Baton Rouge, LA. (June 2015).
- Jeyaseelan, S., "From Laboratory Science to Academic Leadership: Opportunities and Challenges," Louisiana State University, Baton Rouge, LA. (March 2015).

- Jeyaseelan, S., "Innate Immune Mechanisms in Pneumonia and Sepsis," University of South Florida, Tampa, FL. (March 2015).
- Jeyaseelan, S., "Innate Immunity in Bacterial Pneumonia," North Carolina State University, Raleigh, NC. (February 2015).
- Joyner, R. (Author), Fowler, A. (Presenter), Ramos, S., Stout, R. W., da Cunha, A. F. (Author), Acierno, M. J., Phi Zeta Research Emphasis Day, "Validation of invasive blood pressure measurement methods in dogs," Louisiana State University, Baton Rouge, LA. (September 30, 2015).
- Langohr, I. (Presenter), Sakaguchi, K., Nevarez, J. G., Ferracone, J., Del Piero, F., XII Meeting of the Associazione Italiana di Patologia Veterinaria, "Ocular chlamydiosis in a farmed alligator (*Alligator mississippiensis*) in Louisiana, USA," Associazione Italiana di Patologia Veterinaria, Perugia, Italy. (June 2015).
- Langohr, I. (Presenter), Peterson, T., Storey, E. S., Rademacher, N., Paulsen, D. B., 25th Annual Southcentral Division Meeting, "Zygomatic sialadenitis in a dog," CL Davis Foundation, Galveston, TX. (October 3, 2015).
- Langohr, I. (Presenter), "Silica-Exacerbated Autoimmunity in Lupus-Prone Mice," LSU Department of Biological Sciences, Baton Rouge, LA. (March 30, 2015).
- Lopez, M. J. (Author & Presenter), Fargason, C. (Author), Kelly, L. (Author), Del Piero, F. (Author), Dasa, V. (Author), King, A. (Author), International Federation for Adipose Therapeutics and Science Meeting, "Stem cells augment demineralized bone matrix," New Orleans, LA. (November 8, 2015).
- Lopez, M. J. (Author & Presenter), Fargason, C. (Author), Kelly, L. (Author), Del Piero, F. (Author), Dasa, V. (Author), King, A. (Author), American College of Veterinary Surgeons Summit, "Stem cells augment demineralized bone matrix," Nashville, TN. (October 24, 2015).
- Macaluso, K. R., Southeastern Branch of the Entomological Society of America, "Molecular and ecological basis of ick-Rickettsia interactions," Entomological Society of America, Biloxi, MS. (March 15, 2015).
- Macaluso, K. R., Invited Speaker, "Molecular basis of Arthropod-Rickettsia interactions," Louisiana State University School of Medicine, New Orleans, LA. (February 26, 2015).
- Martinez, J. J., "Examining the molecular mechanisms of rickettsial pathogenesis," Stony Brook University. (May 18, 2015).
- Martinez, J. J., "Rickettsial pathogenesis: a molecular approach," Kansas State University. (March 19, 2015).

- Miller, J. E., SE Kiko Goat Association, "Integrating anthelmintics FAMACHA and other alternative measures for controlling nematodes in small ruminants," Hattiesburg, MS. (November 2015).
- Miller, J. E., GoatCamp, "Integrating anthelmintics FAMACHA and other alternative measures for controlling nematodes in small ruminants," Lohn, TX. (October 2015).
- Miller, J. E., World Association for the Advancement of Veterinary Parasitology, "Epidemiology of gastrointestinal nematode infection in exotic artiodactilids at Disney's Animal Kingdom and efficacy of Duddingtonia flagrans on infective larvae in feces," Liverpool, UK. (August 2015).
- Miller, J. E., American Association of Veterinary Parasitologists, "Evaluation of eprinomectin (LongRange®) for long-term control of gastrointestinal nematode infection in nursing calves during summer grazing," Boston, MA. (July 2015).
- Miller, J. E., Small Ruminant Field Day, "What small ruminant producers should know about internal parasites," Maine Livestock Extension Service, Gray, ME. (June 2015).
- Miller, J. E., Small Ruminant Producer Meeting, "Integrating anthelmintics FAMACHA and other alternative measures for controlling nematodes in small ruminants," Cobleskill, NY. (June 2015).
- Miller, J. E., What Works With Worms, "Does diatomaceous earth have a role in worm control?," Pretoria, South Africa. (May 2015).
- Miller, J. E., What Works With Worms, "Potential new dewormer methods," Pretoria, South Africa. (May 2015).
- Miller, J. E., Goat Field Day, "Sheep Production and diversification of small ruminants, FAMACHA certification," Southern University, Baton Rouge, LA. (April 2015).
- Miller, J. E., Magnolia Beef and Poultry Expo, "Update on Control of gastrointestinal nematode parasites in beef cattle emphasizing anthelmintic resistance," Raleigh, MS. (April 2015).
- Miller, J. E., Louisiana Veterinary Medical Association, "Update on control of gastrointestinal nematode parasites in ruminants emphasizing anthelmintic resistance," Lafayette, LA. (January 2015).

- Mores, C. (Author & Presenter), American Society of Tropical Medicine and Hygiene, "Insights of Ebola virus control, tracing, and transmission mitigation in treatment units and community settings," Philadelphia. (October 26, 2015).
- Mores, C. (Author & Presenter), Chikungunya: research barriers and opportunities, "Chikungunya: factors associated with significant transmission events," National Institutes of Health, Washington DC. (June 2015).
- Mores, C. (Author & Presenter), Models of Infectious Disease Agent Systems, "Modeling ebola transmission," National Institutes of Health, Atlanta, GA. (May 2015).
- Mores, C. (Author & Presenter), "Fighting ebola in Sierra Leone," Dominican University. (April 2015).
- Mores, C. (Author & Presenter), Great Plains Emerging Infectious Diseases Conference, "Fighting ebola in Sierra Leone," University of Iowa, Iowa City. (April 2015).
- Mores, C. (Author & Presenter), Biodefense and Emerging Infections Conference, "Predicting virus emergence and transmission potential," American Society for Microbiology, Washington DC. (February 2015).
- Pennhorst, K. (Author), Wei, H. (Author), Yezid, H. (Author), He, J. (Author), Chowdhury, S. I. (Author & Presenter), 2015 Veterinary Herpesvirus Satellite Meeting, "BHV-1 envelope protein UL49.5 virion incorporation is mediated by the direct interaction with gM and VP22.," Boise, Idaho, USA. (July 25, 2015).
- Peterson, T. (Author & Presenter), Schwartz, S. (Author), Merchant, S. R. (Author), Taboada, J. (Author), Storey, E. S. (Author), Bauer, R. W. (Author), 43rd Annual SEVPAC 2015, "Hindsight is 20/20," University of Georgia, Tifton, GA. (May 30, 2015).
- Rangasamy, T., Cai, S., Ghimire, L.Paudel, S., Jeyaseelan, S. Therapeutic Potential of Scal+ Lung Mesenchymal Stem Cells In Bacterial Pneumonia. Abstract submitted to NIH, NIGMS Sixth Bioennial National IDeA Symposium of Biomedical Research Excellence, Washington, DC. (June 26 – 28, 2016).
- Sakaguchi, K. (Presenter), Nevarez, J. G., Paulsen, D. B., Langohr, I., Bauer, R. W., Crossland, N., Del Piero, F., 2015 ACVP/ASVCP/STP Combined Annual Meeting, "Chlamydiosis in farmed alligators (*Alligator mississippiensis*) in Louisiana," American College of Veterinary Pathologists, Minneapolis, Minnesota. (October 18, 2015).
- Wakamatsu, N. (Author & Presenter), Crossland, N. (Author), Rinaldi, M. (Author), Williams, S. (Author), The American Veterinary Medical Association (AVMA)/

American Association of Avian Pathologist (AAAP) Annual Meeting, "Hepatic and pulmonary hemangiosarcoma in a backyard chicken," Boston, Massachusetts. (July 13, 2015).

Poster presentations

Ainsworth, S. (Presenter), Keowan, M. (Other), Fletcher, J. M. (Other), Kearney, M. T. (Other), Chapman, A. M. (Author), Louisiana Undergraduate Research Conference, "Evaluation of Adrenocorticotropin hormone concentrations in response varying doses of thyrotropin releasing hormone in normal horses," LSU Office of Strategic Initiatives, Baton Rouge, LA. (November 6, 2015).

Ainsworth, S. (Presenter), Keowan, M. (Other), Fletcher, J. M. (Other), Kearney, M. T. (Other), Chapman, A. M. (Author), Phi Zeta Research Day, "Evaluation of Adrenocorticotropin hormone concentrations in response varying doses of thyrotropin releasing hormone in normal horses," Louisiana State University, School of Veterinary Medicine, Baton Rouge, LA. (September 30, 2015).

Ainsworth, S. (Presenter), Keowan, M. (Other), Fletcher, J. M. (Other), Kearney, M. T. (Other), Chapman, A. M. (Author), LSU Summer Undergraduate Research Forum, "Evaluation of Adrenocorticotropin hormone concentrations in response varying doses of thyrotropin releasing hormone in normal horses," Louisiana Biomedical Research Network, Baton Rouge, LA. (July 3, 2015).

Banajee, K. H. (Presenter), Embers, M. E., Langohr, I., Doyle, L. A., Macaluso, K. R., 26th Annual Meeting American Society for Rickettsiology, "The effect of *Amblyomma maculatum* feeding on *Rickettsia parkeri* infection in Rhesus macaques," American Society for Rickettsiology, Lake Tahoe, Ca. (June 2015).

Banos-Lara, M. R. (Author), Cheemarla, N. R. (Author), Guerrero-Plata, M. A. (Author & Presenter), Regional IDEa Meeting, "Specific Response to Human Paramyxovirus Infections," NIH/INBRE, Biloxi, MS. (November 11, 2015).

Banos-Lara, M. R. (Author & Presenter), Guerrero-Plata, M. A. (Author), Phi Zeta Research Emphasis Day, "Mucosal Response to Human Paramyxovirus Infection.," Phi Zeta, Louisiana State University. (September 24, 2015).

Banos-Lara, M. R. (Author & Presenter), Guerrero-Plata, M. A. (Author), ASV 2015 34th Annual Meeting of the American Society for Virology, "Different Mucin Response than that of Human Metapneumovirus Infection," The American Society for Virology, Lonon, Ontario, Canada. (July 11, 2015).

Banos-Lara, M. R. (Author & Presenter), Guerrero-Plata, M. A. (Author), Immunology 2015, "Differential Mucin Gene Expression between Respiratory Human Prmyxovirus," The American Association of Immunologists, New Orleans. (May 8, 2015).

- Cheemarla, N. R. (Author & Presenter), Banos-Lara, M. R. (Author), Guerrero-Plata, M. A., Regional IDEa Meeting, "Regulation of Respiratory Paramyxovirus-induced Disease by Neutrophils," NIH/INBRE, Biloxi, MS. (November 11, 2015).
- Cheemarla, N. R. (Author & Presenter), Banos-Lara, M. R. (Author), Guerrero-Plata, M. A., Phi Zeta Research Emphasis Day, "Cellular Immune Response to Paramyxovirus Infection.," Phi Zeta, Louisiana State University. (September 24, 2015).
- Crossland, N. (Author & Presenter), Ali, I. (Author), Higbie, C. (Author), Jackson, J. (Author), Pirie, G. (Author), Bauer, R. W., 2015 ACVP/ASVCP/STP Combined Annual Meeting, "Amebic encephalitis caused by *Balamuthia mandrillaris* in a captive Indian flying fox (*Pteropus giganteus*)," Minneapolis, MN. (October 17, 2015).
- Dehghanpir, S. (Author & Presenter), Sokolova, Y. (Author), LaCour, J. (Author), Banajee, K. (Author), Grasperge, B. (Author), ACVP/ASVCP/STP Joint annual meeting, "Molecular characterization of an intraerythrocytic organism in an anemic Louisiana black bear," Minneapolis, MN. (October 2015).
- Dehghanpir, S. D. (Author & Presenter), Sokolova, Y. Y. (Author), LaCour, J. M. (Author), Banajee, K. H. (Author), Grasperge, B. (Author), Phi Zeta Research Emphasis Day, "Molecular characterization of an intraerythrocytic organism in an anemic Louisiana black bear," LSU - SVM. (September 2015).
- Del Piero, F., 40th World Small Animal Veterinary Association Congress, "A histological and molecular study of ocular Feline Infectious Peritonitis in domestic cats," WSAVA Global Veterinary Community, Bangkok Thailand. (May 18, 2015).
- Ecco, R. (Presenter), Moreira, M., Braga, J., Langohr, I., 2015 Annual Meeting of the American Association of Avian Pathologists, "Blindness in six young backyard chickens," Boston, MA. (July 2015).
- Gaignard, S. (Author & Presenter), Banos-Lara, M. R. (Author), Guerrero-Plata, M. A. (Author), 2015 Summer Undergraduate Forum, "Regulation of the Antiviral Immune Response by Mucin 21 Expression in Human Respiratory Infections," Louisiana State University, Baton Rouge, LA. (July 31, 2015).
- Gouchoe, D. A. (Author & Presenter), Wilson, L. D. (Author), Harre, J. (Author), Shaak, T. (Author), Francis, J., Wilson, C. B. (Author), USAFA Summer Research; Moore Award Contest, "The Effects of Toxoplasmosis During the Progression of Post-Traumatic Stress Disorder in a Predator Exposure Animal Model," USAFA, Colorado Springs, CO. (September 2015).

- Harris, E. K. (Author & Presenter), Macaluso, J. A. (Author), Banajee, K. H. (Author), Azad, A. F. (Author), Macaluso, K. R. (Author), 26th Annual Meeting American Society for Rickettsiology, "Characterization of Vertical and Horizontal Transmission of Pathogenic and Nonpathogenic Rickettsia within the two tick hosts *Dermacentor variabilis* and *Amblyomma maculatum*," American Society for Rickettsiology, Lake Tahoe, Ca. (June 2015).
- Higbie, C. (Presenter), LaRue, M., Flesner, B. K., Dehghanpir, S., Crossland, N., Nevarez, J. G., Tully, T. N., Grasperge, B., Langohr, I., Shiomitsu, K., ExoticsCon 2015, "Treatment of a thyroid tumor in an African Pygmy Hedgehog," Association of Reptilian and Amphibian Veterinarians (ARAV), the Association of Exotic Mammal Veterinarians (AEMV), and the Association of Avian Veterinarians (AAV), San Antonio, TX. (September 2015).
- Kim, K. (Author & Presenter), Ribas, T. (Author), Pipe-Martin, H. (Author), Leissenger, M. (Author), Grasperge, B. (Author), Grooters, A. M. (Author), Sutton, D. (Author), Pariaut, R. (Author), Bauer, R. W. (Author), 58th AAVLD/119th USAHA Annual Meeting, "Inonotus tropicalis Systemic Mycosis in a Dog," American Association of Veterinary Laboratory Diagnosticians, Providence, RI. (October 22, 2015).
- LaRue, M. (Presenter), Higbie, C., Dehghanpir, S., Crossland, N., Nevarez, J. G., Tully, T. N., Grasperge, B., Langohr, I., Shiomitsu, K., 2015 Phi Zeta Research Emphasis Day, "Treatment of a thyroid tumor in an African Pygmy Hedgehog," LSU - SVM, Baton Rouge, Louisiana. (September 2015).
- LeMelle, E. I., Carmichael, B., Santoke, T. T., Conway, H., Vu, T., Turner, S., Jarret, B., Lam, K., Chaudrey, U., Ismail, M., Swan, K. F., Bhattacharjee, P. S., Morris, C. B., Langohr, I., Kousoulas, K. G., Sullivan, D. E., McFerrin, H. E. (Presenter), Annual Meeting of the Louisiana Biomedical Research Network, "Cyclin-dependent kinase inhibitors reduce HSV-1-associated ocular neovascularization," Baton Rouge, LA. (February 2015).
- Legendre, K. P. (Author & Presenter), DiGeronimo, P. M. (Author), Del Piero, F. (Author), Grasperge, B. (Author), Phi Zeta Research Emphasis Day, "Multicentric lymphoma with circulating neoplastic lymphocytes in an African hedgehog," LSU - SVM. (September 2015).
- Malik, C. (Presenter), Keowan, M. (Other), Fletcher, J. M. (Other), Kearney, M. T. (Other), Chapman, A. M. (Author), Phi Zeta Research Day, "Evaluation of seasonal change in adrenocorticotropin concentrations in response to thyrotropin-releasing hormone in aged ponies," Louisiana State University, School of Veterinary Medicine, Baton Rouge, LA. (September 30, 2015).

- Malik, C. (Presenter), Keowan, M. (Other), Fletcher, J. M. (Other), Kearney, M. T. (Other), Chapman, A. M. (Author), Merial/NIH Veterinary Summer Scholars Conference, "Evaluation of seasonal change in adrenocorticotropin concentrations in response to thyrotropin-releasing hormone in aged ponies," Merial/NIH Veterinary Summer Scholars Program, Davis, CA. (August 1, 2015).
- Mulder II, A. T. (Author & Presenter), Naidu, S. (Author), Utsuki, T. (Author), Wakamatsu, N. (Author), Merck Merial Veterinary Symposium, "Immunohistological characterization of host responses in the spleen to dengue viral infection causing murine model of severe dengue disease," UC Davis, Davis, CA. (July 2015).
- Needle, D., Del Piero, F. (Presenter), Riis, R., Maes, R., Wise, A., Mullaney, K., Ferracone, J., Langohr, I., 40th World Small Animal Veterinary Association Congress, "A morphological and molecular study of ocular feline infectious peritonitis viral infection in domestic cats," World Small Animal Veterinary Association, Bangkok, Thailand. (May 2015).
- Noel, A., Vaitilingom, M., Le Donne, V., Paulsen, D. B., Jeyaseelan, S., Valsaraj, K., Penn, A. L., "Oxidation of pollen by atmospheric factors (O₃ and UV) aggravates markers of pollen allergenicity in the lungs," International Congress on Combustion by-products and their Health Effects, Umea, Sweden. (June 17, 2015).
- Pennhorst, K. (Author), Wei, H. (Author), He, J. (Author), Chowdhury, S. I. (Author & Presenter), 40th Annual International Herpesvirus Workshop, "BHV-1 envelope protein UL49.5 virion incorporation is mediated by the direct interaction with gM and VP22.," Boise, Idaho, USA. (July 25, 2015).
- Peterson, T. (Author & Presenter), Merchant, S. R., Taboada, J., Storey, E. S., Bauer, R. W., 2015 ACVP/ASVCP/STP Combined Annual Meeting, "Fluoroquinolone-Induced Retinal Degeneration in a Domestic Shorthair Feline," American College of Veterinary Pathology, Minneapolis, MN. (October 17, 2015).
- Peterson, T., Ryan, K. A., Del Piero, F., 2015 ACVP/ASVCP/STP Combined Annual Meeting, "Melarsomine Dihydrochloride-Related Myelopathy in a German Shepherd Dog," American College of Veterinary Pathologists, Minneapolis, Minnesota. (October 20, 2015).
- Pipe-Martin, H. (Author & Presenter), Fletcher, J. M. (Author), Gilor, C. (Author), Liu, C.-c. (Author), Webster, C. (Author), Kearney, M. T., Phi Zeta Research Emphasis Day, "Pharmacodynamics and pharmacokinetics of insulin aspart in cats," LSU School of Veterinary Medicine, Baton Rouge, LA. (September 30, 2015).

- Powers, D. (Author & Presenter), Baumruck, R. (Author), Wakamatsu, N. (Author), Naidu, S. (Author), Kearney, M. T., Granger, L. A. (Author), Phi Zeta, "Sonographic adrenal gland variation and histopathologic correlation in dogs.," UC Davis, Davis, CA. (September 2015).
- Powers, D. (Author & Presenter), Baumruck, R. (Author), Wakamatsu, N. (Author), Naidu, S. (Author), Kearney, M. T., Granger, L. A. (Author), Merck Merial Veterinary Symposium, "Sonographic adrenal gland variation and histopathologic correlation in dogs.," UC Davis, Davis, CA. (July 2015).
- Rangasamy, T., Cai, S., Ghimire, L., Paudel, S., Jeyaseelan, S. Investigating the Role of Mouse Sca1+ Lung Mesenchymal Stem Cells in Bacterial Pneumonia. COBRE Southeast Regional IDEa Conference, Biloxi, MS, (November 11-13, 2015).
- Richbourg, H. (Author & Presenter), Mirza, M. H. (Author), Fargason, C. (Author), Rademacher, N. (Author), Kearney, M. T. (Author), Lopez, M. J. (Author), Phi Zeta Research Day, LSU SVM, "Intra-articular platelet therapy to alleviate pain associated with equine osteoarthritis." (September 30, 2015).
- Romano, D. (Presenter), Nevarez, J. G., Sakaguchi, K., Langohr, I., Phillips, D., Ferracone, J., Del Piero, F., Langohr, I., 2015 Phi Zeta Research Emphasis Day, "West Nile Virus identification in alligators via various immunohistochemistry methods," LSU - SVM, Baton Rouge, Louisiana. (September 30, 2015).
- Sakaguchi, K. (Presenter), Nevarez, J. G., Paulsen, D. B., Bauer, R. W., Crossland, N., Langohr, I., Ferracone, J., Ritchie, B., Del Piero, F., 2015 ACVP/ASVCP/STP Combined Annual Meeting, Minnesota, Oct 17-2, "Chlamydiosis in Farmed American Alligators (*Alligator mississippiensis*)," American College of Veterinary Pathologists, Minneapolis, MN. (October 17, 2015).
- Solleti, S.K., Ahmad, A., Bhattacharya, S., Wang, Q., Mereness, J., Slaunwhite, C., Rangasamy, T., Mariani, T.J. Effect of electronic cigarettes on oxidative stress gene and microRNA expression from lung epithelial cells in vitro. Abstract submitted to American Thoracic Society International Conference, San Francisco, California., (May 13-18, 2016).
- Souza, E., Gusmão, A., Oliveira, R., Pereira, S. (Presenter), Langohr, I., Bolin, S., Oliveira, M., Zancopé-Oliveira, R., Gremião, I. D.F., Borba, C., Menezes, R., 19th International Society for Human and Animal Mycology Congress, "Feline sporothricosis: Treatment response, cutaneous histological alterations and identification of *Sporothrix* spp. in the state of Rio de Janeiro – Brazil," Melbourne, Australia. (May 2015).
- Uche, K. (Author & Presenter), Banos-Lara, M. R. (Author), Guerrero-Plata, M. A. (Author), Annual Biomedical Research Conference for Minority Students, "Novel

Mucosal Response in Human Respiratory Paramyxovirus Infections," The American Society for Microbiology, Seattle, WA. (November 11, 2015).

Uche, K. (Author & Presenter), Banos-Lara, M. R. (Author), Guerrero-Plata, M. A. (Author), 2015 Summer Undergraduate Forum, "Role of Mucin 19 in the Innate Immune Response Immune Response to Paramyxovirus Infection," Louisiana State University, Baton Rouge, LA. (July 31, 2015).

Verhoeve, V. I. (Author & Presenter), Petchampai, N. (Author), Harris, E. K. (Author), Banajee, K. H. (Author), Macaluso, K. R. (Author), 26th Annual Meeting American Society for Rickettsiology, "Identification of a full length transcript encoding a putative Relish-type NF-kB protein, DvRelish, in *Dermacentor variabilis*," American Society for Rickettsiology, Lake Tahoe, Ca. (June 2015).

Welborn, N., Ryan, K. A., Del Piero, F., Phi Zeta Day, "Suspect Melarsomine Dihydrochloride Related Myelopathy in German Shepherd dog," Phi Zeta - LSU. (September 30, 2015).

Published Abstracts

Altemus, S., Terry, J., Tully, T. N., Fontenot, D., Brandao, J., Kelly, V., Miller, J. E. (2015). *Safety and Efficacy Trials of Copper Oxide Wire Particles and Sericea Lespedeza in a REsearch Population of Ring-Necked Doves and a Captive Population of Green-Winged Doves*. San Antonio, Texas: Exotics Conference (AAV, ARAV, AEMV).

Altemus, S., Terry, J., Tully, T. N., Fontenot, D., Brandao, J., Kelly, V., Miller, J. E. (2015). *Safety and Efficacy Trials of Copper Oxide Wire Particles and Sericea Lespedeza in a REsearch Population of Ring-Necked Doves and a Captive Population of Green-Winged Doves*. Paris: 2nd International Conference on Avian Herpetological and Exotic Mammal Medicine.

Bogard, K., Gaschen, F. P., Olson, E., Waddle, M. L., Stout, R. W., Gaschen, L. (2015). *Double-blind, placebo-controlled ultrasonographic evaluation of the effect of antiemetic drugs on antral motility and gastric emptying in healthy dogs* (3rd ed., vol. 29, pp. 1184). *Journal of Veterinary Internal Medicine*.

Burke, J. M., Miller, J. E., Terrill, T. H., Smyth, E., Acharya, M. (2015). *Efficacy of copper oxide wire particles from three sources to control Haemonchus contortus in lambs* (pp. 46). American Society Animal Science Southern Section.

Burke, J. M., Acharya, M., Miller, J. E., Terrill, T. H., Smyth, E., Huff, G. R., Kegley, E. B., Coffey, K. P., Rosenkrans, C. F. (2015). *Influence of sericea*

lespedeza on relationships between gastrointestinal nematode infection and hematology, serum biochemistry, and trace minerals in lambs. (pp. 44). American Society Animal Science Southern Section.

Dubytka, L., Thune, R. L. (2015). *Protein-protein interactions of translocated effectors of the type III secretion system of Edwardsiella ictaluri.* Las Palmas Gran Canaria: Proceedings of the 17th International Conference on Disease of Fish and Shellfish.

Dubytka, L., Thune, R. L. (2015). *Characterization of the translocated effector proteins of the type III secretion system of Edwardsiella ictaluri.* Ithaca, NY: Proceedings of the Fish Health Section of the American Fisheries Society Annual Meeting.

Dubytka, L., Thune, R. L. (2015). *Putative target proteins of the translocated effector proteins of the type III secretion system of Edwardsiella ictaluri.* Ithaca, NY: Proceedings of the Fish Health Section of the American Fisheries Society Annual Meeting.

Gautreaux, S., Koch, C., Kearney, M. T., McConnico, R. S. (2015). *Salivary cortisol levels in horses receiving acupuncture or therapeutic massage.* Baton Rouge, LA: Proceedings of the LSU-SVM Phi Zeta (Merck, NIH) Research Symposium.

Gautreaux, S., Koch, C., Kearney, M. T., McConnico, R. S. (2015). *Salivary cortisol levels in horses receiving acupuncture or therapeutic massage.* Davis, CA: Proceedings of the National Phi Zeta (Merck, NIH) Research Symposium.

Hamilton, T. N., Terrill, T. H., Kommuru, D. S., Rivers, A., Mosjidis, J. A., Miller, J. E., Burke, J. M. (2015). *Effect of supplemental sericea lespedeza leaf meal pellets on health and productivity of grazing goats* (pp. 10). American Society Animal Science Southern Section.

Lopez, M. J., Fargason, C., Kelly, L., Del Piero, F., Dasa, V., King, A. (2015). *Demineralized human bone matrix with syngeneic adult adipose-derived multipotent stromal cells accelerates spinal fusion.* International Federation for Adipose Therapeutics and Science Proceedings.

Lopez, M. J., Fargason, C., Kelly, L., Del Piero, F., Dasa, V., King, A. (2015). *Demineralized human bone matrix with syngeneic adult adipose-derived multipotent stromal cells accelerates spinal fusion.* American College of Veterinary Surgery Summit Proceedings.

Mulder II, A. T., Naidu, S., Utsuki, T., Wakamatsu, N. (2015). *Immunohistological characterization of host responses in the spleen to dengue viral infection causing murine model of severe dengue disease.* UC Davis, Davis, CA: Merial Veterinary Scholars Program.

Powers, D., Baumruck, R., Wakamatsu, N., S. N., Kearney, M. T., Granger, L. A. (2015). *Sonographic adrenal gland variation and histopathologic correlation in dogs*. UC Davis, Davis, CA: Phi Zeta.

Powers, D., Baumruck, R., Wakamatsu, N., S. N., Kearney, M. T., Granger, L. A. (2015). *Sonographic adrenal gland variation and histopathologic correlation in dogs*. UC Davis, Davis, CA: Merial Veterinary Scholars Program.

Smyth, E., Burke, J. M., Acharya, M., Miller, J. E., Coffey, K. P. (2015). *Grass finishing systems for lambs born in fall and winter* (pp. 9). American Society Animal Science Southern Section.

Wakamatsu, N., Crossland, N., Rinaldi, M., Williams, S. (2015). *Hepatic and pulmonary hemangiosarcoma in a backyard chicken*. Annual AAAP/AVMA proceeding.

Grant Activity

Funded proposals

Chowdhury, Shafiqul (PI), Paulsen, Daniel B, "Novel bovine herpes virus type 1 (BHV-1) vectored vaccine against viral infections associated with bovine respiratory disease complex (BRDC)," Sponsored by USDA/NIFA, Federal, \$493,000. (March 1, 2015 - February 28, 2018).

Christofferson, Rebecca (PI), "BHEARD Program - Rwanda," Sponsored by USAID, Federal, \$211,776. (August 2015 - Present).

Nevarez, Javier G (PI), Del Piero, Fabio, "Veterinary Services for the Louisiana Alligator Industry," Sponsored by Louisiana Department of Wildlife and Fisheries, State, \$89,280. (2015 - Present).

Witonsky, Sharon (PI), Andrews, Frank M, Del Piero, Fabio, Keowen, Michael L, Garza, Jr., Frank, "Equine Protozoal Myeloencephalitis (EPM): Identifying the immune response and the role of infection," Sponsored by Virginia Horse Industry Board, State, \$10,000. (July 1, 2015 - July 1, 2016).

Witonsky, Sharon (PI), Andrews, Frank M, Del Piero, Fabio, Keowen, Michael L, Garza, Jr., Frank, "Equine Protozoal Myeloencephalitis (EPM): Identifying the immune response and the role of infection," Sponsored by Virginia Maryland Regional College of Veterinary Medicine Internal Grant, Other, \$19,998. (July 1, 2015 - July 1, 2016).

- Martinez, Juan J (PI), Del Piero, Fabio, "The Roles of Conserved outer-membrane proteins in SFG rickettsia pathogenesis," Sponsored by : National Institutes of Health - NIH, \$1,835,600. (2015).
- Guerrero-Plata, M Antonieta (PI), "Molecular mechanisms of Viral Disease Enhancement by Tobacco Smoke Exposure," Sponsored by The Flight Attendant Medical Research Institute, Private, \$325,000. (July 1, 2015 - June 30, 2018).
- Guerrero-Plata, M Antonieta (PI), "Mucosal Response in Human Metapneumovirus Infection," Sponsored by NIH/COBRE, Federal, \$50,000. (October 1, 2015 - September 30, 2016).
- Guerrero-Plata, M Antonieta (PI), Banos-Lara, Ma. R., "Role of Mucin 19 Response in Respiratory Viral Infections," Sponsored by The American Association of Immunologists, \$50,112. (September 1, 2015 - August 30, 2016).
- Hawke, John (PI), "Utility of wild type and mutant strains of *Edwardsiella ictaluri* from zebrafish as live attenuated vaccines in channel catfish *Ictalurus punctatus*," Sponsored by USDA 1433, Federal, \$7,000. (July 1, 2015 - September 30, 2016).
- Martinez, Juan J, Kousoulas, Konstantin G (PI), "Center for Experimental Infectious Disease Research (COBRE) Phase III," Sponsored by NIH/NIAID. (May 1, 2015 - April 30, 2016).
- Figuera, Rafael (PI), Flores, Mariana M, Langohr, Ingeborg, "Evaluation of histological grade and immunohistochemical profile of mast cell tumors in canine skin," Sponsored by Science without Borders Program, Brazilian Ministry of Education, Doctoral Sandwich Abroad Scholarship, Federal, \$10,500. (June 1, 2015 - November 30, 2015).
- Macaluso, Kevin R (PI), "Mechanisms and molecules required for flea-borne transmission of *Rickettsia felis*," Sponsored by NIH/NIAID, Federal, \$1,875,000. (December 2015 - December 2020).
- Malone, John (PI), Pulaski, Cassan, "Epidemiology of Heartworm drug resistance in Louisiana," Sponsored by Hunting Retriever Club Foundation, Private, \$2,500. (April 2015 - Present).
- Malone, Jr, John B (PI), Cassan, "Epidemiology of Macrocytic Lactone Drug Resistance to *Dirofilaria* in Louisiana," Sponsored by National Center for Veterinary Parasitology - Okla State Univ, Other, \$100,000. (January 1, 2015 - December 31, 2017).
- Malone, Jr, John B (PI), Pulaski, Cassan, "Spatial epidemiology of macrocytic lactone resistance in *Dirofilaria immitis* within the Mississippi Delta region of the

USA," Sponsored by Oklahoma State University Foundation, State, \$11,500. (December 2015 - December 2016).

Martinez, Juan J (PI), "The retropepsin-like enzyme RC1339/APRc from Rickettsiae as a potential therapeutic target for rickettsial disease," Sponsored by NIH/NIAID. (May 1, 2015 - April 30, 2017).

Mores, Christopher (PI), "Interagency Personnel Act agreement," Sponsored by US Naval Medical Research Unit 6, Federal, \$460,885. (August 2015 - Present).

Mores, Christopher, "BHEARD Program - Rwanda," Sponsored by USAID, Federal, \$221,776. (July 2015 - Present).

McNulty, Margaret A, Mores, Christopher (PI), "Chikungunya viral pathogenesis models for inflammatory arthritis," Sponsored by CEIDR COBRE, Louisiana State University. (August 1, 2015 - June 30, 2016).

Paulsen, Daniel B, Roy, Alma F (PI), "National Institute of Food and Agriculture - NAHLN:LA (USDA-NIFA-ES-004857)," Sponsored by Dept of Agriculture - USDA, Federal, \$202,000. (August 15, 2015 - August 14, 2016).

Rangasamy, T. (PI), Samithamby, J. Sca1+ LMSC Based Intervention in Bacterial Pneumonia. COBRE/CEIDER Pilot Grant, NIGMS. \$50, 000. (October, 2015 – September, 2016).

Roy, Alma F (PI), Paulsen, Daniel B, Jowett, Peter, "CVM Vet-LRN Veterinary Diagnostic Laboratory Program," Sponsored by Food and Drug Administration, Federal, \$16,500. (July 1, 2015 - June 30, 2016).

Flesner, Brian K (PI), Boudreaux, Bonnie L, Stout, Rhett W, "Examining the Efficacy of CM101 as a Primary and/or Adjuvant Agent in the Treatment of Canine Solid Tumors, Pilot Study," Sponsored by Tumor End. (2015 - Present).

Thune, Ronald L. (PI), "Determination of the host-cell protein targets for the Edwardsiella ictaluri type three secretion system effectors.," Sponsored by LSU/SVM 1433, Federal, \$16,924. (October 1, 2015 - September 30, 2017).

Wilson, C. Brad, McLaughlin, Leslie D., Francis, Joseph. Inflammation, Oxidative Stress, and Neuroprotective Mechanisms in the Pathophysiology of PTSD in an Animal Model: Measuring the Therapeutic Effects of Blueberries, Exercise, and Prolonged Exposure Therapy. Sponsored by US Army Medical Research Materiel Command (USAMRMC) Broad Agency Awarded \$250,000.

Wilson, Leslie D, Wilson, Carl B, Francis, Joseph, Shaak, Thomas J, Kelly III, Richard, "The Behavioral and Physiological Effects of Prolonged Exposure Therapy (PET) in a Predator Exposure/Psychosocial Stress Rat Model (Rattus

norvegicus) of Post Traumatic Stress Disorder (PTSD)," Sponsored by Air Force Military Support Agency (AFMSA), \$26,277. (May 2015 - August 2015).

Yang, Kui. "High-throughout Screening of CRISPR-Cas9 Library for Host Factors Essential for HSV-1 Replication." Sponsored by COBRE, (Sep 2015-April 2016).

Pending proposals

Embers, Monica E (PI), Grasperge, Britton, "Identification of Tick Chemoattractant(s) for *B. burgdorferi*," Sponsored by National Institutes of Health, Federal. (October 2015 - Present).

McNulty, Margaret A (PI), Mores, Christopher, "Effect of chikungunya virus infection and subsequent viral arthritis on pre-existing osteoarthritis severity., " Sponsored by School of Vet Med CORP, Louisiana State University. (July 1, 2015 - Present).

Unfunded proposals

Kousoulas, Konstantin G (PI), Chouljenko, Vladimir M, Langohr, Ingeborg, "Production of a novel live-attenuated Feline Herpesvirus type-1 vaccine," Sponsored by Louisiana Board of Regents, State. (August 1, 2014 - July 31, 2016).

Chouljenko, Vladimir M (PI), Langohr, Ingeborg, "Development of a vaccine to protect cats against feline herpes virus infection," Sponsored by LSU SVM Competitive Organized Research Program. (July 1, 2014 - June 30, 2015).

Macaluso, Kevin R (PI), Grasperge, Britton, "Molecular Basis of Spotted Fever Group Rickettsia Competence in Vector Ticks," Sponsored by National Institutes of Health. (June 2015 - Present).

Grasperge, Britton (PI), Macaluso, Kevin R, Wolfson, Wendy, "The role of companion animals in the ecoepidemiology of tick-borne rickettsial diseases," Sponsored by NIH, Federal. (June 2015 - Present).

Anderson-Lively, Julie A (PI), Hawke, John P., Sokolova, Yuliya, "Disease and Parasite Threats Causing Soft Shell Blue Crab Mortalities," Sponsored by USDA-NIFA-AFRI, Federal. (September 1, 2014 - Present).

Cheng, Henrique, Kousoulas, Konstantin G (PI), "Molecular Determinants of HSV-1 Neuronal Infectivity," Sponsored by NIH. (September 1, 2015 - January 31, 2019).

Flesner, Brian K (PI), Boudreaux, Bonnie L, Dedeaux, Andrea, Langohr, Ingeborg, Taboada, Joseph, Treppanier, Lauren, "Evaluation of CCNU Induced Hepatotoxicity in Dogs," Sponsored by Department Research, \$0. (2015 - Present).

Langohr, Ingeborg (PI), "The Biological Cycle of Vitamin A Availability: An Integrated Study of Mother-Infant Dyads and their Dairy Cattle in Kenya," Sponsored by Michigan State University (NSF), Federal, \$358,045. (January 1, 2015 - December 31, 2016).

Langohr, Ingeborg (PI), "Feline sporotrichosis: Prediction of treatment response by clinical signs, cutaneous histological alterations and Sporothrix species," Sponsored by Winn Feline Foundation, Other. (April 1, 2014 - March 31, 2015).

Malone, Jr, John B (PI), Pulaski, Cassan, Prichard, Roger, Bouguinat, Catherine, "Ecology of emerging resistance of canine heartworms to macrocyclic lactone preventative drugs," Sponsored by Morris Animal Foundation, Private, \$0. (October 2014 - 2015).

Active grants this year

Macaluso, Kevin R (PI), Baker, David G, Taboada, Joseph, "Biomedical Research Experience for Veterinary Students.," Sponsored by National Institutes for Health, Federal, \$56,000. (August 2013 - Present).

Macaluso, Kevin R (PI), Baker, David G, Taboada, Joseph, "Biomedical Research Experience for Veterinary Students.," Sponsored by National Institutes for Health, Federal, \$60,000. (August 15, 2013 - July 31, 2018).

Chouljenko, Vladimir M, "Louisiana Biomedical Research Network (LBRN)," Sponsored by NIH: NCCR, Federal. (September 25, 2001 - April 30, 2015).

Chowdhury, Shafiqul I. (PI), "Development of a BHV-1 gE Cytoplasmic Tail Based Serological Marker Test," Sponsored by USDA/Formula funds, Federal, \$17,202. (October 1, 2014 - September 30, 2016).

Chowdhury, Shafiqul (PI), "Construction of a dual gene- deleted (envelope glycoprotein E and thymidine kinase TK-deleted) pseudorabies virus (PRV) expressing classical swine fever envelope protein E2 and porcine circovirus 2b (PCV2b) capsid (CAP) proteins.," Sponsored by CEVA, Private, \$350,000. (January 15, 2014 - January 30, 2016).

DiGiovanni, Daria (PI), McCauley, Charles T, Riggs, Laura M, Mitchell, Colin F, Burba, Daniel J, Mirza, Mustajab H, Del Piero, Fabio, "Histologic Changes to the Muscular Portion of the Hind Suspensory Ligament of Horses as a Result of Neurectomy of the Deep Branch of the Lateral Plantar Nerve.," Sponsored by

Charles V. Cusimano EHSP, Louisiana State University, \$1,340. (October 2014 - Present).

Gaunt, Stephen D, Corstvet, Richard, "Canine vaccine for Ehrlichia canis," Sponsored by Intervet/Merial, Louisiana State University. (May 2008 - December 2015).

McRee, Anna (PI), Tully, Thomas N, Nevarez, Javier G, Beaufrere, Hugues, Ammersbach, Melanie, Gaunt, Stephen D, Romero, Micahel, "Avian stress response: Investigating the connection between handling, corticosterone, and clinical pathological parameters in Hispaniolan Amazon parrots (*Amazona ventralis*)," Sponsored by LSU, Louisiana State University, \$4,000. (November 2014 - July 1, 2015).

Guerrero-Plata, M Antonieta (PI), "Molecular Analysis of Respiratory Syncytial Virus Infection in Immune Cells," Sponsored by LSU Board of Regents, State, \$10,000. (October 1, 2014 - September 30, 2015).

Guerrero-Plata, M Antonieta (PI), "Regulatory Mechanisms of The Immune Response by Respiratory Paramyxovirus Infection," Sponsored by Louisiana State University, Louisiana State University, \$10,000. (July 1, 2014 - June 30, 2015).

Hawke, John P. (PI), "Comparative pathogenesis of ureG and esrC mutants of *Edwardsiella ictaluri* and their utility as live attenuated vaccines in laboratory zebrafish *Danio rerio*," Sponsored by USDA 1433, \$7,000. (September 1, 2014 - September 30, 2015).

Hawke, John P (PI), "Louisiana Cooperative Fish Disease Project," Sponsored by Louisiana Department of Wildlife and Fisheries, State, \$120,000. (July 1, 2012 - June 30, 2015).

Jeyaseelan, Samithamby (PI), "Neutrophil Function in Bacterial Pneumonia," Sponsored by NIH, Federal, \$1,858,300. (December 1, 2014 - November 1, 2019).

Jeyaseelan, Samithamby, "CRC-specific near-IR agent for tumor imaging," Sponsored by NIH, Federal, \$1,256,000. (August 1, 2014 - July 30, 2018).

Jeyaseelan, Samithamby, "Inflammasome signaling in COPD and Emphysema," Sponsored by FAMRI, Private, \$525,500. (July 1, 2013 - June 30, 2018).

Jeyaseelan, Samithamby (PI), "Neutrophil Accumulation in Bacterial Pneumonia," Sponsored by NIH, Federal, \$1,860,000. (July 1, 2013 - April 1, 2018).

- Jeyaseelan, Samithamby, "NALP6 Inflammasome is Critical to Cigarette Smoke-induced Airway Inflammation," Sponsored by FAMRI, Private, \$525,500. (July 1, 2012 - June 30, 2017).
- Jeyaseelan, Samithamby, "NOD-Like Receptor Signaling is Critical to Secondhand Smoke-Induced Innate Immune Responses," Sponsored by NIH, Federal, \$1,860,000. (August 1, 2013 - July 1, 2016).
- Jeyaseelan, Samithamby, "Secondhand Smoke Promotes Antibiotic Resistance & Virulence in Upper Airway Bacteria: A Novel Mechanism for Secondhand Smoke-Induced Airway Diseases," Sponsored by FAMRI, Private, \$217,000. (July 1, 2013 - June 30, 2015).
- Jeyaseelan, Samithamby (PI), "Suppression of Neutrophil Immunity by Smoke," Sponsored by FAMRI, Private, \$325,500. (July 1, 2012 - June 30, 2015).
- Kousoulas, Konstantin G, "Louisiana Biomedical Research Network (LBRN)," Sponsored by National Institutes of Health, Louisiana State University, \$17,000,000. (September 25, 2001 - April 30, 2015).
- Langohr, Ingeborg (PI), "Feline sporotrichosis: Prediction of treatment response by clinical signs, cutaneous histological alterations and Sporothrix species," Sponsored by LSU SVM Competitive Organized Research Program, \$7,950. (July 1, 2014 - June 30, 2015).
- Langohr, Ingeborg (PI), "Dietary Lipids and Silica-Accelerated Autoimmunity," Sponsored by Michigan State University (NIH/NIEHS), Federal. (September 30, 2013 - March 30, 2015).
- Macaluso, Kevin R (PI), "Molecular Basis for Spotted Fever Group Rickettsia Vector Competence in Ticks," Sponsored by NIH/NIAID, Federal, \$1,875,000. (September 2009 - January 2020).
- Macaluso, Kevin R (PI), "Biomedical Research Experience for Veterinary Students.," Sponsored by National Institutes for Health, Federal, \$283,305. (September 1, 2013 - July 31, 2018).
- Deng, Zhiquiang, Malone, John B, Brown, Jeremy M, Chouljenko, Vladimir N, Park, Seung-Jong, "Initiative for Predicting Norovirus Outbreak Risks," Sponsored by Louisiana State University FRG MPPG, Louisiana State University, \$60,000. (July 1, 2014 - June 30, 2015).
- Martinez, Juan J (PI), "The roles of conserved outer-membrane proteins in SFG rickettsia pathogenesis," Sponsored by NIH/NIAID, Federal, \$338,841. (March 1, 2014 - February 28, 2015).

- Martinez, Juan J (PI), "Evasion of complement-mediated killing by pathogenic rickettsial species," Sponsored by NIH/NIAID, Federal, \$407,000. (February 15, 2013 - January 31, 2015).
- Miller, James E (PI), "Investigating the mechanism of action of sericea lespedeza condensed tannin on Eimeria spp. of sheep," Sponsored by USDA Formula Funds, Federal, \$17,500. (2014 - Present).
- Miller, James E, "Impairing larval exsheathment in parasitic nematodes by using Mid-Eastern plants as resource of anthelmintics compounds," Sponsored by USDA BARD MARD, Federal, \$5,300. (2014 - 2016).
- Miller, James E, Sims Bros (PI), Burke, Joan M., Terrill, Thomas H., Mosjidiis, Jorge A., "A Pelleted Sericea Lespedeza Supplement for Control of Internal Parasites on Small Farms," Sponsored by USDA SBIR, Federal, \$55,136. (2011 - 2015).
- Miller, James E, Burke, J M (PI), Terrill, T H, Mosjidis, J (PI), "A systems approach to control gastrointestinal nematodes in organic small ruminant production," Sponsored by USDA Organic Initiative, Federal, \$161,000. (2010 - 2015).
- Seibert, Lyndsea, Welborn, Matthew G, Kelly, Vicky, Young, Kristen, Garza, Javier, Miller, James E (PI), "Evaluation of Eprinomectin (LongRange) for long-term control of gastrointestinal nematode infection in nursing calves during summer grazing," Sponsored by Merial Veterinary Services, Private. (June 2, 2014 - May 30, 2015).
- Mores, Christopher (PI), "Borloug Fellowship - Scientific Exchange Program," Sponsored by USDA, Federal, \$35,000. (2013 - Present).
- Mores, Christopher (PI), "Borloug Fellowship - Scientific Exchange Program," Sponsored by USDA, Federal, \$35,000. (2012 - Present).
- Mores, Christopher (PI), "Predicting vector-borne virus transmission dynamics and emergence potential," Sponsored by National Institutes of Health, Federal, \$3,200,000. (May 2011 - April 2016).
- Paulsen, Daniel B, Roy, Alma F (PI), "National Institute of Food and Agriculture - NAHLN:LA (USDA-NIFA-ES-004857)," Sponsored by Dept of Agriculture - USDA, Federal, \$202,000. (August 15, 2014 - August 14, 2015).
- Roy, Alma F (PI), Paulsen, Daniel B, Jowett, Peter, "CVM Vet-LRN Veterinary Diagnostic Laboratory Program," Sponsored by Food and Drug Administration, Federal, \$16,500. (July 1, 2014 - June 30, 2015).
- Pucheu-Haston, Cherie M (PI), Lane, Martha, Roy, Alma F, "Determination of antibiotic resistance profiles for Staphylococcus pseudintermedius isolated at

Louisiana State University from 2005-2013," Sponsored by Departmental Research. (September 2013 - Present).

Pucheu-Haston, Cherie M (PI), Wolfson, Wendy, Duhon, Brandy, Zewe, Christine, Roy, Alma F, "Determination of dermatophyte species most commonly associated with clinical lesions in cats in shelters in southeast Louisiana," Sponsored by Departmental Research, Louisiana State University. (September 2013 - June 2016).

Gaschen, Lorrie (PI), da Cunha, Anderson F, Stout, Rhett W, "Validation of Quantitative Non-Invasive MRI Profiling of Atherosclerosis," Sponsored by Elucid Bioimaging, Inc. (December 2014 - Present).

Pariaut, Romain, Stout, Rhett W (PI), "Advantage multi and doxycycline as an alternative heartworm adulticide treatment," Sponsored by DLAM, Louisiana State University. (2013 - Present).

Stout, Rhett W, Liu, Zhijun (PI), Russo, Paul, "Oral paclitaxel solubilized and bioenhanced by food compound for breast cancer therapy," Sponsored by NIH SP38664-1, Federal. (July 1, 2012 - Present).

Thune, Ronald L. (PI), "Role of translocated effector proteins of the Type III secretion system of *Edwardsiella ictaluri* in pathogenesis," Sponsored by National Institute of Food and Agriculture, Agriculture and Food Research Initiative, Federal, \$499,551. (October 1, 2013 - September 30, 2017).

Thune, Ronald L. (PI), "Determination of the host-cell protein targets for the *Edwardsiella ictaluri* type three secretion system effectors., " Sponsored by LSU/SVM 1433, Federal, \$18,458. (October 1, 2014 - September 30, 2016).

Coulter, Cassaundra (PI), Granger, L. Abbi, Wakamatsu, Nobuko, Gaschen, Lorrie, "Sonographic Pancreatic Variation and Histopathologic Correlation in Normal Dogs," Sponsored by Hunting Retriever Club Foundation, Inc., Private. (July 2014 - July 2015).

Wilson, Leslie D, "Gene Expression Differences in PTSD using a Predator Exposure Animal Model," Sponsored by Airforce Clinical Research Laboratory, Keesler AFB, \$20,000. (October 2013 - Present).

Wilson, Leslie D, Francis, Joseph, "The Effects of Flight Stress on an Animal Model of PTSD," Sponsored by Air Force Clinical Research Laboratory, Keesler AFB, \$90,000. (March 2013 - Present).

Engagement

Honors and Awards

Baker, David

Dean's Teacher Merit Honor Roll, Dean of School of Veterinary Medicine. (May 1, 2015).

Chowdhury, Shafiqul I.

Excellence in innovation 2015, LSU office of Innovation and Technology Commercialization. (April 2015).

Zoetis 2015 Research Award. (March 2015).

Del Piero, Fabio

Dean's Teacher Merit Honor Roll, Dean of School of Veterinary Medicine. (May 1, 2015).

Gaunt, Stephen D

Dean's Teacher Merit Honor Roll-- Years 2 and 4. (May 2015).

Guerrero-Plata, Maria Antonieta

AAI Laboratory Travel Grant, The American Association of Immunologists. (May 2015).

Jeyaseelan, Samithamby

Travel Award- Ritwij Kulkarni, American Thoracic Society Meeting. (May 31, 2015).

Langohr, Ingeborg Maria

2015 Dean's Teacher Merit Honor Roll, LSU SVM. (May 1, 2015).

Macaluso, Kevin R

Mary Louise Martin Professor, LSU/SVM. (June 2015).

Dean's Merit Honor Roll for Teaching Excellence, LSU/SVM. (May 2015).

Mores, Christopher N

Kavli Fellow, National Academy of Sciences. (July 30, 2015).

Paulsen, Daniel B

Dean's Teacher Merit Honor Roll. (May 1, 2015).

Rangasamy, Tirumalai

Young Investigator Travel Award. Received at The National IDeA Symposium of Biomedical Research of Excellence: Conducted by National Institute of Health, Washington DC, USA.

Stout, Rhett W

SVM Service Award, LSU SVM. (May 10, 2015).

Dean's Teacher Merit Honor Role, LSU SVM. (May 1, 2015).

Wakamatsu-Utsuki, Nobuko

Dean's teacher merit honor roll, LSU-SVM. (May 1, 2015).

Wilson, Leslie D

LSU School of Veterinary Medicine Dean's Teacher Merit Honor Roll (Yr. 1 and 2) 2015. (April 2015).

Offices held in Professional Societies

Del Piero, Fabio

President (January 1, 2015 - December 31, 2015) Phi Zeta Honor Society of Veterinary Medicine

Langohr, Ingeborg Maria

President (November 2014 - December 2016) Latin Comparative Pathology Group

Mores, Christopher N

President (November 2014 - October 2015) American Committee on Arthropod-borne Viruses

Wakamatsu-Utsuki, Nobuko

President (2010 - 2015) Japanese Group of American College of Veterinary Pathologists

Editorial review boards

Elzer, Philip H

Editor, Journal Editor, Journal of Wildlife Diseases. (2005 - Present).

Guerrero-Plata, Maria Antonieta

Editorial Review Board Member, Virology & Antiviral Research. (April 2012 - Present).

Editorial Review Board Member, Virology & Mycology. (July 2011 - Present).

Jeyaseelan, Samithamby

Editorial Review Board Member, American Journal of Respiratory Cell and Molecular Biology. (January 1, 2012 - Present).

Editorial Review Board Member, American Journal of Respiratory Cell and Molecular Biology. (January 1, 2011 - Present).

Editor, Journal Editor, PLoS One. (January 1, 2009 - Present).

Editor, Senior Editor, PLoS One- Journal. (January 1, 2009 - Present).

Langohr, Ingeborg Maria

Editorial Review Board Member, Journal "Veterinary Pathology". (2014 - Present).

Mores, Christopher N

Editor, Associate Editor, PLoS Neglected Tropical Diseases. (August 2013 - Present).

Editor, Journal Editor, PLoS ONE. (2010 - Present).

Rangasamy, Tiumalai

Editorial Review Board Member, ISRN Pathology (2011- present).

Editorial Review Board Member, Dataset Papers in Medicine (2012- present).

Editorial Review Board Member, World Journal of Respiratory (2013- present).

Editorial Review Board Member, World Journal of Biological Chemistry (2013- present).

Editorial Review Board Member, Immune Cell (2014- present)

Thune, Ronald L

Editorial Review Board Member, PLOS ONE. (July 2013 - Present).

Wakamatsu-Utsuki, Nobuko

Editor, Associate Editor, Trends in Animal and Veterinary Sciences. (2011 - Present).

