

CURRICULUM VITAE

Blanca M. Lupiani, Ph.D.

CURRENT POSITION AND CONTACT INFORMATION

Title: *Professor*, Department of Veterinary Pathobiology, School of Veterinary Medicine & Biomedical Sciences, Texas A&M University
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EDUCATION

- Ph.D., Veterinary Science (Molecular Virology), University of Maryland, College Park, 1994
- B.S., Biology (Molecular Biology), Universidad de Santiago de Compostela (Spain), 1988

ACADEMIC APPOINTMENTS

Faculty

- *Professor* (with tenure), Department of Veterinary Pathobiology, Texas A&M University, September 2012-Present
- *Associate Professor* (with tenure), Department of Veterinary Pathobiology, Texas A&M University, September 2008-August 2011
- *Associate Professor*, Department of Poultry Science, Texas A&M University, September 2008- August 2010
- *Assistant Professor*, Department of Veterinary Pathobiology, Texas A&M University, November 2002-August 2008
- *Assistant Professor*, Department of Poultry Science, Texas A&M University, November 2002- August 2008
- *Member of the Graduate Faculty*, Texas A&M University, 2003-Present
- *Member of the Intercollegiate Faculty of Virology*, Texas A&M University, 2003-2009

Administrator

- *Dean of Faculties and Associate Provost*, Texas A&M University, March 2019-September 2021
- *Executive Associate Dean of Faculties*, Texas A&M University, February 2016-February 2019
- *Interim Vice President and Associate Provost for Diversity*, October 2017-March 2018
- *Interim Dean of Faculties and Associate Provost*, Texas A&M University, July 2015-February 2016
- *Associate Dean of Faculties*, Texas A&M University, March 2012-June 2015

- *Associate Dean of Faculties/ADVANCE Administrative Fellow, Texas A&M University*
September 2011-February 2012

AWARDS AND HONORS

- *Dean of Faculties and Associate Provost Emerita, Texas A&M University, May 2024*
- *ACE Women's Progress Award in Administration, Texas A&M University, 2018*
- *Class XXXVI of the Governor's Executive Leadership Program, Fall 2017*
- *Outstanding Scientific Achievement Award, College of Veterinary Medicine & Biomedical Sciences, 2017*
- *Southeastern Conference (SEC) Academic Leadership Development Program (ALDP) Fellow, 2012-2013*
- *ADVANCE Administrative Fellow, Texas A&M University, September 2011-February 2012*
- *Fulbright Post Graduate Scholar, University of Maryland College Park, 1991-1994*
- *Pre-doctoral Fellow, Universidad de Santiago de Compostela, Spain, 1988-1989*

ADMINISTRATION EXPERIENCE

In my different administrative roles in the Office of the Dean of Faculties (ten years), I developed and managed the TAMU faculty database which houses and tracks faculty demographics and information over time, from hire through midterm evaluation, promotion and tenure, extensions to tenure clock, etc. This database is the source for a Faculty Tableau as well as a data feed into Interfolio F180 (Faculty Activity Report), which is now required for all faculty annual evaluations, and which will allow the generation of custom reports regarding faculty performance, advancement, and retention. In addition, during my term as Executive Associate Dean of Faculties, I became the PI of the Texas A&M NSF ADVANCE grant and was responsible for the institutionalization of the ADVANCE program and activities within the Office of the Dean of Faculties. As a result, implicit bias training (STRIDE) became a requirement for all individuals serving on faculty search committees. In addition, I charged the ADVANCE director with developing implicit bias training (STRIDE) for P&T committee members. This training, although not required, was well received, and participation increased overtime. Under my leadership, there was also a significant expansion of the faculty and leadership development programs which, whenever possible, always included elements of diversity, equity, and inclusion. As Dean of Faculties, I was also responsible for the implementation, university-wide, of the use of Interfolio Faculty Search for all faculty searches. The platform gives department heads/deans and committee members access to aggregate demographic data of the applicant pool, allowing them to be more intentional in the search process. Also, as Dean of Faculties and Associate Provost, I engaged in research activities related to faculty evaluation as well as the impact of COVID-19 on faculty, postdocs, and graduate students. These scholarly efforts have resulted in a peer-review publication and several conference presentations, which will soon be submitted for publication.

Dean of Faculties and Associate Provost (March 2019-September 2021)

Areas of Responsibility: work closely with the Provost and Executive Vice President and other university administrators to represent faculty needs and interest in university planning activities; elevate and diversify the quality of the faculty through development and training initiatives aimed

at improving recruitment and hiring, mentoring, faculty evaluation, teaching, and engagement practices; facilitate and observe fairness and equity in the recruitment, evaluation, and advancement of faculty and academic administrators; support of academic freedom and faculty participation in shared governance; improve faculty climate to attract exceptional faculty, increase retention, enhance creativity and productivity; professional and leadership development for faculty and administrators. Oversight of Center for Teaching Excellence (CTE), ADVANCE, and Immigration services for Faculty and Scholars (ISFS).

This was accomplished by: institutionalizing ADVANCE and its functions under the Office of the Dean of Faculties; chairing the Dean of Faculties Operations Council (DFOC) which included all the colleges associate deans responsible for faculty affairs; administrating and participating in the promotion and tenure process advising the Provost and Executive Vice President in these matters; overseeing the faculty hiring process, including salary and tenure issues; reviewing and evaluating salary and other budgetary recommendations for out-of-cycle salary increases or upon request, and advised the Provost and Executive Vice President in these matters; administrating the Dual-Career Program (annual budget of \$1.5 million) assisting dual career couples with job placement; coordinating the awarding of emeritus status and faculty retirement recognition; ensuring fair and equitable treatment of women and minority faculty members by coordinating faculty salary studies and distributing results to guard against discrepancies not based on performance; assisting in the recruitment of academic administrators by conducting and transmitting results of candidate surveys, and facilitating faculty and tenure on arrival appointments; participating in development programs for administrators; coordinating the process of preliminary and full review of academic deans and department heads; coordinating data on reports concerning TAMU faculty (university catalog, faculty database, academic analytics roster, diversity reports, post-tenure review, faculty retention...); providing active oversight to the evaluation and award process for University Distinguished Professors; communicating with academic administrators and faculty regarding tenure and promotion procedures; providing guidance and University information to deans, department heads and other university administrators; served on various University committees as a function of the position; organizing and/or coordinating workshops and seminars for faculty (tenure and promotion, search committee training); overseeing of process for submission of items for Board of Regents approval (tenure, tenure on arrival, emeritus nominations, faculty development leave); overseeing and reporting of faculty credentialing and comprehensive standards related to faculty for SACSCOC accreditation; overseeing of faculty development workshops and learning communities; overseeing of department head development workshops and learning communities; overseeing of mentoring training and development of mentoring plans; supporting professional development of faculty and graduate teaching assistants for teaching.

Major accomplishments: Completion of the TAMU faculty database; implementation of Interfolio Faculty Search, Review Tenure and Promotion, and Faculty 180 for the entire university resulting in improvement of faculty hiring and tenure and promotion processes; improved office operations; provided support to deans, department heads, faculty, and staff on issues related to hiring, promotion and tenure, grievances, university policies, faculty issues, etc.; institutionalized ADVANCE under the Office of the Dean of Faculties; supported faculty diversity and improvement of departments and campus climate and inclusion through STRIDE and STRIPE training, tenure and promotion workshops, and collaboration with Office for Diversity; revision of college/department faculty evaluation guidelines.

Executive Associate Dean of Faculties (February 2016-February 2019)

Areas of Responsibility: work closely with the Dean of Faculties and other university administrators to represent faculty needs and interest in university planning activities; elevate and diversify the quality of the faculty through development and training initiatives aimed at improving hiring, mentoring, faculty evaluation, teaching, and engagement practices; facilitate and observe fairness and equity in the recruitment, evaluation and advancement of faculty and academic administrators; support of academic freedom and faculty participation in shared governance; improve faculty climate to attract high quality faculty, increase retention, enhance creativity and productivity.

This was accomplished by: chairing the Dean of Faculties Operations Council (DFOC) which included all the colleges associate deans responsible for faculty affairs; administrating and participating in the promotion and tenure process advising the Provost and Executive Vice President in these matters; overseeing of faculty hiring process, including salary and tenure issues; review and evaluation of salary and other budgetary recommendations for out-of-cycle salary increases or upon request and advises the Provost and Executive Vice President in these matters; administration of the Dual- Career Program (annual budget of \$1.5 million) assisting dual career couples with job placement; coordinating the awarding of emeritus status and faculty retirement recognition; ensuring fair and equitable treatment of women and minority faculty members by coordinating faculty salary studies and distributing results to guard against discrepancies not based on performance; assisting in the recruitment of academic administrators by conducting and transmitting results of candidate surveys, and facilitating faculty and tenure on arrival appointments; participating in development programs for administrators; coordinating the process of preliminary and full review of academic deans and department heads; coordinating data on reports concerning TAMU faculty (university catalog, faculty database, academic analytics roster diversity reports, post-tenure review, faculty retention...); providing active oversight to the evaluation and award process for University Distinguished Professors; communicating with academic administrators and faculty regarding tenure and promotion procedures; providing guidance and University information to deans, department heads and other university administrators; serving on various University committees as a function of the position; organizing and/or coordinating workshops and seminars for faculty (tenure and promotion, search committee training); overseeing process for submission of items for Board of Regents approval (tenure, tenure on arrival, emeritus nominations, faculty development leave); overseeing and reporting faculty credentialing and comprehensive standards related to faculty for SACSCOC accreditation; primary person for intake of grievances related to Civil Rights violations against faculty (until August 2018); Title IX Deputy Coordinator-Faculty; office liaison for Open Records.

Major accomplishments: established the Dean of Faculties Operations Council (DFOC); continuous improvement of the office operations, including but not limited to tenure and promotion, emeritus and TOA submissions, faculty roster for academic analytics and university catalog, faculty hiring processes and faculty credentialing among others; provided support to deans, department heads, faculty and staff on issues related to hiring, promotion and tenure, grievances, university policies, faculty issues, etc.; improved and updated content of faculty search committee training to include the most current literature; improved and updated content of faculty workshops on tenure and promotion to include the most up to date university guidelines and processes; tracked and reported complaints as required by Title IX (until August 2018); worked with the Title IX

Stakeholder Compliance Committee and Title IX Deputy Coordinator Group on Title IX related issues that affect the University at large; supported faculty diversity and improvement of departments and campus climate and inclusion through search committee training, tenure and promotion workshops, and collaboration with the Office for Diversity and ADVANCE related activities.

Interim Vice President and Associate Provost for Diversity (October 2017-March 2018)

Areas of Responsibility: Assist the President and Provost & Executive Vice President in holding unit and unit leaders throughout the University accountable for progress in achieving diversity goals and promoting a supportive climate for diversity; monitor the University Diversity Plan; provide strategic and scholarly leadership for units and unit leaders on practices and measures that further diversity and inclusion efforts in the higher education setting; cultivate relationships with university stakeholder groups to enhance the University's mission and values around diversity and inclusion; provide administrative leadership for the Diversity Operations Committee (DOC) to ensure that all existing and planned policies, operations, procedures, and all major plans for organizational change are pursued with careful attention to their impact on our diversity goals and strategic coordination of university-wide diversity-related activities.

Major accomplishments: established regular communications with the Speaker of the Faculty Senate to address concerns related to campus climate; developed a protocol for handling Stop Hate reports; proposed the creation of a Campus Climate Response Team (supported by provost and president) to respond to Stop Hate reports which would include representatives of the Division of Human Resources and Organizational Effectiveness, Office of the Dean of Faculties, Division of Student Affairs, University Police and Office for Diversity with the objective of better communicate issues related to campus climate to all university constituencies; initiated discussion with the Office of the Dean of Faculties to identify best practices for the recruitment and retention of diverse faculty.

Interim Dean of Faculties and Associate Provost (July 2015-February 2016)

Areas of responsibility: represent faculty needs and interest in university planning activities; elevate and diversify the quality of the faculty through development and training initiatives aimed at improving hiring, mentoring, faculty evaluation, teaching, and engagement practices; facilitate and observe fairness and equity in the recruitment, evaluation, and advancement of faculty and academic administrators; support of academic freedom and faculty participation in shared governance; improve faculty climate to attract high-quality faculty, increase retention, enhance creativity and productivity.

Major accomplishments: oversaw the planning and delivered New Faculty and New Academic Leaders orientations; provided training for CAFRT and UGC members; continue providing Title IX training for faculty groups as requested; reviewed and revised a new university rule and standard administrative procedure for reporting and investigating civil rights violations; oversaw investigations and hearings by CAFRT, UGC and ACRIC committees; supported faculty diversity and improvement on department and campus climate and inclusion through search committee training, tenure and promotion workshops and participation in ADVANCE related activities.

Associate Dean of Faculties, Texas A&M University (March 2012- July 2015)

Areas of responsibility: work closely with the Dean of Faculties to advance the university's goals in research, teaching, service, and engagement, as well as the office's mission regarding faculty status, climate, and development. More specifically: administration of the area of faculty promotion (tenure and promotion processes), development (faculty development leave; workshops), and recognition (college, university, system and outside awards); organization and/or coordination of workshops and seminars for faculty, department heads and administrative staff development; collaboration with the ADVANCE Center in the organization and facilitation of workshops for development of STEM faculty and department heads; liaison between departments/colleges and the Office of the Dean of Faculties; oversight of the process for submission of items for Board of Regents approval; oversight and reporting of faculty credentialing for SACSCOC accreditation; administration of the Dual-Career Program (annual budget of \$600K); responsibility for quality assurance of the administrative matters handled by the office (hiring, tenure & promotion, awards, evaluation and appointment of deans and department heads, accreditation); reporting and oversight of investigations related to Title IX violations (sexual harassment and gender discrimination); general oversight of all non-faculty employees of the office (5 staff and 3-5 student workers).

Major accomplishments: played a major role in streamlining processes (promotion & tenure, faculty development leave, faculty hiring, TOP grants applications, faculty credentialing for SACSCOC accreditation) and developed a team, both of which have significantly improved the standing of the office among the university community and the services it provides; established good working relationships with department heads and deans and sought feedback from both groups of administrators and their administrative staff to better streamline processes; increased workshops, training sessions and development programs for administrators, faculty, and administrative staff; provided advice, guidance and support to faculty, department heads and deans in conflict resolution.

RESEARCH

As a virologist, I am interested in understanding how viruses cause disease in the host and how this knowledge can be applied to developing vaccines, therapeutic treatments, and diagnostic tests. During the past 25 years, my research has focused on viruses that affect poultry. Viral diseases are among the most important diseases affecting the poultry industry, and losses associated with them have a major impact on the US and world economies. Although biosecurity is the primary way of controlling any infectious disease in the commercial poultry industry, some viral diseases are endemic in many areas, and vaccination remains the single most valuable tool utilized in their prevention. To address important issues that affect the global poultry industry and food availability and security throughout the world, my research on Marek's disease virus (MDV), a chicken oncogenic alphaherpesvirus that causes T-cell lymphomas, has focused on better understanding the molecular mechanisms of pathogenesis. We accomplish this by studying gene function using biochemical techniques and by introducing mutations into the viral genome. The knowledge obtained from these studies is used to develop vaccines to control this critical poultry pathogen. In addition, more recently, we are investigating the use of some of these Marek's disease vaccines as viral vectors to control important diseases of poultry, like Newcastle disease, infectious bronchitis, infectious laryngotracheitis, and infectious bursal disease. Details of my research activities are provided below.

Peer Reviewed Journal Publications (Reverse Chronological Order)

1. Carter RG, Mundorff K, Risien J, Bouwma-Gearhart J, Bratsch-Prince D, Brown SA, Campbell AL, Hartman JC, Hasemann CA, Hollenbeck PJ, **Lupiani B**, McCarty OJT, McClure ID, Mealey K, Mimura C, and Romero AJ, Sztajn P and Van Egeren L. 2021. Innovation, entrepreneurship, promotion, and tenure. *Science*. 373(6561), 1312-1314. PMID: 34529484.
2. Liao Y, Fang X, Al-Mahmood M, Li Q, **Lupiani B**, Reddy SM. 2021. US3 serine/threonine protein kinase from MDV-1, MDV-2, and HVT differentially regulate viral gene expression and replication. *Microorganisms* 2021, 9(4), 785; doi.org/10.3390/microorganisms9040785. PMID: 33918706.
3. Liao Y, **Lupiani B**, Reddy SM. 2021. Manipulation of promyelocytic leukemia protein nuclear bodies by Marek's disease virus encoded Meq and US3 proteins. *Microorganisms* 2021, 9(4), 685; doi.org/10.3390/microorganisms9040685. PMID: 33810320
4. Liao Y, **Lupiani B**, Al-Mahmood M, Reddy SM. 2021. Marek's disease virus US3 protein kinase phosphorylates chicken HDAC 1 and 2 and regulates viral replication and pathogenesis. *PLoS Pathogenes* 2021 Feb 17;17(2):e1009307. doi: 10.1371/journal.ppat.1009307. PMID: 33596269.
5. Liao Y, Reddy SM, Khan OA, Sun A, **Lupiani B**. 2021. A Novel Effective and Safe Vaccine for Prevention of Marek's Disease Caused by Infection with a Very Virulent Plus (vv+) Marek's Disease Virus. *Vaccines* 2021, 9(2), 159; doi.org/10.3390/vaccines9020159. PMID: 33669421.
6. Liao Y, **Lupiani B**, Izumiya Y, Reddy SM. 2021. Marek's disease virus Meq oncoprotein interacts with chicken HDAC 1 and 2 and mediates their degradation via proteasome dependent pathway. *Scientific Reports* 2021 Jan 12;11(1):637. doi: 10.1038/s41598-020-80792-2. PMID: 33437016.
7. Liao Y, Bajwa K, Al-Mahmood M, Gimeno IM, Reddy SM, **Lupiani B**. 2020. The role of Meq-vIL8 in regulating Marek's disease virus pathogenesis. *Journal of General Virology* 2020 Nov 25. doi: 10.1099/jgv.0.001528. PMID: 33236979.
8. Liao Y, Zhuang G, Sun A, Khan OA, **Lupiani B**, Reddy SM. 2020. Marek's disease virus cluster 3 miRNAs restrict virus early cytolitic replication and pathogenesis. *Viruses* 2020, 12(11), 1317; doi.org/10.3390/v12111317. PMID: 33212952.
9. Liao Y, Sun A, Zhuang G, **Lupiani B**, Reddy SM. 2020. Deletion of LORF9 but not LORF10 attenuates Marek's disease virus pathogenesis. *Veterinary Microbiology* 2020 Dec; 251:108911. doi: 10.1016/j.vetmic.2020.108911. Epub 2020 Nov 1. PMID: 33212362.
10. Liao Y, **Lupiani B**, Bajwa K, Khan OA, Izumiya Y, Reddy SM. 2020. Role of Marek's Disease Virus (MDV)- Encoded US3 Serine/Threonine Protein Kinase in Regulating MDV Meq and Cellular CREB Phosphorylation. *Journal of Virology* 2020 Aug 17;94(17):e00892-20. doi: 10.1128/JVI.00892-20. PMID: 32581093.
11. Ferro PJ, Morrow ME, Flanagan JP, Ortego B, Chester RE, Mueller JM, **Lupiani B**. 2017. Wild Birds, a Source of Reticuloendotheliosis Virus Infection for the Endangered Attwater's Prairie-Chicken (*Tympanuchus cupido attwateri*)? *Journal of Wildlife Diseases* 53(3):586-590. PMID: 28192047.
12. Karki S, **Lupiani B**, Budke CM, Karki NPS, Rushton J, and Ivanek R. 2015. Cost-benefit analysis of avian influenza control in Nepal. *Scientific and Technical Review*, OIE 34 (3):813-827. PMID: 27044153.

13. Szonyi B, Srinath I, Esteve-Gassent M, **Lupiani B**, Ivanek R. 2015. Exploratory spatial analysis of Lyme disease in Texas -what can we learn from the reported cases? *BMC Public Health*. 2015 Sep 19;15 (1): 924. doi: 10.1186/s12889-015-2286-0. PMID: 26386670.
14. Lebarbenchon C, Pedersen JC, Sreevatsan S, Ramey AM, Dugan VG, Halpin RA, Ferro PJ, **Lupiani B**, Enomoto S, Poulson RL, Smeltzer M, Cardona CJ, Tompkins SM, Wentworth DE, Stallknecht DE and Brown JD. 2015. H7N9 influenza A virus in turkeys in Minnesota. *Journal of General Virology* 96 (Pt 2): 269-276. PMID: 25351723.
15. Wang Y, **Lupiani B**, Reddy SM, Lamont SJ, and Zhou H. 2014. RNA-seq analysis revealed novel genes and signaling pathway associated with disease resistance to avian influenza virus infection in chickens. *Poultry Science* 93 (2): 485-493. PMID: 24570473.
16. Karki S, **Lupiani B**, Budke CM, Manandhar S, and Ivanek R. 2014. Cross-Sectional Serosurvey of Avian Influenza Antibodies Presence in Domestic Ducks of Kathmandu, Nepal. *Zoonoses Public Health* 61 (6): 442-448. PMID: 24382012 469-473. PMID: 23901763.
17. **Lupiani B**, Lee LF, Kreager KS, Witter RL, and Reddy SM. 2013. Insertion of reticuloendotheliosis virus long terminal repeat into the genome of CVI988 strain of Marek's disease virus results in enhanced growth and protection. *Avian Diseases* 57 (2 Suppl): 427-431. PMID: 23901756.
18. Reddy, S.M.; Sun, A.; Khan, O.A.; Lee, L.F.; Lupiani, B. Cloning of a very virulent plus, 686 strain of Marek's disease virus as a bacterial artificial chromosome. *Avian Dis.* **2013**, 57 (Suppl. 2), 469–473.
19. Lee LF, Kreager KS, Heidari M, Zhang H, **Lupiani B**, Witter RL, and Reddy SM. 2013. Properties of a meq-deleted rmd5 Marek's disease vaccine: protection against virulent MDV challenge and induction of lymphoid organ atrophy are simultaneously attenuated by serial passage in vitro. *Avian Diseases* 57 (2 Suppl): 491-497. PMID: 23901766.
20. Sun A, Lee LF, Khan OA, Heidari M, Zhang H, **Lupiani B**, and Reddy SM. 2013. Deletion of Marek's disease virus large subunit of ribonucleotide reductase impairs virus growth in vitro and in vivo. *Avian Diseases* 57 (2 Suppl): 464-468. PMID: 23901762.
21. Lee LF, Heidari M, Sun A, Zhang H, **Lupiani B**, and Reddy SM and Fadly A. 2013. Identification and in vitro characterization of a Marek's disease virus encoded ribonucleotide reductase. *Avian Diseases* 57 (2): 178-187. PMID: 24689171.
22. Ferro PJ, Khan O, Peterson MJ, Batchuluun D, Reddy SM, and **Lupiani B**. 2012. Avian Influenza virus surveillance in hunter-harvested waterfowl, Texas coast, September 2009–January 2010. *Avian Diseases* 56 (4s1): 1006-1009. PMID: 23402127.
23. Ferro PJ, Khan O, Vuong C, Reddy SM, LaCoste L, Rollins D, and **Lupiani B**. Avian Influenza virus investigation in wild Bobwhite quail from Texas. 2012. *Avian Diseases* 56 (4s1): 858-860. PMID: 23402104.
24. Wang Y, Brahmakshatriya V, **Lupiani B**, Reddy S, Okimoto R, Li X, Chiang H, and Zhou H. 2012. Associations of chicken Mx1 polymorphism with antiviral responses in avian influenza virus infected embryos and broilers. *Poultry Science* 91 (12): 3019-3024. PMID: 23155008.
25. Wang Y, Brahmakshatriya V, **Lupiani B**, Reddy SM, Soibam B, Benham AL, Gunaratne P, Liu HC, Trakooljul N, Ing N, Okimoto R, and Zhou H. 2012. Integrated analysis of microRNA expression and mRNA transcriptome in lungs of avian influenza virus infected broilers. *BMC Genomics* Jun 22; 13:278. doi: 10.1186/1471-2164-13-278. PMID: 22726614.

26. Lee LF, Heidari M, Zhang H, **Lupiani B**, Reddy SM, and Fadly A. 2012. Cell culture attenuation eliminates rMd5ΔMeq-induced bursal and thymic atrophy and renders the mutant virus as an effective and safe vaccine against Marek's disease. *Vaccine* 30 (34): 5151-5158. PMID: 22687760.
27. Rollo SN, Ferro PJ, Peterson MJ, Ward MP, Ballard BM, and **Lupiani B**. 2012. Non-migratory mottled ducks (*Anas fulvigula*), sentinels for avian influenza surveillance? *Journal of Zoo and Wildlife Medicine* 43 (1): 174-176. PMID: 22448526.
28. Payne S, Jianhua G, Covalada L, Swafford S, Baroch J, Ferro PJ, **Lupiani B**, Heatley J, and Tizard I. 2011. Detection and characterization of a distinct bornaviruses lineage from healthy Canada geese (*Branta canadensis*). *Journal of Virology* 85 (22): 12053-12056. PMID: 21900161.
29. Wang L, Qin Z, Pantin-Jackwood M, Garcia M, **Lupiani B**, Reddy, SM Saif YM, and Lee CW. 2011. Development of DIVA (Differentiation of Infected from Vaccinated Animals) vaccines for the control of triple reassortant H3N2 influenza in turkeys. *Vaccine* 29 (45): 7966-7974. PMID: 21907751.
30. Sun F, Ferro PJ, **Lupiani B**, Kahl J, Morrow M, Flanagan SP, Estevez C, and Clavijo A. 2011. A duplex real-time PCR assay for the simultaneous detection of LTR and *env* sequences of reticuloendotheliosis virus in avian blood samples. *Journal of Veterinary Diagnostic Investigation* 23 (5): 937–941. PMID: 21908350.
31. Garrison AA, Fedynich AM, Smith AJ, Ferro PJ, Butler DA, Peterson MJ, and **Lupiani B**. 2011. Assessing lead shot ingestion in green-winged teal (*Anas crecca*) and northern shovelers (*Anas clypeata*) from the Texas mid-Gulf coast. *Journal of Wildlife Diseases* 47 (3): 784-786. PMID: 21719854.
32. Lee L.F, Zhang H, Heidari M, **Lupiani B**, and Reddy SM. 2011. Evaluation of factors affecting vaccine efficacy of recombinant Marek's disease virus lacking the Meq oncogene in chickens. *Avian Diseases* 55 (2): 172–179. PMID: 21793430.
33. King MD, Guentzel MN, Arulanandam BP, Bodour AA, Brahmakshatriya V, **Lupiani B**, and Chambers JP. 2011. Effects of bacterial microflora of the lower digestive tract of free-range waterfowl on influenza virus activation. *Applied and Environmental Microbiology* 77 (12): 4119- 4125. PMID: 21531837.
34. Ferro PJ, Budke CM, Peterson MJ, Cox, D, Roltsch E, Merendino T, Nelson M, and **Lupiani B**. 2010. Multiyear surveillance for avian influenza virus in waterfowl from wintering grounds, Texas coast, USA. *Emerging Infectious Diseases* 16 (8): 1224-1230. PMID: 20678315.
35. Brahmakshatrita V, **Lupiani B**, and Reddy SM. 2010. Characterization and evaluation of avian influenza NS1 mutant virus as a potential live and killed DIVA (differentiating between infected and vaccinated animals) vaccine for chickens. *Vaccine* 28 (12): 2388-2396. PMID: 20064474.
36. Suchodolski P, Izumiya Y, **Lupiani B**, Ajithdoss D, Lee LF, Kung H-J, and Reddy SM. 2010. Both homo and heterodimers of Marek's disease virus encoded Meq protein contribute to transformation of lymphocytes in chickens. *Virology* 399 (2): 312-321. PMID: 20137800.
37. Singh S, Briles WE, **Lupiani B**, and Collisson E. 2010. Avian influenza viral nucleocapsid and hemagglutinin proteins induce chicken CD8+ memory T lymphocytes. *Virology* 399 (2): 231-238. PMID: 20116819.

38. Lee LF, Kreager KS, Arango J, Paraguassu A, Beckman B, Zhang H, Fadly A, **Lupiani B**, and Reddy SM. 2010 Comparative evaluation of vaccine efficacy of recombinant Marek's disease virus vaccine lacking *meq* oncogene in commercial chickens. *Vaccine* 28 (5): 1294-1299. PMID: 19941987.
39. **Lupiani B** Mozisek B, Mason PW, Lamichhane C, and Reddy SM. 2010. Simultaneous detection of avian influenza virus (AIV) NP and H5 antibodies in chicken sera using a fluorescence microsphere immunoassay (FMIA). *Avian Diseases* 54 (1S): 668-672. PMID: 0521712.
40. Ferro PJ, Peterson MJ, Merendino T, Nelson M, and **Lupiani B**. 2010. Comparison of real-time RT-PCR and virus isolation for estimating prevalence of avian influenza virus in hunter-harvested wild birds at waterfowl wintering grounds along the Texas mid-Gulf Coast (2005–2006 through 2008–2009). *Avian Diseases* 54 (1S): 655-659. PMID: 20521710.
41. Wang Y, Brahmakshatriya V, Zhu H, **Lupiani B**, Reddy SM, Yoon B-J, Gunaratne PH, Kim JH, Chen R, Wang J, and Zhou H. 2009. Identification of differentially expressed miRNAs in chicken lung and trachea with avian influenza virus infection by a deep sequencing approach. *BMC Genomics* 10 (512) doi:10.1186/1471-2164-10-512. PMID: 19891781.
42. Ferro PJ, Osterstock J, Norby B, Fosgate GT, and **Lupiani B**. 2009. Evaluation of a 384-well format for high-throughput real-time reverse transcription polymerase chain reaction testing for avian influenza. *Journal of Veterinary Diagnostic Investigation* 21 (5): 679-683. PMID: 19737764.
43. King MD, Guentzel MN, Arulanandam BP, **Lupiani B**, and Chambers JP. 2009. Proteolytic bacteria in the lower digestive tract of poultry may affect avian influenza virus pathogenicity. *Poultry Science* 88 (7): 1388-1393. PMID: 19531708.
44. Brahmakshatriya V, **Lupiani B**, Brinlee JL, Cepeda M, Pillai SD, and Reddy SM. 2009. Preliminary studies for inactivation of avian influenza virus (AIV) in poultry products using electron beam (E- beam) irradiation. *Avian Pathology* 38 (3): 245-250. PMID: 19468943.
45. Ajithdoss D, Reddy SM, Suchodolski PF, Lee LF, Kung H-J, and **Lupiani B**. 2009. *In vitro* characterization of the Meq proteins of Marek's disease virus vaccine strain CVI988. *Virus Research* 142 (1-2): 57-67. PMID: 19189855.
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Patents, Disclosures, and Licensed Products

- “Recombinant turkey herpesvirus vaccines and uses thereof”. U.S. Patent & Trademark Office, patent # US 11,433,130 B2 (Inventors: SM Reddy and **B Lupiani**). Issued 09/06/2022.
- “Recombinant turkey herpesvirus vaccines and uses thereof”. U.S. Patent & Trademark Office, patent # US 10813911B2 (Inventors: SM Reddy and **B Lupiani**). Issued 10/27/2020.
- “Recombinant turkey herpesvirus vaccines and uses thereof”. U.S. Patent & Trademark Office, patent # US10537628B2 (Inventors: SM Reddy and **B Lupiani**) Issued 01-21-2020.
- “Marek’s disease virus vaccine compositions and methods of using thereof”. U.S. Patent & Trademark Office, patent # US 9060990 (Inventors: SM Reddy and **B Lupiani**). Issued 6/23/2015.
- “Marek’s disease virus vaccine”. U.S. Patent & Trademark Office, patent # US 7824690 (Inventors: SM Reddy and **B Lupiani**). Issued 11/2/2010.
- “Marek’s disease virus vaccine”. U.S. Patent & Trademark Office, patent # US 7214524 (Inventors: SM Reddy and **B Lupiani**). Issued 4/8/2007.
- Zoetis LLC (formerly Pfizer Animal Health) licensed a vaccine product derived from turkey herpesvirus to prevent two economically important diseases of chickens: Marek’s disease and infectious bursal disease (Inventors: SM Reddy and **B Lupiani**). This license has now been terminated.
- Non-exclusive USDA biologic licensing agreement with Merial for Marek’s disease vaccine. The USDA License No. 1592-001 (LN 1592-001), executed on April 13, 2013 for 10-year period). The license agreement was renewed for an additional 10-year period in 2023 and transferred to Boehringer Ingelheim. Resulting vaccine is marketed worldwide under the trademark *Prevexxion RN*, 04/13/2013 to 04/12/2033, (Inventors: SM Reddy and **B Lupiani**). (**Lupiani B**, Lee LF, Kreager KS, Witter RL, and Reddy SM. 2013. Insertion of reticuloendotheliosis virus long terminal repeat into the genome of CVI988 strain of Marek’s disease virus results in enhanced growth and protection. *Avian Diseases* 57 (2 Suppl): 427-431. PMID: 23901756.)

Invited Chapters and Review Articles (Reverse Chronological Order)

1. Liao Y, Bajwa K, **Lupiani B**, Reddy SM. 2021. Methods for the manipulation of herpesvirus genome and the application in Marek's disease virus research. *Microorganisms* 2021, 9(6), 1260; doi.org/10.3390/microorganisms9061260. PMID: 34200544.
2. Liao Y, **Lupiani B**, Reddy SM. 2021. Latest insights into the uncharacterized open reading frames encoded by unique regions of Marek's disease virus. *Viruses* 2021 May 25;13(6):974. doi: 10.3390/v13060974. PMID: 34070255
3. Lupiani B, **Liao Y**, Jin D, Izumiya Y, Reddy SM. 2019. Marek's disease virus. In: Samal KS, editor. *Avian Virology: Current Research and Future Trends*. Caister Academic Press; 2019. p. 345-364.
4. Reddy SM, Izumiya Y and **Lupiani B**. 2017. Marek's disease vaccines: Current status, and strategies for improvement and development of vector vaccines. 2017. *Veterinary Microbiology*. 206:113- 120
5. Schijns VEJC, van de Zande S, **Lupiani B**, and Reddy SM. 2013. Practical aspects of poultry vaccination (Chapter 17). In *Avian Immunology* 2nd Ed. (Chapter 20). (K.A. Schat, B. Kaspers, P. Kaiser, Ed.). Academic Press, ISBN: 9780123969651
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8. **Lupiani B**, Subramanian K, and Samal SK. 1995. Aquareoviruses. *Annual Review of Fish Diseases* 5: 175-208

Proceedings (Reverse Chronological Order)

1. Shahri B, Wilkinson H, and Lupiani B. 2022. PTIE: Reflections on University Strategic Planning & Holistic Faculty Evaluation. Submitted to: Proceedings of the 2022 Innovation and Entrepreneurship (I&E) Conference: A Seismic Shift in Promotion & Tenure. https://ir.library.oregonstate.edu/concern/conference_proceedings_or_journals/k3569c794?locale=en
2. Donaldson JP, Chowdhury M, Lupiani B, Zowam S, Larson B, Wallace W, and Wilkinson H. 2022. Conceptualizations of Teaching and Learning in Promotion and Tenure Personal Statements. In Chinn, C., Tan, E., Chan, C., & Kali, Y. (Eds.), Proceedings of the 16th International Conference of the Learning Sciences - ICLS 2022 (pp. 1824-1825). International Society of the Learning Sciences, pp 1824-1825. <https://repository.isls.org//handle/1/8592>
3. Reddy S.M. and **Lupiani B**. Neoplastic diseases of poultry: Avian leukosis, reticuloendotheliosis and Marek's disease. 2015. Published as a review paper, World Veterinary Poultry Association, Cape Town, South Africa.
4. Reddy SM, and **Lupiani B**. Marek's disease vaccines. 2015. An update on Marek's disease vaccination, diagnosis, and immunosuppression. Published paper as proceedings of the American Association of Poultry Veterinarians/AVMA, Boston

5. **Lupiani B** and Reddy SM 2005. Improved Diagnostic Tests for Avian Influenza Surveillance. Proceedings of the Institute of Food Technologists' First Annual Food Protection & Defense Research Conference. Atlanta, GA
6. **Lupiani B**, Silva RF, Lee LF and Reddy SM. 2001. Characterization of the US/TRS junction regions of different MDV isolates. Proceedings of the 6th International Symposium on Marek's Disease pp: 51-53. Montreal, Canada
7. Reddy SM, **Lupiani B**, Silva R, Lee L, and Witter R. 2001. Genetic manipulation of a very virulent strain of Marek's disease virus. Proceedings of the 6th International Symposium on Marek's Disease pp: 55-57. Montreal, Canada
8. Hunt HD, **Lupiani B** and Fadly A. 2000. Recombination between ALV-J and endogenous subgroup E viruses. Proceedings of the International Symposium on ALV-J and other Avian Retroviruses pp: 50-60. Rauschholzhausen, Germany
9. Subramanian S, **Lupiani B**, Samal SK and Hetrick FM. 1997. Molecular characterization of aquareoviruses. *In: New approaches to viral diseases of aquatic animals*, pp: 1-8. National Research Institute of Aquaculture International Workshop, Nansei, Japan
10. Hetrick FM, Samal SK, **Lupiani B**, Dopazo CP, Subramanian K and Mohanty SB. 1992. Members of the family *Reoviridae* found in aquatic animals. Proceedings of the OJI International Symposium on Salmonid Diseases pp 33-40. Hokkaido University Press, Sapporo, Japan
11. Samal SK, Subramanian K, **Lupiani B**, Mohanty SB and Hetrick FM. 1991. Characterization of structural and non-structural proteins of an aquatic rotavirus. Proceedings Second International Symposium on Viruses of Lower Vertebrates pp: 243-253. Oregon State University, Corvallis, OR

Publications submitted and pending

1. Donaldson JP, Chowdhury M, **Lupiani B**, Zowam S, Larson B, Wallace W, and Wilkinson H. Conceptualizations of Teaching and Learning in Promotion and Tenure Personal Statements. Submitted to *The Journal of Higher Education*

Invited Presentations, Keynotes, Symposia, and Colloquia

International

- AviForum Puesta 2022, Sevilla, Spain (November 10, 2022) "Actualización de los diferentes tipos de vacunas recombinantes en puesta."
- UK-Texas Bioscience Collaboration in Infectious Diseases: Old Challenges New Solutions. London, England (December 2005). "Avian influenza, research towards prevention and control."
- Facultad de Medicina Veterinaria y Zootecnia, Centro de Enseñanza, Investigación y Extension en Producción Avícola, Universidad Autónoma de México (May 2005). "Avian influenza, quandaries to animal agriculture."
- Facultad de Medicina Veterinaria y Zootecnia, Universidad Autónoma del Estado de México (May 2005). "Avian influenza, quandaries to animal agriculture."

National

- Department of Veterinary and Biomedical Sciences. College of Veterinary Medicine, University of Minnesota (October 2014). "Avian influenza and Marek's disease - Research approaches for the control of two important diseases"
- Texas A&M University Biodefense Research Seminar Series, College Station Texas (October 2010). "Ducks, avian influenza, and the Texas Coast: a winter wonderland"
- 2009 Spring Seminar series of the South Texas Center for Emerging Infectious Diseases (STCEID) University of Texas San Antonio (March 2009). "Ducks, avian influenza, and the Texas Coast: a winter wonderland"
- Institute of Food Technologists' First Annual Food Protection & Defense Research Conference Atlanta, GA (November 2005). "Improved diagnostic tests for avian influenza surveillance"
- Department of Veterinary Microbiology and Preventive Medicine, College of Veterinary Medicine, Iowa State University, Ames IA (October 2005). "Avian Influenza, where we are and where we are going"
- Southeastern Poultry Research Laboratory, ARS, USDA, Athens, GA (December 2003). "Use of Avian Leukosis Virus Molecular Clones to Study Pathogenesis and Gene Function"
- Department of Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX (April 2002). "Role of the Viral Envelope and Regulatory Elements in the Pathogenesis of Subgroup J Avian leukosis Virus (ALV-J)"
- Southeastern Poultry Research Laboratory, ARS, USDA, Athens, GA (January 2002). "Understanding the role of subgroup J avian leukosis virus (ALV-J) LTR and envelope glycoprotein in oncogenesis"
- Department of Biochemistry, Microbiology and Molecular Biology, University of Maine, Orono, Maine (February 1998). "Genetic and biochemical analysis of aquareoviruses"
- Avian Disease and Oncology Laboratory, Agricultural Research Service (USDA/ARS) East Lansing Michigan (13 February 1997). "Genetic and biochemical analysis of aquareoviruses"
- National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, Maryland (April 1994). "Genetic and biochemical analysis of aquareoviruses"

Abstracts, Oral and Poster Presentations (Reverse Chronological Order)

1. **Lupiani, B**, Sun A, Khan O, AL-Mahmood M, and Reddy SM. 2024. Evaluation of MDV-1 Vector Vaccines for Protection against IBD in Chickens. 14th International Symposium on Marek's Disease and Avian Herpesviruses. July 2024, Saint Louis, Missouri
2. Reddy, SM., Liao Y, Cai J, and **Lupiani B**. 2024. Role of Marek's Disease Virus (MDV)-Encoded US3 Serine/Threonine Protein Kinase in Replication and Pathogenesis. 14th International Symposium on Marek's Disease and Avian Herpesviruses. July 2024, Saint Louis, Missouri
3. AL-Mahmood M, **Lupiani, B** Khan O, and Reddy SM. 2024. Development and Characterization of HVT Vector Vaccines to Control ND and IBD. 2024 AAAP Annual Meeting. July 2024, Saint Louis, Missouri
4. Donaldson JP, Chowdhury M, Zowam S, **Lupiani B**, Wilkinson H, Larson B, and Wallace W. 2022. Conceptualizations of teaching and learning in impact statements for tenure and

- promotion. Proceedings of the 16th International Conference of the Learning Sciences. June 5-10, 2022, Hiroshima, Japan. pp1824-1825
5. Shahri B, **Lupiani B**, and Wilkinson H. 2022. PTIE: Reflections on University Strategic Planning & Holistic Faculty Evaluation. Innovation and Entrepreneurship (I&E) Conference: A Seismic Shift in Promotion & Tenure. July 25 to 27, 2022. Oregon
 6. Liao Y, Reddy SM, Khan OA, Sun A, and **Lupiani B**. A Novel Effective and Safe Vaccine for Prevention of Marek's Disease Caused by Infection with a Very Virulent Plus (vv+) Marek's Disease Virus. International Herpesvirus Workshop (2021), oral presentation. August 2-6, 2021.
 7. Liao Y, **Lupiani B**, Al-Mahmood M, and Reddy SM. Marek's disease virus U₅3 protein kinase phosphorylates chicken HDAC 1 and 2 and regulates viral replication and pathogenesis. American Society for Virology (2021), oral presentation. July 19-23, 2021. (Planned)
 8. Liao Y, **Lupiani B**, Al-Mahmood M, and Reddy SM. Marek's disease virus U₅3 protein kinase phosphorylates chicken HDAC1 and 2 to regulate viral replication. 13th International Symposium on Marek's Disease and Avian Herpesviruses, oral presentation. June 1-3, 2021.
 9. Liao Y, Fang X, Al-Mahmood M, Li, Q **Lupiani B**, and Reddy SM. U₅3 serine/threonine protein kinase from MDV-1, MDV-2, and HVT differentially regulate viral replication and pathogenesis. 13th International Symposium on Marek's Disease and Avian Herpesviruses, oral presentation. June 1-3, 2021.
 10. Liao Y, **Lupiani B**, Bajwa K, Izumiya Y and Reddy SM. Role of Marek's disease virus encoded U₅3 protein kinase in regulating chicken HDAC phosphorylation and virus replication. American Society for Virology (2020). Abstract Accepted as Poster Presentation (meeting canceled due to COVID-19 pandemic).
 11. Liao Y, Izumiya Y, Bajwa K **Lupiani B**, and Reddy SM. Role of Marek's disease virus encoded U₅3 serine/threonine protein kinase in regulating MDV Meq and cellular CREB phosphorylation. American Society for Virology (2019), oral presentation. July 20-24, 2019.
 12. Liao Y, Bajwa K, Khan OA, Al-Mahmood M, Izumiya Y, **Lupiani B** and Reddy SM. Role of Marek's disease virus U₅3 protein kinase in phosphorylation of MDV Meq and cellular CREB protein. 2019 Spring Research Symposium, poster presentation. January 17, 2019.
 13. Liao Y, Bajwa K, Khan OA, Al-Mahmood M, Izumiya Y, **Lupiani B** and Reddy SM. Role of Marek's disease virus (MDV) U₅3 protein kinase in phosphorylation of MDV Meq and cellular CREB protein. 12th International Symposium on Marek's Disease and Avian Herpesviruses, oral presentation. July 31, 2018.
 14. **Lupiani, B**, and Reddy, SM. Novel recombinant serotype 1 Marek's disease vaccine. 11th International Symposium on Marek's Disease and Avian Herpesviruses, Tours, France. July 2016
 15. Bajwa K*, Sun A, Zhuang G, Khan O, Izumiya Y, **Lupiani B**, Reddy SM. Marek's disease virus encoded, Meq-vIL8, RLORF4-vIL8 and RLORF5-vIL8 splice variants are not essential for in vitro replication. 11th International Symposium on Marek's Disease and Avian Herpesviruses, Tours, France. July 2016
 16. Sun A, Zhuang G, Bajwa K*, Khan OA, **Lupiani B**, Reddy SM. Marek's Disease Virus encoded LORF9 but not LORF10 is involved in pathogenesis. 11th International Symposium on Marek's Disease and Avian Herpesviruses, Tours, France. July 2016

17. Zhuang G, Sun A, Khan OA, **Lupiani B**, Reddy SM. Marek's disease virus cluster 3 microRNAs regulates early cytolytic infection leading to reduced pathogenesis. 11th International Symposium on Marek's Disease and Avian Herpesviruses, Tours, France. July 2016
18. Khan OA, Sun A, **Lupiani B**, Reddy SM. Protection efficacy of recombinant Marek's Disease virus (MDV-1) vector vaccine against infectious bursal disease virus in SPF chickens. 11th International Symposium on Marek's Disease and Avian Herpesviruses, Tours, France. July 2016
19. **Lupiani B**, Sun, A, Khan, OA, Zhuang, G and Reddy, SM. Improving the safety and efficacy of Marek's disease candidate vaccines. American Association of Avian Pathologists Conference (AVMA/AAAP), Boston. July 2015
20. Reddy SM, Khan OA, Sun A, Zhuang G, Lupiani B. Protection efficacy of turkey herpesvirus vector vaccines against challenge with infectious bursal disease virus. 10th International Symposium on Marek's Disease and Avian Herpesviruses, East Lansing, Michigan July 2014
21. Bajwa K*, Wu Y, Sun A, **Lupiani B**, Reddy SM, Izumiya Y. Marek's disease virus encoded UL55 gene is not essential for its pathogenesis in vitro. 10th International Symposium on Marek's Disease and Avian Herpesviruses, East Lansing, Michigan July 2014
22. Sun A, Khan OA, Zhuang G, **Lupiani B**, Reddy SM. Double deletion Marek's disease virus as a potential vaccine candidate. 10th International Symposium on Marek's Disease and Avian Herpesviruses, East Lansing, Michigan July 2014
23. Zhuang G, Sun A, Izumiya Y, Reddy SM, **Lupiani B**. The role of MDV1-MIR-M8-M10 in the very virulent plus (vv+), 686 strain of Marek's disease virus. 10th International Symposium on Marek's Disease and Avian Herpesviruses, East Lansing, Michigan July 2014
24. Wang Y, Huefner, **Lupiani B**, Reddy SM, Lamont SJ, Wang, H. Chen, R, Zhou H. System Biology Analysis of Innate Resistance to Avian Influenza Virus Infection in Two Genetically Distinct Chicken Inbred Lines. Plant & Animal Genome XXII, San Diego, CA. January 2014
25. Karki S, **Lupiani B**, Budke C, and Ivanek R. Cross-sectional serosurvey and risk factors of avian influenza antibody carriage in ducks of Kathmandu, Nepal. CRWAD, Chicago IL. December 2013
26. **Lupiani B**, Sun A, Khan OA, and Reddy SM. Generation of a bacterial artificial chromosome of CVRM strain to express VP2 gene of infectious bursal disease virus. American Association of Avian Pathologists Conference (AVMA/AAAP). Chicago, IL. July 2013
27. Reddy SM, Khan OA, Sun A, and **Lupiani B**. Expression of infectious bursal disease VP2 in turkey herpesvirus. American Association of Avian Pathologists Conference (AVMA/AAAP). Chicago, IL. July 2013
28. Wang Y, **Lupiani B**, Reddy SM, Wang,H, Chen R, Lamont SJ, and Zhou H. Lung Transcriptome following Avian Influenza Virus Infection in Two Genetically Distinct Chicken Inbred Lines using RNA-seq. The 24th CDB Meeting: Genomics and Epigenetics with Deep Sequencing. Kobe, Japan. June 2013
29. Echevarría M**, Ferro P, Voung C*, Metz K, Hogan M and **Lupiani B**. The investigation of the simport matrix-chaperones for avian influenza sample storage and transportation. Experimental Biology, Boston, Massachusetts, April 2013
30. Echevarría M**, Ferro P, Voung C*, Metz K, Hogan M and **Lupiani B**. The investigation of the simport matrix-chaperones for avian influenza sample storage and transportation. 33rd

Puerto Rico Interdisciplinary Scientific Meeting; 48th Junior Technical Meeting. Caguas, Puerto Rico. March 2013

31. Wang Y, Li J, Li Q, Hu X, Li N, Hu S, Brahmashatriya V, **Lupiani B**, Reddy SM, Lamont SJ, and Zhou H. Effects of avian influenza virus infection on the transcriptome and the DNA methylome in two genetically distinct chicken lines using next generation sequencing. Plant & Animal Genome XXI. San Diego, CA January 2013. P0657
32. Ivanek R, Zhang S, Szonyi B, Srinath I, Park S-S, Ferro PJ, **Lupiani B**, Peterson MJ, Huang J, Carroll RJ. Carriage probability of avian influenza viruses in wild waterfowl influenced by host and environmental factors. CRWAD, Chicago IL, December 2012
33. Echevarría M**, Ferro P, Voung C, Metz K, Hogan M, and **Lupiani B**. The investigation of the simport matrix-chaperones for avian influenza sample storage and transportation. Annual Biomedical Research Symposium For Minority Students San José, CA, November 2012
34. Wang Y, Brahmakshatriya V, **Lupiani B**, Reddy SM, Lamont SJ, and Zhou H. Differentially expressed microRNAs associated with avian influenza virus infection in two genetically distinct chicken lines. 12th Avian International Immunology Group meeting, Edinburgh, Scotland 2012.
35. Ferro PJ, Khan OA, Vuong C, Reddy SM, LaCoste L, Rollins D, and **Lupiani B**. Virus surveillance in bobwhite quails from the Rolling Plains of Texas and Oklahoma, USA. American Association of Avian Pathologists Conference (AVMA/AAAP). San Diego, CA August 2012
36. **Lupiani B**, Lee LF, Sun A, Witter RL, and Reddy SM. Insertion of reticuloendotheliosis virus (REV) long terminal repeat (LTR
37.) into the genome of CVI988 strain of Marek's disease virus results in enhanced growth and protection. 9th International Meeting on Marek's Disease and Avian Herpesviruses. Berlin, Germany June 2012
38. Sun A, **Lupiani B**, Lee LF, and Reddy SM. Cloning of a very virulent plus, 686 strain of Marek's disease virus as a bacterial artificial chromosome. 9th International Meeting on Marek's Disease and Avian Herpesviruses. Berlin, Germany June 2012
39. Lee LF, Kreager K, Heidari M, Zhang H, **Lupiani B**, Reddy SM, and Fadly A. Pathogenesis and protective efficacy of attenuated Meq null rMd5 virus in maternal antibody negative and commercial chickens. 9th International Meeting on Marek's Disease and Avian Herpesviruses. Berlin, Germany June 2012
40. Vuong C*, Khan O, Heidner H, Reddy SM, and **Lupiani B**. Evaluation of a universal avian influenza vaccine: pairing influenza M2e peptide with Sindbis virus. ASM Texas Branch Annual Spring Conference, American Society of Microbiology (ASM). March 2012
41. Lolley BN, Carr B, Villarreal SM, Fedynich AM, Smith A, Ferro PJ, Peterson MJ, Butler DA, and **Lupiani B**. Gizzard helminths of northern shoveler (*Anas clypeata*) and green-winged teal (*Anas carolinensis*). Southwestern Association of Parasitologists 45th Annual Meeting. Lake Texoma, OK April 2012
42. Ferro PJ, Khan OA, Vuong C, Reddy SM, LaCroste L, Rollins D, and **Lupiani B**. Avian influenza virus surveillance in bobwhite quail populations at the Rolling Plains Quail Research Ranch (RPQRR) Fisher County, Texas, USA. 8th International Symposium on Avian Influenza, Royal Holloway, UK April 2012

43. Ferro PJ, Khan OA, Peterson MJ, Batchuluun D, Reddy SM, and **Lupiani B**. Avian influenza surveillance in hunter-harvested waterfowl, Texas Coast September 2009-January 2010. 8th International Symposium on Avian Influenza, Royal Holloway, UK April 2012
44. Ajithdoss D*, Reddy SM, and **Lupiani B**. The DNA binding domain of Meq, a Marek's disease virus oncoprotein, plays a major role in the transformation ability of the virus. The American College of Veterinary Pathologists 62nd Annual Meeting. Nashville, TN, December 2011.
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46. **Lupiani B**, Ferro PJ*, Khan O, Budke CM, Peterson MJ, Willems D**, Roltsch E*, Merendino T, and Nelson M. Multiyear surveillance of avian influenza in wild waterfowl on the Texas Coast. American Association of Avian Pathologists Conference (AVMA/AAAP). St. Louis, MO, July 2011
47. Reddy SM, Sun A, Khan O, Lee LF, and **Lupiani B**. Marek's disease virus encoded Meq oncoprotein plays an important role in T-cell transformation. American Association of Avian Pathologists Conference (AVMA/AAAP). St. Louis, MO, July 2011
48. Lolley BN*, Villarreal SM*, Fedynich AM, Smith A, Ferro PJ, Peterson MJ, Butler DA, and **Lupiani B**. Analysis of helminths in Northern shoveler (*Anas clypeata*) gizzards. 44th Annual Meeting Southwestern Association of Parasitologist. Lake Texoma, OK, April 2011.
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50. Zhang S, Srinath I, Park S-S, Ferro PJ*, **Lupiani B**, Peterson MJ, and Ivanek R. Modeling meteorological and environmental factors influencing the carriage probability of avian influenza viruses in wild birds. NIMBioS Investigative Workshop: Mathematical modeling of Wildlife and Viral Zoonoses, Knoxville, TN, November 2010.
51. **Lupiani B**, Ajithdoss D*, Lee LF, and Reddy SM The transactivation domain of Marek's disease virus (MDV) Meq oncoprotein does not affect tumor incidence but plays a role in tumor phenotype. 5th International Workshop on the Molecular Pathogenesis of Marek's Disease Virus and 1st Symposium on Avian Herpesviruses. Athens, GA, October 2010
52. Lee LF, Sun A, Silva R, Heidari M, **Lupiani B**, and Reddy SM. Marek's disease virus encoded ribonucleotide reductase large subunit in not essential for in vitro virus replication. 5th International Workshop on the Molecular Pathogenesis of Marek's Disease Virus and 1st Symposium on Avian Herpesviruses. Athens, GA, October 2010
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- avian influenza virus infected chicken lung. *Plant & Animal Genome XVIII*. p 528. San Diego, CA January 2010
55. Ferro PJ*, C., Davis T, Donis RO, Merendino T, Peterson MJ, Nelson M, and **Lupiani B**. Phylogenetic analysis of the nonstructural (NS) gene of avian influenza viruses isolated from hunter-harvested waterfowl, Texas coast. International Wildlife Disease Association Conference. Blaine, WA. August 2009
 56. Fedynich AM, Garrison DA*, Smith AJ, Ferro PJ, Butler D, Peterson MJ, and Lupiani B. Assessing lead shot ingestion in green-winged teal and northern shovelers. International Wildlife Disease Association Conference. Blaine, WA. August 2009
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86. Lupiani B, Pandiri AR, Mays JK, Conklin KF, Silva RF, Reed W, and Fadly A. Pathogenicity of a molecular clone of a field strain of subgroup J avian leukosis virus. American Veterinary Medical Association (AVMA)/American Association of Avian Pathologists (AAAP)/World Veterinary Poultry Association (WVPA) Annual Meeting. Denver, CO. 2003
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90. Silva RF, Lupiani B, and Reddy SM. Role of 1.8 Kb mRNA family of transcripts in Marek's disease virus Pathogenesis. American Veterinary Medical Association (AVMA)/American Association of Avian Pathologists (AAAP) Annual Meeting. Nashville, TN. 2002
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101. Lupiani B, Raina AK, and Adams JR. Structure and molecular characterization of a novel virus isolated from the corn earworm. BARC Poster Day. Beltsville, MD. 1996
102. Samal SK, Lupiani B, and Subramanian K. Expression and characterization of aquareovirus proteins. Fifth International Symposium on Double-Stranded RNA Viruses. Jerba, Tunisia. 1995
103. Samal SK, Subramanian K, and Lupiani B. Structure and function of aquareovirus genes. Third International Symposium on Viruses of Lower Vertebrates. Jouy-en-Josas, France. 1995
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106. Subramanian K, Lupiani B, Samal SK, and Hetrick FM. Gene probes for the identification of aquareoviruses. International Congress on Quality Veterinary Services for the 21st Century. Kuala Lumpur, Singapore. 1994
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125. Alcorn S, Roberson BS, Baya A, Lupiani B, Lukacovic R, Pier L, and May E. The effect of pollutants in the Chesapeake Bay on the immune response of brown bullhead to five known bacterial fish pathogens- a year long study. Eastern Fish Health Workshop. Martingsbourg, West Virginia, USA. 1991
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128. Samal SK, Subramanian K, Lupiani B, McPhillips TH, and Hetrick FM. Molecular characterization of rotavirus-like viruses isolated from aquatic animals. 3rd International Symposium of Double-stranded RNA viruses. Kona Surf Resort, Hawaii, USA. 1990
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140. Lupiani B, Dopazo CP, Ledo A, Barja JL, Hetrick FM, and Toranzo AE. A new syndrome of suspected viral etiology in cultured turbot, *Scophthalmus maximus* L. FHS/AFS International Fish Health Conference, Vancouver, British Columbia, Canada. 1988
141. Ledo A Dopazo CP, Lupiani B, Barja JL, and Toranzo AE. Incidence of the infectious pancreatic necrosis virus (IPNV) in Galicia. II National Aquaculture Conference. Santiago de Compostela, Spain. 1987
142. Dopazo CP, Ledo A, Lupiani B, and Barja JL. Preliminary data on the prevalence of fish viruses in North West of Spain. 3rd International Conference of EAAP. Bergen, Norway. 1987

Non-Refereed Publications

Newsletters and Featured Articles

1. “Actualización de los diferentes tipos de vacunas recombinantes”. April 2023. Revista aviNews España 120-128.
2. “Current Trends in Avian Influenza Diagnosis”. AICAP Newsletter, March 2009
3. “Ducks, avian influenza, and the Texas Coast: a winter wonderland”. AICAP Newsletter, October 2008
4. “Which Chicken is Stricken?” ADVANCE (Texas A&M University) Featured article on avian influenza vaccine development (By Rusty Cawley)

Research Grants

Funded

- Tumor-educated platelets: a novel minimally invasive liquid biopsy for early cancer diagnosis. (Lupiani PI). \$14,999. 03/01/2024-12/31/2024. AKC Canine Health Foundation
- Surveillance of influenza viruses in feral swine and wild mammalian populations from Texas. (Lupiani PI, Cook PI). \$10,000. 05/30/23-05/30/24. VTPB: Team Building Grant

Submitted grants

- Novel viral vector vaccines to control consequential diseases in chickens. Advancing Discovery to Market (ADM)/VPR, Texas A&M University. (Lupiani PI, Reddy, co-PI) \$500,000. 03/28/2024. Advanced to Phase 2, full proposal submission.

Past Grants

- Use of HVT vector vaccines to protect against important respiratory and immunosuppressive diseases of poultry (Integrated Project: A Novel, Translational, Multidisciplinary Approach to Control Poultry Respiratory Diseases in the United States) USDA, NIFA/AFRI. 04/15-03/20 TAMU total \$250,000 (Lupiani, PI Texas A&M Project, Co-PI Integrated Project)
- Oncogenic pathways of Marek's disease virus. Dual purpose dual benefit: Research in biomedicine and agriculture using agriculturally important domestic species. USDA/NIH. 04/14- 3/19. (Total grant amount \$1,642,857; TAMU total \$777,838) (Lupiani Co-I)
- Improved Herpesvirus of Turkey (HVT) Vector Vaccine to Control Infectious Bursal Disease (IBD) in Chickens. USDA, Formula Health. 10/13-09/15. \$40,000 (Lupiani PI)
- The Matrix-Chaperone- ambient temperature biospecimen collection, transport & banking for simplified animal disease screening" Phase II, FAZD Center/DHS. 7/13-12/14 \$87,376 (Lupiani CoPI)
- Improving the safety and efficacy of Marek's disease virus vaccine candidates expressing the Meq protein from CVI988 vaccine strain. USDA, NIFA/AFRI. 01/10-01/13. \$375,000. Non-cost extension to 1/15 (Lupiani CoPI)
- The Matrix-Chaperone: ambient temperature biospecimen collection, transport & banking for simplified animal disease screening. Department of Homeland Security. 10/11-4/13. \$349,238 (Lupiani PI)
- Evaluation of Next Generation Sequencing for identification of genetic variation and mixed infections of influenza viruses. AgriLife Research. 09/11-08/13. \$20,231 (PI)
- Evaluation of serotype 1 Marek's disease virus (MDV) as vector vaccine to control infectious bursal disease (IBD) in chickens. USDA, Formula Health. 10/12-09/13. \$19,000 (Lupiani PI)
- Operation Idiopathic Decline: Detection of viral pathogens in Bobwhite quail populations. Rolling Planes Quail Research Ranch (RPQRR) Board. 7/11-6/14. \$205,162 (Lupiani PI)
- Improving diagnostic methods for Lyme disease, and epidemiology of human and animal infections in TX. Texas AgriLife Research/ Texas Veterinary Medical Diagnostic Laboratory Seed Grant. 9/11-8/13. \$110,000 (PI)
- Evaluation of serotype 1 Marek's disease virus (MDV) as vector vaccine to control infectious bursal disease (IBD) in chickens. USDA, Formula Health. 02/12-09/12. \$20,000 (Lupiani PI)
- Development of luminex and ELISA based immunoassay for the subtyping of sera from avian influenza (AI) infected chickens and turkeys. USDA, NIFA/AFRI Avian influenza CAP2. \$217,839 (Lupiani PI)
- Generation of a reverse genetics system for viral hemorrhagic septicemia virus (VHSV), a newly emerging fish pathogen. USDA, Formula Health. 10/09-09/11. \$42,065 (PI)

- Regulatory mechanisms of chicken microRNA in avian influenza virus replication. USDA, Formula Health. 10/09-09/11. \$42,065 (Lupiani Co-PI)
- Development of a Sindbis virus based universal vaccine for influenza A virus. UTSA Seed Grant. 12/10-06/11. \$30,000 (Lupiani Co-PI)
- Effect of meteorological and environmental factors on the probability of avian influenza viruses (AIV) carriage by wild birds. DHS, FAZD. 2/10-1/11. 59,640 (Lupiani Co-PI)
- Develop improved H5 (Asian isolates) fluorescent microsphere-based multiplex diagnostics for chickens and turkeys. DHS, FAZD. 04/10-03/11. \$147,000 (Lupiani PI)
- Detection, identification, and characterization of AIVs isolated from wild waterfowl along the Texas Gulf Coast. USDA, NIFA/AFRI Avian influenza CAP2. 2008-2009. \$65,400 (Lupiani PI)
- Enhancing AI vaccine efficacy using toll-like receptor ligands for rapid induction of immune response. USDA, NIFA/AFRI Avian influenza CAP2. 2008-2009. \$59,900 (Lupiani Co-PI)
- Development of highly sensitive and specific immunoassays for the detection and monitoring of AI. Prevention and control of avian influenza in the U.S. USDA, NIFA/AFRI Avian influenza CAP. 2005-2008. \$130,000 (Lupiani PI)
- Avian Influenza Surveillance in Hunter-Harvested Waterfowl from the Gulf Coast of Texas. USDA, NIFA/AFRI Avian influenza CAP. 2005-2008. \$78,000 (Lupiani Co-PI)
- Evaluation of E-beam pasteurization for inactivation of avian influenza virus in chicken meat and egg products. USDA, NIFA/AFRI Avian influenza CAP. 2007-2008. \$38,700 (Lupiani Co-PI)
- Novel vector vaccines to control avian influenza. USDA, NIFA/AFRI Avian influenza CAP. 2005- 2006 \$60,000 (Lupiani Co-PI)
- Role of the hemagglutinin protein (HA) in the pathogenesis of a moderately pathogenic H5N3 avian influenza virus. USDA, Formula Health. 2007-2009. \$50,000 (Lupiani PI)
- Characterization of chicken microRNA and their regulatory roles in the pathogenesis of H5N3 avian influenza virus. USDA, Formula Health. 2007-2009. \$50,000 (Lupiani Co-PI)
- Maximizing the chicken memory CD8+ responses to AIV. USDA, NRI, CSREES. 2004-2008. \$320,000 (Lupiani Co-PI)
- Biochemical and biological characterization of the Meq protein from CVI988, a Marek's disease virus serotype 1 vaccine. USDA, NRI, CSREES. 2004-2008. \$320,000 (Lupiani Co-PI)
- In vitro and In vivo characterization of the Meq protein of Marek's disease virus (MDV) using a retrovirus expression system. USDA, Formula Health. 2005-2007. \$50,000 (Lupiani PI)
- The role of chicken T lymphocytes in protective immunity to avian influenza virus. USDA, Formula Health. 2005-2007. \$50,000 (Lupiani Co-PI)
- Cloning and characterization of the cellular receptor for avian leukosis virus subtype J. USDA, NRI, CSREES. 2004-2007. \$250,000 (Lupiani Co-PI)
- Development of diagnostic tests for the detection of avian influenza. DHS, FAZD. 2004-2007. \$330,000 (Lupiani PI)

- Development of a sensitive and serotype specific lateral-flow immunoassay for the detection of infectious bronchitis virus antigen. US Poultry and Egg Association. 2003-2004. \$56,000 (Lupiani Co-PI)

TEACHING & MENTORING

Teaching Areas: Diseases of Poultry and Virology

- *Courses Taught*

Spring 2024

- *Great Diseases of the World (VTPB 221)*
- *Special Topics: Biomedical Virology (VTMI 689)*
- *Biomedical Virology (VTPB 438)*
- *Biomedical Virology-H (VTPB 438)*

Fall 2023

- *Great Diseases of the World (VTPB 221)*
- *Special Topics: Current Molecular Approaches in Biomedical Sciences (VTMI 689)*
- *BIMS rotation student*

Spring 2023

- *Great Diseases of the World (VTPB 221)*
- *Special Topics: Biomedical Virology (VTMI 689)*

Fall 2022

- *Molecular Biology of Viruses (VTMI 663)*

Past

- *Diseases of Poultry (VTPB 334)* (Labs and some lectures)
- *Diseases of Poultry (POSC 634)* (review paper and grant proposal writing)
- *Viral Vectors and Gene Therapy (VTMI 665)* (course coordinator)

Guest Lectures

- *Viral Pathogenesis (VTMI 647)* (2 lectures on retroviruses every time it was offered)
- *Molecular Virology (VTMI 663)* (2 lectures on influenza virus, every time it was offered)
- *Microbiology (VTPB 911)* (2-3 virology laboratories for veterinary students, annually)

- *Courses Developed*

Fall 2022

- *Biomedical Virology (VTPB 438): Honors course*. During the Spring semester, the course/section was transferred to Zhilong Yang after I was asked to take over VTPB 221, Great Diseases of the World.
- *Special Topics in Biomedical Virology (VTMI 691)*. I worked with Zhilong Yang and Tibor Farkas in developing a graduate-level Biomedical Virology course for students in the non-thesis option (NTO) master's program and other graduate students without virology/microbiology background. This course is stacked with VTPB 438 and is taught by the three of us during the spring semester.

Graduate Research Supervision/Mentoring

Name	Degree Earned	Institution	Role	Dates
Dharani Ajithdoss	Ph.D.	POSC, Texas A&M	Chair	F-03/S-09
Karla Turbyfill	M.S. (did not complete)	POSC, Texas A&M	Chair	S-04/S-05
Vinayak Brahmakshatriya	Ph.D.	POSC, Texas A&M	Co-chair	F-04/S-09
Shailbala Singh	Ph.D.	VTPB, Texas A&M	Co-chair	F-04/F-09
Blayne Mozisek	DVM/Ph.D. (did not complete)	VTPB, Texas A&M	Chair	F-06/S-08
Pamela Ferro	Ph.D.	VTPB, Texas A&M	Co-chair	F-06/F-10
Christine Vuong	M.S.	BIMS, Texas A&M	Chair	F-10/S-12
Alejandra Heredia	M.S.	BIMS, Texas A&M	Chair	F-14/S-16
Kanika Bajwa	Ph.D.	VTPB, Texas A&M	Co-chair	F13-F20
Yifei Liao	Ph.D.	VTPB, Texas A&M	Co-chair	F-15/S-21

Postdoctoral Research Associates

Name	Degree	Institution	Mentoring Role	Dates
Jonan P. Donaldson	Ph.D.	Texas A&M	Co-Mentor	2020-Present
Shahri Bahman	Ph.D.	Texas A&M	Co-Mentor	2020-Present
Pamela J. Ferro	Ph.D.	Texas A&M	Advisor	2-2011/3-2111
Pamela J. Ferro	Ph.D.	Texas A&M	Advisor	9-2011/2012
Owais Khan	B.V.Sc., MS	Texas A&M	Co-Advisor	9-2010/Present
Guoqing Zhuang	Ph.D.	Texas A&M	Co-Advisor	2012-Present

Visiting Scientists

- Markus King, Assistant Professor, ORISE Federal Service Academies Summer Research Team fellow, Summer 2014
- Batchuluun Damdinjav, Virologist, State Central Laboratory, Mongolia, November 2010-January 2011
- Edu B Suarez, Associate Professor, University of Puerto Rico Ponce, Summer 2007

Other Mentoring

Name	Institution	Degree	Mentoring Role	Dates
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Adriana Lee	Genetics, Texas A&M	Rotation, Ph.D. Student	Mentor	9-05/12-05
Mooseung Lee	Genetics, Texas A&M	Rotation, Ph.D. Student	Mentor	1-06/5-06
Dayna Cox	BIMS, Texas A&M	Undergraduate Research	Mentor	8-06/5-07
Liliana Falcon	BIOCH, Texas A&M	Undergraduate Research	Mentor	Summer 06
Georgina Dobek	Texas A&M	Summer Research, DVM	Mentor	Summer 06
Doug Watson	UC Berkeley	DHS Fellow, Ph.D. Student	Mentor	Summer 06
Noried de Jesus Vazquez	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Mentor	Summer 07
Casey Gilbreath	BIMS, Texas A&M	Undergraduate Research	Mentor	Spring 07
Paulette Velez	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Mentor	Summer 08
Joanie Gonzalez	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Mentor	Summer 08
Emily Leon	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Mentor	Summer 09
Jose Martinez	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Mentor	Summer 09
Christine Vuong	BIMS, Texas A&M	Research Student	Mentor	Summer 10
Lilliana Muñoz	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Advisor	Summer 10
Geraldine Vargas	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Advisor	Summer 10
Martha Echevarria	U. of Puerto Rico, Ponce	DHS Intern, Undergraduate Student	Advisor	Summer 2012

Presentations made by students (excluding published abstracts)

Graduate students

1. Vuong C.*, Khan O., Heidner H., Reddy S.M. and Lupiani B. Evaluation of Sindbis-M2e virus

vector as a universal influenza A vaccine. Graduate Student Association Research Symposium, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University. April 2012

2. Vuong C.*, Khan O., Heidner H., Reddy S.M. and Lupiani B. Evaluation of a universal avian influenza vaccine: pairing influenza M2e peptide with Sindbis virus Student Research Week, Texas A&M University. March 2012
3. Vuong C.*, Ferro P.J.*, Willems D.**, Reddy S.M. and **Lupiani B.** Genetic classification of Newcastle disease virus (NDV) isolated from wild waterfowl on the Texas Gulf. College of Veterinary Medicine, Texas A&M University, Graduate Student Association Research Symposium. March 2011
4. Vuong C.*, Ferro P.J.****, Willems D.**, Reddy S.M. and **Lupiani B.** Genetic classification of Newcastle disease virus (NDV) isolated from wild waterfowl on the Texas Gulf. Student Research Week, Texas A&M University. April 2011
5. Ferro P.J.*, Peterson M. and **B. Lupiani.** "Multiyear surveillance of avian influenza in hunter-harvested waterfowl, Texas Gulf Coast". Student Research Week/Ecological Integration Symposium Taxonomy, Texas A&M University. March, 2010
6. Ferro P.J.*, Reddy S.M. and **B. Lupiani.** Subtyping of chicken sera using a fluorescence microsphere based immunoassay. 5th Annual AICAP Meeting. Minneapolis, MN. June 2009
7. Ferro P.J.* and **B. Lupiani.** Surveillance for avian influenza in hunter-harvested waterfowl on the Texas Gulf coast, a four-year study. 5th Annual AICAP Meeting. Minneapolis, MN. June 2009
8. Ferro P.J.*, Merendino T., Cox D.**, Peterson M.J., Nelson M., Hailey D., Kreigel K., Butler D., **Lupiani B.** Three years of surveillance for avian influenza in hunter-harvested waterfowl on the Texas Gulf Coast, what have we learned?. Student Research Week, Texas A&M University. April 2009
9. Ferro, P.J.* , El-Attrache J., Fang X., Merendino, T., Peterson M.J. and **Lupiani B.** Avian influenza surveillance in hunter-harvested waterfowl from the Gulf Coast of Texas (November 2005-January 2007). Student Research Week, Texas A&M University. April 2008
10. Ferro, P.J.* , El-Attrache J., Fang X., Merendino T., Peterson M.J. and **Lupiani B.** Avian influenza surveillance in hunter-harvested waterfowl from the Gulf Coast of Texas (November 2005-January 2007). College of Veterinary Medicine, Texas A&M University, Graduate Student Association Research Symposium. March 2008
11. Ferro, P.J.* , El-Attrache J., Fang X., Merendino T., Peterson M.J. and **Lupiani B.** Avian influenza surveillance in hunter-harvested waterfowl from the Gulf Coast of Texas (November 2005-January 2007). 2008 Annual Meeting of the Foreign Animal Zoonotic Disease Center, College Station. TX February 2008
12. Ajithdoss D.*, Lee L., **Lupiani B.** and Reddy S.M. "In vitro transformation properties of the Meq protein of MDV". Student Research Week, Texas A&M University. March 2008
13. Brahmakshatriya V.*, Brinlee J.L., **Lupiani B.**, Cepeda M., Pillai S.D., and Reddy S.M. "Decontamination of poultry products infected with avian influenza virus by electron beam irradiation". College of Veterinary Medicine, Texas A&M University, Graduate Student Association Research Symposium. March 2008
14. Brahmakshatriya V.* , **Lupiani B.**, and Reddy S.M. "Exploring the role of avian influenza viral

NS1 protein as interferon antagonist". Student Research Week, Texas A&M University. March 2008

15. Ajithdoss D.*, Reddy S.M. and **Lupiani B.** "Transcriptional and transformation properties of Marek's disease virus oncogene, Meq". Student Research Week, Texas A&M University. March 2007
16. Brahmakshatriya V.*, **Lupiani B.**, and Reddy S.M. "Characterization and evaluation of avian influenza NS1 mutant virus as a potential DIVA (Differentiating Infected from Vaccinated Animals) vaccine for chickens". Student Research Week, Texas A&M University. March 2007
17. Turbyfill K.* and **Lupiani B.** Phylogenic analysis of Texas avian influenza (AI) virus isolates. Student Research Week, Texas A&M University. March 2005

Veterinary Students

1. Dobek G.*** and **Lupiani B.** Expression of sialic acid receptors for the binding of avian influenza virus in partridges and pheasants. Texas A&M College of Veterinary Medicine Summer Veterinary Student Research Fellows Conference. August, 2006
2. Dobek G.*** and **Lupiani B.** Expression of sialic acid receptors for the binding of avian influenza virus in partridges and pheasants. Merck-Merial Veterinary Scholars Symposium, Louisiana State University, Baton Rouge, Louisiana. August 2006
3. Dobek G.*** and **Lupiani B.** Expression of sialic acid receptors for the binding of avian influenza virus in partridges and pheasants. Texas Veterinary Medical Association Conference (oral presentation to the TVMA Board of Directors), Fort Worth, Texas. September 2006

Undergraduate Students

1. Echevarría, M., Ferro, P., Voung C., Metz, K., Hogan, M. and **Lupiani, B.** The Investigation of the simport matrix-chaperones for avian influenza sample storage and transportation. Southern Science Symposium-Ponce School of Medicine and Health Sciences, Ponce, Puerto Rico. November 2012 (Awarded: Second Place)
2. Geraldine Vargas**. "Cloning of the NV Gene of Viral Hemorrhagic Septicemia Virus in an Eukaryotic Expression Plasmid". 3rd UPRP-DHS-COE Research Symposium. December 3, 2010
3. Lilliana Muñoz**. "Cloning of the P Gene of Viral Hemorrhagic Septicemia Virus in an Eukaryotic Expression Plasmid". 3rd UPRP-DHS-COE Research Symposium. December 3, 2010
4. Emily León**. "RNA extraction and phylogenetic analysis of avian influenza virus in ducks". 2nd UPRP-DHS-COE Research Symposium. December 2, 2009
5. Jose Martinez**. "RNA extraction and phylogenetic analysis of avian influenza virus in ducks". 2nd UPRP-DHS-COE Research Symposium. December 2, 2009
6. Emily León**. "RNA extraction and phylogenetic analysis of avian influenza virus in ducks". UPRP 4th Student Research Symposium. March, 2009
7. Jose Martinez**. "RNA extraction and phylogenetic analysis of avian influenza virus in ducks". UPRP 4th Student Research Symposium. March, 2009

8. Joannie González**. "Avian influenza surveillance in wild birds from the Gulf Coast of Texas 2006-2007". 1st UPRP-DHS-COE Research Symposium. December 5, 2008
9. Paulette Vélez**. "Avian influenza surveillance in wild birds from the Gulf Coast of Texas 2006-2007". 1st UPRP-DHS-COE Research Symposium. December 5, 2008
10. Noried de Jesus**. "Understanding avian influenza virus: infection, pathogenicity and prevalence". 2nd Annual Department of Homeland Security University Network Summit, Washington D.C. March 19-20, 2008
11. Cox D.** , Ferro P.J.* and **Lupiani B.** "Detection of paramyxovirus type 1 (PMV-1) in wild waterfowl along the Texas Gulf Coast". Student Research Week, Texas A&M University. March 2008
12. Noried de Jesus**. "Understanding avian influenza virus: infection, pathogenicity and prevalence". Annual Meeting of the FAZD Center 2008, College Station, TX. February 28-29, 2008
13. Noried de Jesus**. "Understanding avian influenza virus: infection, pathogenicity and prevalence". Biology Honor Society (βββ) National Convention, Ponce. February 15-17, 2008
14. Noried de Jesus**. Oral: "Understanding avian influenza virus: infection, pathogenicity and prevalence". UPRP 4th Student Research Symposium, Ponce, PR. November 30, 2007
15. Noried de Jesus**. "Understanding avian influenza virus: infection, pathogenicity and prevalence". Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX. November 7-10, 2007
16. Noried de Jesus**. "Understanding avian influenza virus: infection, pathogenicity and prevalence". Briefing with Jay M. Cohen, DHS S&T Under Secretary, Washington D.C. August 24, 2007
17. Cox D.** and **Lupiani B.** "Evaluation of two mammalian expression systems for large-scale production of avian influenza virus H5 hemagglutinin". Student Research Week, Texas A&M University. March 2007

Students' Awards

Graduate Students

Yifei Liao

- Texas A&M Distinguished Dissertation Award (Biological Sciences and Life Sciences) 2022
- Second place oral presentation award. 13th International Symposium on Marek's Disease and other Herpesviruses 2021
- Outstanding PhD Student Award, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, 2021
- Student Registration Award, American Society for Virology (ASV) 2021
- John Paul Delaplane Award, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, 2020
- Student travel award, American Society for Virology (ASV) 2019
- Student travel award, 12th International Symposium on Marek's Disease and other

Herpesviruses,2018

Kanika Bajwa

- John Paul Delaplaine Award, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University, 2016
- Walter W. Lechner Scholarship, Texas A&M University, 2013

Pamela J. Ferro

- Texas A&M University Association of Former Students Distinguished Graduate Student Award for Excellence in Doctoral Research (Recognizes excellence in research by doctoral students). March 2011
- First place oral presentation "Multiyear surveillance of avian influenza in hunter-harvested waterfowl, Texas Gulf Coast". Student Research Week/Ecological Integration Symposium Taxonomy, Texas A&M University. March, 2010
- College of Veterinary Medicine and Biomedical Sciences Graduate Student Association travel award. August 2009
- Fisher Institute Medical Research Award, College of Veterinary Medicine and Biomedical Sciences Honors Convocation. April 2008

Christine Vuong

- Environmental Health and Safety Award Ribbon Winner (Recognizes research efforts that contribute to and/or value the role and importance of safety at Texas A&M University). "Genetic classification of Newcastle disease virus (NDV) isolated from wild waterfowl on the Texas Gulf". Student Research Week, Texas A&M University. April 2011

Vinayak Brahmakshatriya

- Session Winner Oral Presentation "Exploring the Role of Avian Influenza Viral NS1 Protein as Interferon Antagonist". Student Research Week, Texas A&M University. March 2008
- First Place Poster Presentation "Decontamination of Poultry Products Infected with Avian Influenza Virus by Electron Beam Irradiation". College of Veterinary Medicine, Texas A&M University, Graduate Student Association Research Symposium. March 2008
- Tom Slick Graduate Research Fellowship Award (Students from seven Departments from the College of Agriculture and Life Sciences compete for this prestigious award). 2008-09
- Second place oral presentation "Characterization And Evaluation Of Avian Influenza NS1 Mutant Virus As A Potential DIVA (Differentiating Infected From Vaccinated Animals) Vaccine For Chickens". Student Research Week, Texas A&M University. March 2007
- Invitation to participate in the DHS Science & Technology Directorate Office of University Programs Student & Alumni Day. Homeland Security S&T Stakeholders Conference. Washington D.C. May 2007
- First place poster presentation "Evaluation in Chickens of a Live Attenuated NS1 Mutant

Avian Influenza Virus (AIV) Vaccine". First Annual DHS University Network Summit on Research and Education. Washington DC. (Students from the entire US competed for this award). March 2006

Dharani Ajithdoss

- Texas Broiler Council Endowed Graduate Fellowship, Texas A&M University (2003- 2009)
- Richard B. Rimler Memorial Paper Scholarship Award (Recognizes excellence in poultry disease research by a graduate student). The American Association of Avian Pathologists (AAAP). July 2008
- First place poster presentation and section winner in Microbiology "In vitro transformation properties of the Meq protein of MDV". Student Research Week, Texas A&M University. March 2008
- First place oral presentation "Transcriptional and transformation properties of Marek's disease virus oncogene, Meq". Student Research Week, Texas A&M University. March 2007
- Environmental Health and Safety Award Ribbon Winner (Recognizes research efforts that contribute to and/or value the role and importance of safety at Texas A&M University). "Transcriptional and transformation properties of Marek's disease virus oncogene, Meq" Student Research Week, Texas A&M University. March 2007
- Travel Award, Office of Graduate Studies, Texas A&M University, July 2005

Undergraduate Students

Maria Echevarría

- Second place poster presentation "The Investigation of the simport matrix-chaperones for avian influenza sample storage and transportation". Southern Science Symposium-Ponce School of Medicine and Health Sciences, Ponce, Puerto Rico. November 2012

Dayna Cox

- Second place poster presentation "Evaluation of two mammalian expression systems for large-scale production of avian influenza virus H5 hemagglutinin". Student Research Week, Texas A&M University. March 2007
- First place poster presentation "Detection of Paramyxovirus type 1 (PMV-1) in wild waterfowl along the Texas Gulf Coast". Student Research Week, Texas A&M University. March 2008

PROFESSIONAL DEVELOPMENT ACTIVITIES

- Inclusive Teaching: Supporting All Students in the College Classroom, edX, Spring 2022
- TTLC Book Community: "Teaching Change", Texas A&M University, Spring 2022
- Certificate in Multicultural Mentoring, University of Florida/SEC (online), November 2021
- STRIFE Workshop: Strategies and Tactics for Retention Through Inclusive Promotion Evaluation, Texas A&M University, Spring 2021

- Class XXXVI Governor's Executive Development Program, Fall 2017
- Title IX Investigator II Certificate (by Hayley Hanson, Esq, Husch Blackwell, Kansas City)
- Spring 2017 Consortium of Title IX & Equity Officers, Austin, TX May 8-9, 2017
- Pepper Hamilton Title IX Educational Session: Overview and Investigator training, College Station, TX, December 9, 2016
- 2016 Leadership in Higher Education Conference, Atlanta Georgia, October 6-8, 2016
- Kate A. Ratliff- *Mindbugs: The Ordinary Origins of Bias*, College Station, TX, October 15, 2016
- Green Dot Facilitator Certificate, College Station, TX, June 6-9, 2016
- David Lisak- Workshops on campus sexual assault, Title IX, VAWA, and how individuals can make a positive impact on these crucial topics. College Station, TX, March 31-April 1, 2016
- Effective Conflict Management for Department Heads, Texas A&M University, 2015
- Title IX Coordinator Training (ATIXA), 2015
- Immigration Symposium, Texas A&M University, 2015
- Civil Rights Investigator Training (ATIXA), 2014
- Title IX Coordinator Training (ATIXA), 2014
- Dual-Career Symposium, UT Pan America, Edinburg, TX, Spring, 2014
- Workplace Investigator Training, Texas A&M University System, 2013
- Difficult Dialogues Program Trained Facilitator, Texas &M University, 2013
- Basic Mediator Training (40-hour certification), 2012

ACADEMIC SERVICE (As Administrator)

- Member, ADVANCE Advisory Committee 2019-2023
- Principal Investigator, ADVANCE Center 2016-2017
- Academic Advisory Committee for Project Helios, October 2016-2017
- Chair, Search Committee Associate Dean of Faculties for Faculty Development, September 2016- February 2017
- Faculty Advisory Committee, VP for Student Affairs, September 2015-February 2016
- Special Situation Team (Tell Somebody Hotline), July 2015-July 2019
- *Step In Stand Up* Campaign Committee, July 2015-July 2019
- Diversity Operations Committee, July 2015-September 2021
- Aggie Honor System Advisory Committee, September 2015-2016
- Commencement Committee, 2015-2016
- Task Force on Faculty Evaluation and Post-Tenure Review, September 2015-February 2016
- ADVANCE Planning Committee, July 2015-2017
- Co-Chair, Director Center for Teaching Excellence Search Committee, 2014
- Liaison, Public Information Requests for DOF Office, 2013-Present
- Drug Free Schools and Communities Act (DFSCA) committee, 2012-2020
- Title IX Faculty Deputy Coordinator, 2012-2018

- Title IX Compliance Committee, 2012-2018
- MSC Bookstore Advisory Committee, 2012
- STRIDE Committee (Strategies and Tactics for Recruiting to Improve Diversity and Excellence) ADVANCE Center, 2014-2017
- Faculty Recognition Committee ADVANCE Center, 2013-2017
- LEAD Committee ADVANCE Center, 2013-2017

ACADEMIC SERVICE (As Faculty Member)

- Texas A&M University Academic Roadmap Initiative Committee, 2024
- Texas A&M Capacity Study Committee, 2024
 - Member Instructional Capacity Subcommittee
 - Chair Research Capacity Subcommittee
- University Honorary Degree Committee, Chair, 2024-Present
- Vice Provost for Faculty Affairs Search Advisory Committee Co-chair, 2024
- VMBS Graduate Instruction Committee (GIC), Co-leader Infection, Immunity, & Epidemiology Track, 2023-Present
- Member Steering Committee Strategic Initiative 2: Strengthening and Harnessing Our Research Enterprise to Invent Solutions, School of Veterinary Medicine and Biomedical Sciences, 2022
- Member Executive Committee of the Faculty Senate, 2023-Present
- Faculty Senator, School of Veterinary Medicine & Biomedical Sciences, 2022-Present
- Member Personnel & Welfare Committee, Faculty Senate, 2022-Present
- Chair P&T Committee, Department of Veterinary Pathobiology, 2022-Present
- Member P&T Committee, School of Veterinary Medicine and Biomedical Sciences, 2022-Present
- Member Research Advisory Council, School of Veterinary Medicine & Biomedical Sciences, 2022-Present
- Member Space Subcommittee, School of Veterinary Medicine & Biomedical Sciences, 2022-Present
- Member, ADVANCE Advisory Committee 2019-2023
- Faculty Affairs Faculty Fellow 2022-2023 (redesign and development of materials for search committee training)
- University Honorary Degree Committee, 2010-2013 (Chair 2011-2012)
- Medical Science Library Council, 2005-2012
- Executive Committee Faculty Senate, 2011-2012
- Faculty Senator, College of Veterinary Medicine & Biomedical Sciences, 2009-2012
- Associate Dean of Faculties Search Committee, 2011
- Legislative Affairs Committee Faculty Senate, 2010-2011
- Elections Committee Faculty Senate, 2010-2011
- Diversity Committee Faculty Senate, 2009-2011

- Institutional Biosafety Committee (IBC), 2009-2011
- Curriculum Committee Department of Poultry Science, 2005-2010
- College of Veterinary Medicine & Biomedical Sciences Merit Scholars Committee, 2011
- Co-Chair College of Veterinary Medicine & Biomedical Sciences Task Force on BSL-3 Facilities, 2010
- Dean College of Veterinary Medicine and Biomedical Sciences, Search Committee, 2008

PROFESSIONAL SERVICE

Editorial Boards

- Editorial Board *Avian Diseases*, 2008-Present
- Editorial Board *Vaccines*, 2020-Present
- Guest Editor *Viruses: Marek's Disease Virus*, 2022-2023
- Guest Editorial Board *Avian Diseases* Vol. 60, 1S1 2016 (Ninth International Symposium on Avian Influenza)
- *Associate Editor* Sixth Edition of "A Laboratory Manual for the Isolation, Identification, and Characterization of Avian Pathogens" (Published by the American Association of Avian Pathologist), 2015
- Guest Editorial Board *Avian Diseases* Vol. 57, 2S1 2013 (Ninth International Meeting on Marek's Disease and Avian Herpesviruses)
- Guest Editorial Board *Avian Diseases* Vol. 56, 4S1 2012 (Eighth International Symposium on Avian Influenza)
- Guest Editorial Board *Avian Diseases* Vol. 54, 1S1 2010 (Seventh International Symposium on Avian Influenza)

Organization of National and International Meetings

- *Member Steering Committee* of the 9th International Symposium on Marek's Disease and Avian Herpesviruses. Berlin, Germany, June 24-27, 2012
- *Member Scientific Advisory Committee* of the 5th International Workshop on the Molecular Pathogenesis of Marek's Disease Virus and 1st Symposium on Avian Herpesviruses. Athens, GA, October 2010
- *Moderator Section 4* (Viral Proteomics and Genomics) of the 5th International Workshop on the Molecular Pathogenesis of Marek's Disease Virus and 1st Symposium on Avian Herpesviruses. Athens, GA, October 2010

Expert Panel Membership

- *Review Panel Member* ARS Animal Health Research Program, 2021-2022
- *Ad hoc Reviewer* Review ARS Animal Health Research Program, 2022
- *Review Panel Member* USDA/NIFA Animal Health Research Grants, December, 2016
- *Review Panel Member* USDA/NIFA Animal Health Research Grants, September 2015
- *Member* of SAB Subcommittee Site Visit Review of Division of Microbiology, National Center for Toxicological Research (NCTR), Food and Drug Administration (FDA) Arkansas, July 2013

- *Review Panel Member* ARS Animal Health Research Program, 2011
- *Member* “Avian Influenza Working group” Sponsored by The DHS Center for Excellence on Foreign Animal and Zoonotic Disease. San Antonio, TX, 3-4 October 2005

Leadership in Scientific Organizations

- *Director* (Texas Representative) of the Southern Conference on Avian Diseases (SCAD), 2011- Present
- *Diagnostics Coordinator* Avian Influenza Coordinated Agricultural Project (USDA) (AICAP1 and AICAP2), 2007-2011
- *Core member* Avian Tumor Virus Committee, American Association of Avian Pathologists, 2011- Present

Other

- Awards Committee, American Association of Avian Pathologists (AAAP), 2023-Present

Journal Reviewer

- *Influenza and Other Respiratory viruses*
- *Vaccine*
- *Veterinary Microbiology*
- *PLoS One*
- *Archives of Virology*
- *Avian Pathology*
- *Journal Virological Methods*
- *Journal of Invertebrate Pathology*
- *Journal of General Virology*
- *Viral Immunology*
- *Virology Journal*
- *Virus Research*
- *Analytical Biochemistry*
- *BMC Veterinary Research*
- *Genomics*
- *Acta Veterinaria Scandinavica*
- *Journal of Zoo and Wildlife Medicine*
- *Journal of Veterinary Medicine and Animal Health*
- *Poultry Science*

Grant Reviewer

- Review Panel ARS Animal Health Research Program, 2021-2022
- *Ad hoc* Reviewer ARS Animal Health Research Program, 2022
- USDA/AFRI SBIR
- USDA/NRI, USDA/AFRI
- AFRI/NIFA National Needs Fellowships Program
- NSF, *Symbiosis, Defense and Self- recognition*
- University of Maryland Agriculture Experiment Station Grants
- Research Enhancement Competitive Grants Program

- Ohio Agricultural Research and Development Center's SEEDS: Research Fund for the Control of Infectious Diseases
- Health and Health Services Research Fund, Hong Kong SAR Government
- US-Israel Bi-national Agricultural Research and Development (BARD) Fund
- NIH CEIRS grants

Professional Organizations Membership

- *American Association of Avian Pathologists, 2007-Present*
- *American Society for Virology, Full Member, 2000-Present*