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**Dr. Anjaneya Ayanur**

**Scientist**

**CSIR-Indian Institute of Toxicology Research, Lucknow**

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**Academic Qualifications:**

Ph.D, Veterinary Pathology (2015) Indian Veterinary Research Institute, Izatnagar, India

M.V.Sc, Veterinary Pathology (2011) Indian Veterinary Research Institute, Izatnagar, India

B.V.Sc & A.H., Veterinary Science and Animal Husbandry (2009), KVAFSU, Bangalore, India.

**Professional Record:**

Scientist - C (Veterinary Pathology), CSIR- Indian Institute of Toxicology Research, April 2016-

To date.

Research Associate, Indo-UK/DBT-BBSRC project, Center for Animal Disease Diagnosis and Research (CADRAD), ICAR-IVRI, Izatnagar, Bareilly.U.P.India, March 2015 to April 2016 .

Senior Research Fellow (SRF) – Ph. D degree in Discipline of Veterinary Pathology , Centre for Animal Disease Research and Diagnosis (CADRAD), ICAR-IVRI, Izatnagar, Bareilly.U.P.India, Sept 2011- February 2015.

Junior Research Fellow (JRF) – Master’s degree in Discipline of Veterinary Pathology, Avian Disease Section, Division of Pathology, ICAR-IVRI, Izatnagar, Bareilly.U.P.India, Sept 2009- Aug 2011.

**Honors, Awards and Fellowships:**

1. Awarded the ICAR-JRF (Veterinary Science) for Post-graduate studies in discipline of Veterinary Pathology ICAR-IVRI Izatnagar, Bareilly.U.P.India.
2. Awarded the Institutional fellowship for successfully qualifying Ph.D Entrance Examination (2011-12) at ICAR-IVRI Izatnagar, Bareilly.U.P.India.
3. Awarded the ICAR- SRF for Ph.D in the discipline of Veterinary Pathology at ICAR-IVRI Izatnagar, Bareilly.U.P.India.
4. Awarded the eligibility certificate in theNational Eligibility Test held in the discipline ofParaclinical Veterinary Science conducted by ASRB, ICAR, New Delhi***.***
5. Best poster presentation award in national seminar on “Advances in Animal Cancer Research in India: Diagnosis, Treatment and Clinical Management” (15-16th June, 2010). Indian Association of Veterinary Pathologists ICAR-IVRI, Izatnagar.
6. Best technical paper writing award in Lyka Summit : 2010-11 conducted by Lyka Expert Limited, Animal Health Care Division, Mumbai, India
7. Best poster presentation award in national symposium organized (2015) by IAVP Chapter, IVRI during the 52nd foundation day of division of pathology, ICAR-IVRI, Izatnagar.
8. Young researcher award in national workshop on “Current trends and future research challenges in vaccines and adjuvants” (2015) held at ICAR-IVRI, Izatnagar.

**Area of Interest:**

1. Experimental and Toxicological Pathology: Experimental study protocol design, development of standard operating procedures (SOP) for Toxico-Pathological evaluation of drugs, pesticides, AYUSH products and biomedical devices.
2. Pathology of Laboratory Animals: Laboratory animal health care, management of breeding husbandry practices, quarantine procedures and quality control programmes.
3. Laboratory Animal Medicine/Welfare and Ethical issues as per the CPCSEA guidelines, Government of India (GOI).

**Membership of Professional Societies:**

1. Life member of *Society of Toxicologic Pathologist – India* (STP-I).
2. Life member of *Indian Association of Veterinary Pathologists* (IAVP).
3. Life member of *Laboratory Animal Scientists Association – India* (LASA).
4. Life member of *Veterinary Council of India* (VCI).
5. Life member of *Karnataka Veterinary Council* (KVC).

**Current Activities:**

Pre-Clinical Safety / Toxicity Evaluation of drugs molecules, new chemical entities, agro-pesticides, herbal and AYUSH products under OECD Principles of Good Laboratory Practices (GLP) and other national / international regulatory guidelines.

**Team:**

Dr. Poonam Kakkar, Chief Scientist, Area Coordinator, Regulatory Toxicology Group

Dr Akshay Dwarakanath, Principal Scientist

Dr. Dhirendra Singh, Senior Scientist

Dr. Mahadeo Kumar, Scientist

Dr. Jyotsna Singh, Scientist

Dr. S. Anbumani, Scientist

Mr. Pradeep Kumar Singh, Sr. Technical Officer

Mr. Pankaj Jagdale, Technical Assistant

**List of Publications:**

1. **Anjaneya**, Shambhu Dayal Singh, Kuldeep Dhama, Mohd.Yaqoob Waniand Gowthamna Vasudevan. (2014). Isolation, Antibiogram and PCR Detection of *Avibacterium paragallinarum* from Poultry Flocks of India. *Journal of Pure and Applied Microbiology*, **8**(5): 4181-4188.
2. **Anjaneya**, Shambhu Dayal Singh, Kuldeep Dhama, Mohd.Yaqoob Wani, Gowthaman Vasudevan and M.Mchawak. (2014). Molecular Characterization of *Avibacterium paragallinarum* Isolated from Poultry Flocks of India. *Asian Journal of Animal and Veterinary Advances,* **9** (7): 440-450.
3. **Anjaneya,** Shambhu Dayal, Singh, Kuldeep Dhama, V. Gowthaman and M.M. Chawak. Pathogenicity study of field isolates of *Avibacterium paragallinarum* in experimentally infected birds. *Indian Journal of Veterinary Pathology,* **37**(1) : 13-17, 2013.
4. Madhu Cholenahalli Lingarajua, Nitya Nand Pathak, Jubeda Begum, Venkanna Balaganur, Rafia Ahmad Bhat, Harish Darasaguppe Ramachandra, **Anjaneya** Ayanur, Mahendra Ram, Vishakha Singh, Dhirendra Kumar, Dinesh Kumar, Surendra Kumar Tandan (2015). Betulinic acid attenuates lung injury by modulation of inflammatory cytokine response in experimentally-induced polymicrobial sepsis in mice. *Cytokine,* **71**: 101–108.
5. Vasudevan Gowthaman, Shambu Dhayal Singh, Rajamani Barathidasan, **Anjaneya**, Kuldeep Dhama. Naural Oubreak of Newcastle Disease in Turkeys and Japanese Quails Housed Along with chicken in Multi-species Poultry Farm in Northern India. *Advances in Animal and Veterinary Sciences,* **1** (3): 17 – 20.
6. Gowthaman, V., Singh, S.D., Dhama, K., Barathidasan, R**., Anjaneya** and Ramakrishnan, M.A. (2011). Pathology and molecular diagnosis of Newcastle disease virus infection in broiler breeders. *Indian Journal of Veterinary Pathology,* **35**(2) : 168-170.
7. V. Gowthaman, S.D. Singh, K. Dhama, R. Barathidasan, **Anjaneya** and P. Bhatt. Infectious Bursal Disease Playing A Triggering Role In *E.Coli* And *Mycoplasma* Induced Respiraory Disease Complex In Broilers. (2013). *Veterinary Practitioner,* **13**(2): 223-225.
8. D.N. Madhu, A.M. Pawde, Amarpal, P. Kinjavdekar, H.P. Aithal, K.P. Singh and **Anjaneya**. Histomorphological and histochemical evaluation of Calendula officinalis Linn. for healing of full thickness skin wound in rabbits. (2013). *Indian Journal of Veterinary Pathology,* **37**(2) : 141-144.
9. S.G. Chethan, S.K. Singh, M. Karikalan, N.S. Kharayat, B.K. Behera, K. Narayanan, H. Kumar and A. **Anjaneya**. Histopathological Evaluation of Important Uterine Pathological Affections in Riverine Buffalo (Bubalus bubalis): An Abattoir Study. (2015). *Asian Journal of Animal and Veterinary Advances***, 10** (8): 406-415.
10. Susan Cherian, Rajendra Singh, K.P. Singh, G.B. Manjunatha Reddy, **Anjaneya**, G.V.P.P.S. Ravikumar, T.G. Sumithra, R.P. Singh. Phylogenetic analysis of Indian rabies virus isolates targeting the complete Glycoprotein gene. (2015). *Infection, Genetics and Evolution*, **36**:333-338.
11. Susan Cherian, Rajendra Singh, **Anjaneya** and Singh KP. Rabies Glycoprotein: A Benefit to the Virus, us or both?. (2015). *Journal of Veterinary Sciences*, **1**(1) 1-9.
12. **Anjaneya**, Singh K.P., Susan C., Singh V., Nandi S., Singh R and Tiwari A.K. Sero-epidemiology molecular detection of bluetongue virus in ruminants. (2016). *Veterinaria Italiana,* **52** (3-4), 305-311. doi: 10.12834/VetIt.569.2715.2

**Popular Articles:**

1. Dhama, K., Hansa, A and **Anjaneya**. (2011). Cytokine therapy for animal diseases: The perspectives. *Livestock Line,* **11**(4): 24-31.
2. Dhama, K., **Anjaneya**, Hansa, A and Singh, S.D. (2011). Fungal Diseases of Poultry. *Poultry fortune,* 30-35.
3. Dhama, K., Hansa, A and **Anjaneya**. (2011). Campylobacter infection in Poultry and its Zoonotic Significance. *Poultry Punch,***26**(6): 50-55.

**Abstracts Published in National / International Seminars / Symposia / Conference:**

1. **Anjaneya,** S. D. Singh, K. Dhama and V. Gowthaman. (2010).Pathology and Status of Avian neoplasms in India**.** National Seminar on “Advances in Animal Cancer Research In India: Diagnosis, Treatment and Clinical Management” (15-16th June, 2010), Indian Association of Veterinay Pathologists. Pp.94.
2. **Anjaneya,** S. D. Singh, K. Dhama, V. Gowthaman and M.M Chawak. (2011). Phylogenetic analaysis of Haemagglutinin gene (‘*hagA’*) of *A. paragallinarum* isolated from chickens in India.XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp.104.
3. **Anjaneya, S**. D. Singh, K. Dhama, M.S Murugan and M.M Chawak. (2011).Detection and Restriction endonuclease analysis of a Haemagglutinin gene (‘*hagA’*) of *Avibacterium paragallinarum* isolates from India.XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp no.105.
4. **Anjaneya**, S. D. Singh, K. Dhama, V. Gowthaman. (2011).Molecular Diagnosis of Infectiousc Coryza using gene specific Polymerase Chain Reaction (PCR)**.** XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp.105.
5. **Anjaneya**, S.D. Singh, K. Dhama, R. Durairajan and M.M. Chawak. (2011).Isolation, identification and Pathology of Avian Infectious coryza (IC) in India**.** XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp.106.
6. **Anjaneya**, Singh, S.D., Dhama, K., and Gowthaman, V. (2011).Pathogenicity Study of field Isolates of *Av. paragallinarum* in Experimentally Infected Birds. XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp.106.
7. **Anjaneya**, S. D. Singh, K. Dhama, V. Gowthaman and M.M Chawak. (2011). Amplified 16S Ribosomal DNA Restriction Analysis (ARDRA) for identification of *Avibacterium paragallinarum* isolates from chicken**.** XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” (29-30th December, 2011). Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai. Pp.106.
8. V. Gowthaman, S.D. Singh, R. Barathidasan, Anjaneya and K. Dhama. (2013). Naural Oubreak of Newcastle Disease in Turkeys and Japanese Quails Housed Along with chicken in Multi-species Poultry Farm in Northern India, In: XXVII National Symposium of Indian Association of Veterinary Microbiologists, Immunologists and Speciliasts in Infectious Diseases (13-15th December, 2013). Department of Animal Husbandry, Govt. of Uttar Pradesh, Lucknow (India). Pp-55
9. S.Vineetha, K.P Singh., R.Singh, **Anjaneya**, Susan Cherian, Adhiraj Mishra. Seroepidemiology of bluetongue virus cattle using C-ELISA. 31st Annual Conference of Indian Association of Veterinay Pathologists (13-15th November, 2014). Department of Veterinary Pathology, Veterinary college, AAU, Anand, Gujarat. Page no.75.
10. **Anjaneya** and S.D. Singh. Pathology and Molecular Diagnosis of Infectious Coryza (IC) in Poultry. (2011). Indian Journal of Veterinary Pathology. Pp-272.
11. Sibani Panda, K.P Singh, Anjaneya and J.H. Khorajiya. Serological survey of bluetongue virus antibodies in cattle in Badaun district of Uttar Pradesh. XXXII Annual Conference of Indian Association of Veterinay Pathologists. (3-5th December, 2015). Department of Veterinary Pathology, NTR CVS, SVVU, Gannavaram, A.P. Pp.52.
12. S.Vineetha, K.P Singh., R.Singh, D.Biplab, **Anjaneya**, J.H. Khorajiya Susan Cherian, Sibani Panda. Pathology of aborted fetuses in natural cases of bovine abortion. (3-5th December, 2015). XXXII Annual Conference of Indian Association of Veterinay Pathologists. Department of Veterinary Pathology, NTR CVS, SVVU, Gannavaram, A.P. Pp.67.
13. S.Vineetha, K.P Singh., R.Singh, D.Biplab, **Anjaneya**, J.H. Khorajiya Susan Cherian, Sibani Panda.Bacteriological, Serological and Molecular studies of bovine abortion. (3-5th December, 2015). XXXII Annual Conference of Indian Association of Veterinay Pathologists. Department of Veterinary Pathology, NTR CVS, SVVU, Gannavaram, A.P. Pp.67.
14. Monalisa Sahoo, R. Singh, K.P Singh, G. Saikumar, N.R. Sahoo and Anjaneya. Spontaneous neurocysticercosis in Indian pigs: An immunopathological study. (3-5th December, 2015). XXXII Annual Conference of Indian Association of Veterinay Pathologists. Department of Veterinary Pathology, NTR CVS, SVVU, Gannavaram, A.P. Pp.342.
15. K.P Singh, **Anjaneya**, M. Karikalan, J.H. Khorajiya, Shibani Panda, S. Chandra Mohan, S. Illaya Raja and A.K. Sharma. Detection of bluetongue virus antibodies in wild herbivores (Elephant and Blackbuck) in India. International Symposium on Ecology and Health Management of Asiatic Elephant (Elephas maximus). 19-20 November,2015). Association of Indian Zoo and Wildlife Veterinarians. Pp.303
16. **Anjaneya**, Singh K.P., Susan C., J.H. Khorajiya, Shibani Panda, M.Saminathan and R.Singh. Murine T cell immune response directed against VP7 and NS1 antigenic epitopes of Bluetongue virus-2 in BALB/c Mouse model. Current Trends and Future Research Challenges in Vaccines and Adjutants. Indian Virological Society. Indian Veterinary Research Institute. Pp.124.

**Papers Presented in National / International Seminars / Symposia / Conference.**

1. **Anjaneya**, Singh K.P., Susan C., Singh V., Nandi S., Singh R and Tiwari A.K. Sero-epidemiology molecular detection of bluetongue virus in ruminants. (2014). IV International Conference of Bluetongue and related Orb viruses, 2014. Rome Italy.
2. Singh K.P., **Anjaneya**, Susan C., Singh R and Tiwari A.K. Neuropathogenesis of Bluetongue Virus in Suckling Mouse Model. (2014). IV International Conference of Bluetongue and related Orb viruses, 2014.Rome Italy.
3. **Anjaneya,** S.D. Singh, K. Dhama and M.M. Chawak**.** Pathology and Molecular Diagnosis of Infectious Coryza (IC) in Poultry. (2011). XXVIII Annual Conference of Indian Association of Veterinay Pathologists and National Symposium on “Innovative Research Approaches for Diagnostic Pathology” during 29-30th December, 2011 being organized by Department of Veterinary Pathology, Madras Veterinary College, TNVASU. Chennai.
4. **Anjaneya**, K.P Singh, C. Susan, J.H Khorajiya, Sibani Panda, M. Saminathan and R.Singh. Comparative neuropathology and cell mediated immune response directed against VP7 and NS1 antigenic epitopes of bluetongue virus in BALB/c mouse model. XXXII Annual Conference of Indian Association of Veterinay Pathologists. (3-5th December, 2015). Department of Veterinary Pathology, NTR CVS, SVVU, Gannavaram, A.P.Pp.317.

**Gene Sequence Submitted to NCBI :**

* *Avibacterium paragallinarum* : Haemagglutinin gene : 06
* Rabies Virus: Glycoprotein Gene : 06