

## Vitae (Brief CV)



Name : Dr. KULDEEP DHAMA  
 Current Position : PRINCIPAL SCIENTIST  
 D.O.B. : 15.08.1969

Complete Postal Address: Division of Pathology,  
 Indian Veterinary Research Institute (IVRI),  
 Izzatnagar, Bareilly (Uttar Pradesh), Pin- 243 122, INDIA  
 Telephone : +91-581 - 2310074 (Off.); +919837654996 (Mobile); FAX Number: 0091-581- 2303284  
 E-mail: kdhama@rediffmail.com

### Educational Qualifications:

Sep 1999 – Sep 2002 Ph.D. (Gold Medal), Avian Diseases (Major);  
 Vety. Immunology & Vety. Virology (Minor)  
 ICAR-Indian Veterinary Research Institute, Izzatnagar, India

Sep 1992 – Jul 1994 M.V.Sc., Veterinary Immunology (Major); Veterinary Virology (Minor)  
 Indian Veterinary Research Institute, Izzatnagar, India

Aug 1987 – Jul 1992 B.V.Sc. & A.H. (Hons.), Veterinary Sciences & Animal Husbandry  
 G. B. Pant University of Agriculture and Technology, Uttarkashi, India  
 [Ph.D. (89%); M.V.Sc. (87%); B.V.Sc. & A.H. (Hons.) (88%)]

### Expert Field and Area of Works:

Veterinary Microbiology, Immunology, Molecular Biology, Infectious Diseases, Animal & Poultry  
 Health, Diagnosis, Prevention and Control of Animal Diseases

### THESIS

1. K. Dhama (1992). M.V.Sc. Thesis "Effects of Mycobacterium bovis BCG infection on various activities of blood monocytes and cytotoxic cells in bovines".
2. K. Dhama (2002). Ph.D. Thesis "Pathogenicity and Immunosuppressive effects of chicken infectious anaemia virus (CIAV) in chicks & evaluation of diagnostic tests for its detection".

Service Experience : 21 years  
 Projects Handled : 13 [As Principal Investigator: 03 ; As Co-Investigator : 10 ]  
 Trainings Achieved / Imparted : 18 ; Conferences/Symposium/Training/Workshops Organized: 06  
 Patent Filed : 01

### Research Projects handled

Sl. No.	Title of the project	Worked as	Period	Funding Agency
1.	Disease Investigation and Diagnosis of Diseases of Animals in the Temperate Region of India	Co-Investigator	01st April 1997 to 30th April 1998	Indian Veterinary Research Institute (I.V.R.I.), Mukteshwar
2.	Investigation and Diagnosis of Diseases of Poultry and other Captive Birds	Co-Investigator	July 1998 - Continuing (Service Project)	I.V.R.I., Izzatnagar
3.	Studies on Prevalence and Diagnosis of Chicken Anaemia Virus (CAV) Infection in Poultry	Co-Investigator	April. 2000 to March 2004	I.V.R.I., Izzatnagar
4.	Production and Quality Control of Veterinary Immunodiagnosics & Immunoprophylactics under Plan Scheme "Strengthening & Development of Agricultural education - "Niche Area of Excellence (NAE)" -Development of diagnostics & vaccine for chicken anaemia virus	Co-Investigator	Sept. 2005 - March 2007	I.C.A.R.

5.	Characterization of Turkey Pox virus & Development of Immunoprophylactic Agent(s) for its Control	Co- Investigator	April 2002 - Continuing	I.V.R.I., Izatnagar
6.	Development of Diagnostic & Vaccine for Chicken Infectious Anaemia	Principal Investigator	April 2004 - Continuing	I.V.R.I., Izatnagar
7.	Molecular Epidemiology and Development of Immunodiagnostic(s) for Chicken Anaemia Virus Using Recombinant DNA Technology	Principal Investigator	July 2005 - July, 2009	Department of Biotechnology (DBT)
8.	Under - “Niche Area of Excellence (NAE)” Studies on the anti-cancer properties of chicken infectious anaemia virus (CIAV) VP3 protein and development of a DNA vaccine for CIA	Principal Investigator	April 2007 -Continuing	I.C.A.R.
9.	Viro-immunopathological studies on calf diarrhoea	Co- Investigator	June 2008- June, 2011	I.V.R.I., Izatnagar
10.	Studies on Avian Oncogenic Viruses with Special Reference to Marek’s Disease Virus.	Co- Investigator	2009 To.....	I.V.R.I., Izatnagar
11.	Diagnosis of IBV infection in Poultry using molecular biology techniques.	Co- Investigator	Jan. 2010 - March 2012	I.V.R.I., Izatnagar
12.	Holistic Approach for improving livelihood security through livestock based farming system in Barabanki and Raebareli districts of U.P. (NAIP-3)	Co- Investigator	April 2010 -June 2015	ICAR
13	"Development of Recombinant Protein Based Penseide Diagnostic Kit for Avian Reovirus Infection (RGYI)"	Co- Investigator	April 2013- Continuing	Department of Biotechnology (DBT)

#### AWARDS / HONOURS:

- College & Univ. Merit Certificates, Univ. Merit Scholarship; B.V.Sc. & A.H. Degree with Hons. (1988-92)
- Gold Medal in PhD (2002)
- 45 Best Paper Awards of National & International Level recognition
- Guided 65 M.V.Sc./Ph.D. students as Advisor/Guide (14) / Co-advisor (51) (05 students guided as advisor are pursuing Ph.D./PDF in USA/UK, Appointed as Scientist, 02 Awarded Ph.D. Gold Medal).
- Nodal Officer, World Trade Organization (WTO), Technical Barrier to Trade (TBT), Ministry of Food Processing Industries (MOFPI), Govt. of India (2007-09)
- ♦ Member, Species Survival Commission (SSC), Wildlife Health Specialist Group (International Union for Conservation of Nature, IUCN).
- ♦ NAAS (National Academy of Agricultural Sciences (NAAS) Associate, India (Young Scientist Recognition Award)
- Member, Institute Management Committee (IMC), CARI, Izatnagar (2008-2010).
- Member of 17 Professional/Scientific Societies.
  1. Veterinary Council of India (VCI) (Registered Member) 2. U.P. Veterinary Council (UPVC) (Registered Member) 3. Delhi Veterinary Association (DVA) 4. Indian Association of Veterinary Microbiologists, Immunologists & Specialists in Infectious Diseases (IAVMI) 5. Indian Association for Advancement of Veterinary Research (IAAVR) 6. Indian Society for Veterinary Medicine (ISVM) 7. Indian Poultry Science Association (IPSA) 8. Society for Immunology and Immunopathology (SIIP) 9. Panchgavya Professional’s Club (PGPC) 10. Indian Association of Veterinary Public Health (VPH) 11. Cow Therapy Society (CTS) 12. Indian Association of Veterinary Pathologists (IAVP) 13. World Poultry Science Association (WPSA) 14. Indian Virological Society (IVS) 15. Dr. C.M. Singh Endowment Trust, Bareilly (U.P.) 16. Association of Avian Health Professional (AAHP)

#### Main Area of Research Expertise / Interest:

Diagnosis, Vaccine Development, Prevention and Control of Important Livestock and Poultry Diseases, with Special Reference to Microbiology, Immunology, Molecular Biology & Viral Diseases.

#### Expertise/Keywords

Veterinary	Poultry Diseases	Public Health	Disease Prevention
Animal Diseases	Microbiology	Disease Investigation	Disease Control
Disease Diagnosis	Molecular Biology	Immunology	Immunoprophylaxis
Vaccine	Zoonosis	Epidemiology	Bacteria
Virus	Pathogens		

## PUBLICATIONS: 1208

Research & Review Papers	: 400	(200 in International Journals: Vaccine, Transboundary & Emerg Dis., Biomed Res Int., Vet Res Commun. J. Gen. Virology, Trop Anim Hlt Prod., J Virol. Methods, Vet Arhiv, Virus Res., Vet Quart., Acta Virol., J. Infection in Dev. Countries, Int. J. Pharmacol., Acta Vet. Hungarica, Indian J. Exp. Biol., Ind. J. Biotechnol., VirusDis., Veterinarni Medicina, Infection Genetics & Evolution, J Clin Microbiol., J Applied Anim Res., Microbial Pthogenesis, Vet. Microbiol., & others)
Books	: 06	(03 International inclusive of 01 in Springer on Flu viruses)
Manuals/Souvenir	: 12	
Monographs	: 08	
Technical Bulletins	: 04	
Extension Folders	: 04	
E-publications	: 06	
Book Chapters	: 62	(32 in International Books)
Technical/	: 205	
Popular Articles		
Presentations (Abstracts/Papers)	: 330	(60 in International Conf./Symposium; 50 Lead / Invited Papers)
Gene Accession No.	: 171	

## SALIENT PUBLICATIONS (2011-2016)

1. Patyal, A., Rathore, R.S., Mohan Hosakote Venkatappa, **Dhama, K.** and Kumar, A. (2011). Prevalence of *Arcobacter* spp. in Humans, Animals and Foods of Animal Origin Including Sea Food from India. *Transboundary and Emerging Diseases*. 58 (2011) 402–410.
2. Bhatt, P., Shukla, S.K., Mahendran, M., **Dhama, K.**, Chawak, M.M. and Kataria, J.M. (2011). Prevalence of chicken infectious anemia virus (CIAV) in commercial poultry flocks of Northern India: A serological survey. *Transboundary and Emerging Diseases*. 58: 458–460.
3. Pathania, S., Kumar, P. Devi, L.G., Kumar, D., **Dhama, K.** and Somvanshi, R. (2011). Preliminary assessment of binary ethylenimine inactivated and saponized cutaneous warts (BPV-2) therapeutic vaccine for enzootic bovine haematuria in hill cows. *Vaccine*, **29(43)**:7296-7302.
4. **Dhama, K.** Mahendran, M., Tiwari, R., Singh, S.D., Kumar, D., Singh, S.V. and P.M. Sawant (2011). Tuberculosis in birds: Insights into the *Mycobacterium avium* infections. *Vet. Med. Int.*, Vol. 2011, Article ID 712369, 14 pages, doi:10.4061/2011/712369.
5. Pathania, S., **Dhama, K.**, Saikumar, G. S. Shahi and Somvanshi, R. (2012). Detection and quantification of Bovine Papilloma Virus Type 2 (BPV-2) by Real-time PCR in Urine and Urinary Bladder Lesions in Enzootic Bovine Haematuria (EBH)-Affected Cows. *Transboundary and Emerging Diseases*. **59**:79-84.
6. Sumi, V., Singh, S.D., **Dhama K.**, Gowthaman V, Barathidasan, R. and Sukumar K (2012). Isolation and molecular characterization of infectious bronchitis virus isolated from recent outbreaks in broiler flocks reveals emergence of novel strain in India. *Tropical Animal Health and Production*, 44(7):1791-5.
7. Naveen, K.A., Singh, S.D., Kataria, J.M., Barathidasan, R. and **Dhama, K.** (2013). Detection and differentiation of pigeon paramyxovirus serotype-1 (PPMV-1) isolates by RT-PCR and restriction enzyme analysis. *Tropical Animal Health and Production*, 45(5):1231-1236.
8. Barathidasan R., Pawaiya, RS, Rai, RB and **Dhama K** (2013). Upregulated Myc Expression in N-Methyl Nitrosourea (MNU)- induced Rat Mammary Tumours. *Asian Pac. J. Cancer Prev.* **14(8)**:4883-4889.
9. Barathidasan, R., Singh, S.D., Saini, M., Sharma, A.K. and **Dhama, K.** (2013). The first case of angioinvasive pulmonary aspergillosis in a Himalayan Griffon Vulture (*Gyps himalayensis*). *Avian Biology Research*, 6(4): 302-306.
10. Saminathan, M. RB Rai, **K. Dhama**, R. Tiwari, S. Chakraborty, Amarpal, GJ Ranganath and K. Kannan (2013). Systematic review on anticancer potential and other health beneficial pharmacological activities of novel medicinal plant *Morinda citrifolia* (Noni). *Int. J. Pharmacology*, 9(8): 462-492.
11. Bhatt, P., Shukla, S.K., Wani, M.Y., Tiwari, R. and **Dhama, K.** (2013). Amelioration of chicken infectious anaemia virus induced immunosuppression by immunomodulator and haematonic supplementation in chicks. *Veterinarski Arhiv*, 83 (6), 639-652.
12. Singh S.V., Singh, P.K., Singh, A.V., Sohal, J.S., Kumar, N., Chaubey, K.K., Gupta, S., Rawat, K.D., Kumar, A., Bhatia, A.K., Srivastava, A.K. and **Dhama, K.** (2014). 'Bio-load' and bio-type profiles of *Mycobacterium avium* subspecies paratuberculosis infection in domestic livestock population endemic for Johne's disease s / flocks of domestic livestock: A survey of 28 years (1985-2013) in India. *Transbound. Emerg. Dis.* Volume 61 (Supplement s1): 43–55.
13. Rajagunalan, S., Garima Bisht, Sheetal Pant, S.P. Singh, Rashmi Singh and **K. Dhama** (2014). Prevalence and molecular heterogeneity analysis of *Campylobacter jejuni* and *Campylobacter coli* isolated from human, poultry and cattle, in Pantnagar, Inda. *Veterinarski Arhiv*, 84 (5): 493-504.

14. Barathidasan R., S. D. Singh, V. Gowthaman, A. Latchumikanthan and **K. Dhama** (2014). The first report of severe intestinal capillariosis caused by *Baruscapillaria obsignata* in farmed helmeted guinea fowls (*Numida meleagris*). *Veterinarski Arhiv*, 84 (5): 529-536.
15. Wani, M.Y., **Dhama, K.**, Latheef, SK, Singh, S.D. and Tiwari R. (2014). Correlation between cytokine profile, antibody titre and viral load during sub-clinical chicken anemia virus infection. *Veterinarni Medicina*, 59(1): 33-43.
16. Wani, MY, Goswami TK, Mir RA, Chaudhuri P, **Dhama K** (2014). Moderation of immunopathological parameters by pravastatin in *Pasteurella multocida* (Pm52) induced septicemic mice. *International Journal of Pharmacology*. 9(8): 513-523.
17. Mohapatra, P, Swain RK, Mishra SK, Behera T, Swain P, Mishra SS, Behura NC, Sabat SC, Sethy K, **Dhama K** and Jayasankar P (2014). Effects of Dietary Nano-Selenium on Tissue Selenium Deposition, Antioxidant Status and Immune Functions in Layer Chicks. *Int. Journal of Pharmacology*, 10(3): 160-167.
18. Saminathan, M., Rai, RB, **Dhama K**, Jangir BL, Suresh S, Ranganath GJ, Inbaraj Sophia, Kuppasamy Karuppanasamy, Singaram Barathiraja and A. Gopalakrishnan (2014). Effect of *Morinda citrifolia* (Noni) Fruit Juice on Antioxidant, Hematological and Biochemical Parameters in N-Methyl-N-Nitrosourea (NMU) Induced Mammary Carcinogenesis in Sprague-Dawley Rats. *Int. Journal of Pharmacology*. 10(2): 109-119.
19. Karthik, K., Rathore R, Thomas P, Arun TR, Viswas KN, Agarwal RK, Manjunathachar HV and **Dhama K** (2014). Loop mediated isothermal amplification test for specific and rapid detection of *Brucella abortus* in cattle. *Veterinary Quarterly*, 34(4):174-9.
20. Ramees TP, Rathore RS, Bagalkot PS, Blessa Sailo, Mohan HV, Kumar A, **Dhama K** and Singh RK (2014). Genotyping and genetic diversity of *Arcobacter* spp. (*Arcobacter butzleri* and *Arcobacter cryaerophilus*) isolated from different sources by using ERIC-PCR from India. *Veterinary Quarterly*, 34(4): 211-217.
21. Das, A, Mishra SK, Swain RK, Sahoo G, Behura NC, Sethi K, Chichilichi B, Mishra SR, Behera T, **Dhama K** and Swain P (2014). Effects of organic minerals supplementation on growth, bioavailability and immunity in layer chicks. *International Journal of Pharmacology*. 10(5): 237-247.
22. Karthik, K., Rathore R, Thomas P, Arun TR, Viswas KN, **Dhama K**, Agarwal RK (2014). New closed tube Loop mediated isothermal amplification assay for prevention of product cross-contamination. *MethodsX*. 1: 137-143.
23. Das A, Mishra SK, Swain RK, Swain P, **Dhama K**, Sahoo G, Behura NC, Sethy K, Chichilichi B, Behera T and Mishra SR (2014). Effects of organic minerals supplementation on growth, bioavailability and immunity in grower birds. *Int J Pharmacology* 10(7): 380-388.
24. Wani MY, Goswami TK, Chaudhary D, Singh R, **Dhama K** (2014). Mitigation of Septic Signs by Pravastatin during LPS co-administered Hen-Egg White Lysozyme immunization in mice. *International Journal of Pharmacology*. 10(7): 389-397.
25. Pathak R, Amarpal, Tamilmahan P, **Dhama K**, and Sharma N (2014). Evaluation of *in vitro* efficacy of vitamin D<sub>3</sub> on the osteogenic differentiation and mineralization capabilities of fetal and adult osteoblasts of rabbit reflects therapeutic potential. *Int. J. Pharmacology*, 10(8): 440-450.
26. Farag MR, Alagawany MM and **K. Dhama** (2014). Antidotal effect of turmeric (*Curcuma longa*) against endosulfan-induced cytogenotoxicity and immunotoxicity in broiler chicks. *Int. J. Pharmacology* 10(8): 429-439.
27. Desingu, P.A., Singh SD, **Dhama K**, Kumar OR, Singh R and Singh RK (2014). Development of slide ELISA (SELISA) for detection of four poultry viral pathogens by direct heat fixation of viruses on glass slides *J. Virol. Methods*, 209:76-81.
28. Rahal, A., Kumar, A., Singh, V., Yadav, B., Tiwari, R., Chakraborty, S. and **Dhama, K.** (2014). Oxidative stress, prooxidants and antioxidants: the interplay. *BioMed Res. Int.* Volume 2014, Article ID 761264, 19 pages.
29. Singh U, R Deb, R R Alyethodi, Rani Alex, S Kumar, S Chakraborty, **K Dhama** and A Sharma (2014). Molecular markers and their application in cattle genetic research – A review. *Biomarkers and Genomic Medicine*, 6(2): 49-58.
30. Kumar, A., Rahal, A., Chakraborty, S., Verma, A.K. and **Dhama, K.** (2014). *Mycoplasma agalactiae*, an etiological agent of contagious agalactia in small ruminants: A Review. *Veterinary Medicine International*, Volume 2014, Article ID 286752, 13 pages.
31. Malik YS, Kumar, N, Sharma, K, Sircar, S, **Dhama K**, Bora, D.P., Dutta, T.K., Prasad, M., Tiwari, A.K. (2014). Rotavirus diarrhea in piglets: A review on epidemiology, genetic diversity and zoonotic risks. *Indian J. Anim. Sci.* 84(10): 1035-1042.
32. Malik YS, Kumar, N., Sharma, K., **Dhama K**, Shabbir, MZ, Balasubramanian, G., Kobayashi, N and Bányai, K (2014). Epidemiology, phylogeny and evolution of emerging enteric picobirnaviruses of animal origin and their relationship to human strains. *Biomed Research International*, Volume 2014, Article ID 780752, 13 pages <http://dx.doi.org/10.1155/2014/780752>
33. Chakraborty S, Kumar A, Tiwari R, Anu Rahal, YS Malik, **Dhama K**, Amarpal and Prasad M (2014). Advances in Diagnosis of respiratory diseases of small ruminants. *Veterinary Medicine International*. vol. 2014, Article ID 508304, 16 pages, 2014. doi:10.1155/2014/508304.
34. **Dhama, K.**, Tiwari, R, Chakraborty, S., Saminathan, M., Kumar, A., Karthik, K., Wani, MY, Amarpal, Singh, SV and Rahal, A (2014). Evidence based antibacterial potentials of medicinal plants and herbs countering bacterial pathogens especially in the era of emerging drug resistance: An integrated update. *Int. J. Pharmacology*, 10(1): 1-43.
35. **Dhama, K.**, Tiwari, R., Khan, RU, Chakraborty, S., Gopi, M, Karthik, K., Saminathan, M, Desingu PA and Sunkara, LT (2014). Growth promoters and novel feed additives improving poultry production and health, bioactive principles and beneficial applications: The trends and advances- A Review. *Int. J. Pharmacology* 10(3): 129-159.
36. Khan, RU, Naz, S and **Dhama, K.** (2014). Chromium: Pharmacological applications in heat-stressed poultry. *Int. J. Pharmacology*, 10(4): 213-217.

37. Khan, R.U., Naz, S., **Dhama, K.**, MSaminathan, Tiwari, R., Jeon, G.J., Laudadio, V. and Tufarelli, V. (2014). Modes of action and beneficial applications of chromium in poultry nutrition, production and health: A review. *Int J Pharmacology*. 10(7): 357-367.
38. Desingu, P.A., Singh SD, **Dhama K**, O.R. Vinodh Kumar, Singh R and Singh RK (2015). A rapid method of accurate detection and differentiation of Newcastle disease virus pathotypes by demonstrating multiple bands in degenerate primer based nested RT-PCR. *J. Virol. Methods*, 212: 47–52
39. Sawant PM, **Dhama K**, Rawool DB, Wani MY, Tiwari R, Singh SD and Singh RK (2015). Development of a DNA vaccine for chicken infectious anemia and its immunogenicity studies using high mobility group box 1 protein as a novel immunoadjuvant indicated induction of promising protective immune responses. *Vaccine*, 33: 333–340.
40. Singh SV, Singh PK, Kumar N, Gupta S, Chaubey KK, Singh B, Srivastav A, Yadav S, **Dhama K** (2015). Evaluation of goat based 'Indigenous vaccine' against bovine Johne's Disease in endemically infected native cattle herds. *Indian J Exp Biol.*, 53(1):16-24.
41. Garg R, Patil PK, Singh SV, Sharma S, Gandham RK, Singh AV, Filia G, Singh PK, Jayaraman S, Gupta S, Chaubey KK, Tiwari R, Saminathan M, **Dhama K**, Sohal JS (2015). Comparative evaluation of different test combinations for diagnosis of *Mycobacterium avium* subspecies *paratuberculosis* infecting dairy herds in India. *Biomed Research International*, Volume 2015, 2015:983978. doi: 10.1155/2015/983978. Epub 2015 Apr 5. Article ID 983978, 6 pages
42. Krishan G, Shukla SK, Bhatt P, Kumar R, Tiwari R, Malik YS and **Dhama K** (2015). Immunomodulatory and protective effects of a polyherbal formulation (Immon) against infectious anemia virus infection in broiler. *Int. J. Pharmacology* 11(5): 470-476.
43. Kattoor JJ, Malik YS, Sasidharan A, Rajan VM, **Dhama K**, Ghosh S, Bányai K, Kobayashi N, Singh RK. (2015). Analysis of codon usage pattern evolution in avian rotaviruses and their preferred host. *Infect Genet Evol.* 34:17-25.
44. Mohamed E. Abd El-Hack, Samir A. Mahgoub, Mahmoud Alagawany and **K Dhama** (2015). Influences of dietary supplementation of antimicrobial cold pressed oils mixture on growth performance and intestinal microflora of growing Japanese quails. *Int. J. Pharmacology*, 11(7): 689 – 696.
45. Gowthaman V, Singh S, **Dhama K**, Barathidasan R, Srinivasan P, Saravanan S, Gopalakrishnamurthy T, Deb R, Mathapati B, Ramakrishnan M. (2015). Detection and partial genetic characterisation of a novel variant of Avian nephritis virus in Indian poultry flocks showing diverse clinical signs. *Acta Vet Hung.*, 63(4):499-507.
46. Sadana, Tarun; Singh, Ran Vir; Singh Shoor Vir, Saxena, Vishesh Kumar; Sharma, Deepak; Singh, Pravin Kumar; Kumar, Naveen; Gupta, Saurabh; Chaubey, Kundan Kumar; Jayaraman, Sujata; Tiwari, Ruchi; **Dhama, Kuldeep**; Bhatia, Ashok Kumar; Sohal, Jagdip Singh (2015). Single nucleotide polymorphism of *SLC11A1*, *CARD15*, *IFNG* and *TLR2* genes and their association with *Mycobacterium avium* subspecies *paratuberculosis* infection in native Indian cattle population. *Indian Journal of Biotechnology*. 14(4): 469-475
47. Alagawany M, Farag MR, **Dhama, K.**, Mohamed E. Abd El-Hack, Ruchi Tiwari and Gazi Mahabubul Alam (2015). Mechanisms and beneficial applications of resveratrol as feed additive in animal and poultry nutrition: A review. *Int J Pharmacology*, 11(3): 213-221.
48. **Dhama, K.**, Latheef S.K. Saminathan Mani, Samad, H.A., Karthik K, Tiwari, T., Khan, R.U., Alagawany, M., Farag, M.R., Gazi Mahabubul Alam, Laudadio, V. and Tufarelli, V. (2015). Multiple beneficial applications and modes of action of herbs in poultry health and production – A review. *Int. J. Pharmacol.* 11(3): 152-176.
49. Laudadio V., Lorusso, V., Lastella, N.M.B., **Dhama, K.**, Karthik, K., Tiwari, R., Alam GA and Tufarelli, V. (2015). Enhancement of nutraceutical value of table eggs through poultry feeding strategies. *Int. J. Pharmacology*, 11(3): 201-212.
50. **Dhama, K.**, M. Kesavan, K. Karthik, Amarpal, R. Tiwari, Lakshmi T Sunkara and R.K. Singh (2015). Neuroimmunomodulation countering various diseases, disorders, infections, stress and aging. *Int. J. Pharmacol.*, 11(2): 76-94.
51. **Dhama K**, M Saminathan, SS Jacob, M. Singh, K Karthik, Amarpal, R Tiwari, LT Sunkara, YS Malik and RK Singh (2015). Effect of immunomodulation and immunomodulatory agents on health with some bioactive principles, modes of action and potent biomedical applications. *Int. J. Pharmacol.* 11(4): 253-290.
52. **Dhama, K.**, Malik, Y.S., Malik, S.V. and Singh, R.K. (2015). Ebola from emergence to epidemic: the virus and the disease, global preparedness and perspectives. *J Infect Dev Ctries*, 9(5):441-455
53. **Dhama K**, Saminathan M, Karthik K, Tiwari R, Shabbir MZ, Kumar N, Malik YS and Singh RK (2015). Avian rotavirus enteritis – an updated review. *Vet Quarterly*. 35(3):142-58.
54. **Dhama K**, Karthik K, Tiwari R, Shabbir MZ, Barbudhe S, Malik SV, Singh RK (2015). Listeriosis in animals, its public health significance (food-borne zoonosis) and advances in
55. Mohamed E. Abd El-Hack, Alagawany M, Farag MR, Tiwari R, Karthik K, **Dhama K**, Zorriehzahra J and Adel M (2016). Beneficial impacts of thymol essential oil on health and production of animals, fish and poultry: a review. *J Essential Oil Res*, 28: DOI: 10.1080/10412905.2016.1153002
56. Mayada Ragab Farag, Mahmoud Alagawany, Mohamed Ezzat Abd El-Hack and **Kuldeep Dhama** (2016). Nutritional and health aspects of spirulina (*Arthrospira*) for poultry, animal and human. *Int. J. Pharmacology*, 12(1): 36-51.
57. Mohanty, I., K. Arunvikram, D. Behera, A. Arun Prince Milton, G. Elaiyaraja, G. Rajesh and **K. Dhama** (2016). Immunomodulatory and therapeutic potential of zootoxins (venom and toxins) on the way towards designing and developing novel drugs/medicines : An overview. *Int. J. Pharmacology*, 12(2): 126-135.
58. Tiwari R, Karthik K, Rana R, Malik YS, **Dhama K** and Joshi SK (2016). Quorum Sensing Inhibitors/Antagonists Countering Food Spoilage Bacteria – Need Molecular and Pharmaceutical Intervention for Protecting Current issues of Food Safety. *Int. J. Pharmacology*, 12(3): 262-271.

59. Rifat Ullah Khan, Shabana Naz, **Kuldeep Dhama**, K. Karthik, Ruchi Tiwari, Mutassim M Abdelrahman, Ibrahim A Alhidary and Arshad Zahoor (2016). Direct-fed Microbial: Beneficial Applications, Modes of Action and Prospects as A Safe Tool for Enhancing Ruminant Production and Safeguarding Health *Int. J. Pharmacology* 12(3): 220-231.
60. Mohamed Ezzat Abd El-Hack, Mahmoud Alagawany, Mayada Ragab Farag, Ruchi Tiwari, Kumaragurubaran Karthik and **Kuldeep Dhama** (2016). Nutritional, Healthical and Therapeutic Efficacy of Black Cumin (*Nigella sativa*) in Animals, Poultry and Humans. *Int. J. Pharmacology* 12(3): 232-248.
61. Zorriehzahra MJ, Delshad ST, Adel M, Tiwari R, Karthik K, **Dhama K**, Lazado CC (2016). Probiotics as beneficial microbes in aquaculture: an update on their multiple modes of action: a review. *Veterinary Quarterly*, 2016 Apr 14:1-14. [Epub ahead of print].
62. Karthik, K., Rathore, R., Thomas, P., Viswas, K.N., Agarwal, R.K., Rekha V, Jagapur, R.V. and **Dhama, K.** (2016). Rapid and visual loop mediated isothermal amplification (LAMP) test for the detection of *Brucella* spp. and its applicability in epidemiology of bovine brucellosis. *Veterinarski Arhiv*, 86 (1), 35-47.
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## Awards /Recognitions/Honours at National & International Level recognition

Jun 2015	Best paper Award- "Recent approaches in diagnosis & control of mycobacterial infections with special reference to <i>M. avium</i> subsp. paratuberculosis" <i>Adv Anim Vet Sci.</i> 2(1S): 1-11.
May 2015	Best Paper Award "A perspective on applications of GIS; an advanced tracking tool for disease surveillance and monitoring in veterinary epidemiology" <i>Adv Anim Vet Sci.</i> 1(1): 14-24
Apr 2015	Best Paper Award for "One world, one health - veterinary perspectives", <i>Adv Anim Vet Sci.</i> 1(1): 5-13
Feb 2014	Best Oral Presentation Award (I position)- "Detection & differentiation of avirulent and virulent NDVs by RT-PCR combined with single RE digestion", 32nd Annual Convention of ISVM & International Symposium SKUA&T, Jammu, 14-16 Feb.
Dec 2013	Honoured as Chairman, Poster Session for judging Best Poster Paper Awards at IAVMI 2013 Conference at Lucknow
Dec 2013	Award: Best Poster Award (III Position) - "Evolutionary analysis of emerging enteric picobirnaviruses in bovine population of India" in National Symposium of IAVMI, Lucknow, Dec.
Dec 2013	Best Poster Award (I Position) - "LAMP test for specific detection of <i>B. abortus</i> ", National Symposium of IAVMI, Lucknow, Dec. 2014.
Nov 2013	Best Poster Award- "A Novel technique of NDV harvesting from allantoic fluid, swab & tissues (Haemadsorption PCR technique)", National Symposium of IPSA, 22-23 Nov. CARI, Izatnagar.
Nov 2013	Prof. S Ramachandran Memorial Award- Best Oral Presentation in Molecular oncology- "Evaluation of anti-cancerous activity of leaf extract of <i>M. citrifolia</i> in NMU induced mammary tumours in rats", IAVP Conf., Odisha, Nov 21-23
Nov 2013	Best Paper Award/Young Scientist Award -SKM Animal Feed & Food Ltd. by IAVP- "Molecular Epidemiology & Pathotyping of Indian Peafowl origin NDV Isolates" Odisha, Nov 21-23
Sep 2013	Best Poster Award -"Angioinvasive Aspergillosis in a Himalayan Griffon Vulture", Golden Jubilee Year Seminar of Div. of Pathology, IVRI, 6th Sept.
Sep 2013	Best Poster Award (I Position)- "Evaluation of anticancerous activity of <i>M. citrifolia</i> in NMU induced mammary tumours in rats", Golden Jubilee Year Seminar of Div. of Pathology, IVRI, 6th Sept.

Sep 2013 : Best Oral presentation Award- "Outbreak of IBD caused by vvIBDV in Layers, Golden Jubilee Year Seminar of Div. of Pathology, IVRI, 6th Sept.

Sep 2013 Best Oral Presentation Award- "Outbreak of vvIBDV in layers", Golden Jubilee Year Seminar of Div. of Pathology, IVRI, 6th Sept.

Jul 2013 Best Oral Presentation Award "Accelerated LAMP test for visual detection of Brucella spp", Int. Conf. on "Emerging & Transboundary Diseases of Global Importance", Tamil Nadu, 15-16th July 2013.

Apr 2013 Consolation Award - "Exacerbation of respiratory disease complex in poultry with special reference to LPAF", 13th Indian Vet Congress, Bangalore, 16-17 April

Mar 2013 Best Review Paper Award - "Plant based oral vaccines for human & animal pathogens – a new era of prophylaxis: Current & future perspectives" J. Exp. Biol. & Agri. Sci., 1(1): 1-12.

Nov 2012 Best Poster Presentation Award (I Position) : Dr. C. M. Singh Endowment Trust, CARI & IVRI

Nov 2012 Dr. C.M. Singh Best Poster Award (I Position) - "Development of DNA vaccine for chicken infectious anemia & its immunogenicity studies", Seminar at IVRI

Nov 2012 Dr. CM Singh Best Poster Award (II Position) - An innovative low input high profitable technological approach of IVRI for livelihood security & poverty alleviation". Seminar at IVRI

Nov 2012 Best Poster Presentation Award (II Position) : Dr. C. M. Singh Endowment Trust, CARI & IVRI

Apr 2011 Lyka Award

Jun 2010 Best Paper Presentation Award - Dr. C.M. Singh Endowment Trust & IAVP

May 2010 Best Paper Presentation Award - Bioved Research Society & U.P. Rajarshi Tandon Open University

Jan 2010 NAAS Associate (Young Scientist Recognition)

Oct 2008 Best Paper Award - INTAS Polivet

Sep 2008 Award: IVRI Best Student Award (PhD Gold Medal) to Student - Dr M Mahendran

Jul 2006 Best Poster Presentation Award - UP Livestock Development Board (UPLDB) & Cow Therapy Society

Aug 2005 Best Poster Presentation Award - IPSA

May 2005 Best Poster Presentation Award - DAHD/IAVMI

Apr 2005 Award: Best Poster Presentation Award - Society for Community Mobilization for Sustainable Development & IVRI, Izatnagar.

Oct 2004 Dr. C.M. Singh Best Research Paper Award - IAVMI

Oct 2004 Best Poster Presentation Award - IAVMI

Sep 2004 Best Poster Presentation Award - IPSA

May 2004 Best Oral Presentation Award - ISVM

Apr 2004 Best Poster Presentation Award - IAAVR

Aug 2003 Best Poster Presentation Award -IPSA

Jul 2003 Award: Best Poster Presentation Award - Commission for Sci. & Tech. Terminology, Min. of HRD; IVRI, Izatnagar & Dr. C.M. Singh Endowment Trust

Sep 2002 Best Student Award (Gold Medal) 2002 for Ph.D. - IVRI

Oct 2001 Dr. C.M. Singh Best Research Paper Award - IAVMI

Dec 1998 Dr. M.N. Menon Memorial Award / Medal - IVA

Mar 1995 Scholarship: Senior Research Fellowship (SRF) - DRDO

Oct 1994 National Eligibility Test (NET) Certificate (Vet. Microbiology) - ICAR

Sep 1992 Scholarship: Junior Research Fellowship (JRF) - IVRI

Jul 1992 B.V.Sc. & A.H. Degree with Hons.

Aug 1989 Scholarship: University Merit Scholarship - G.B. Pant Univ. of Agri. & Tech.

## Editorial Expertise

- Editor-in-Chief: Adv Anim Vet Sci., Asian J. Anim. Vet. Adv. (2014-16); Co-Editor-in-Chief- J. Exp. Biol. & Agri. Sci., Sci International. Editor: Indian J. Comp. Microbiol. Immunol. Infect. Dis. (2004-2011); J. Immunol. Immunopathol. (2007-2012). Regional Editor: Int. J. Pharmacology (2015-2016), J. Biol. Sci. (2015-2016), Pak J Biol Sci. (2015-2016), Asian J. Anim. Sci. (2015-2016); Member, Editorial Board: Vet. Quarterly (2015-2016), J. Exp. Biol. Agri. Sci., Res. Opin. Anim. Vet. Sc., Int. J. Current. Res., J. Microbiol. Microbial Res., Indian J. Field Veterinarians; Magazines: Poultry Technol., Liv. Technol., Poult. World.
- Referee/Reviewer: Vaccine, J. Virol. Methods, Immunology Letters, J. Microencapsulation, Transbound. Emerg. Dis., J. Vet. Med. Anim. Hlth, Int. Res. J. Microbiol., African J. Microbiol., J. Infectious Dis. & Immunity, J. Exp. Biol. Agri. Sci., Adv. Anim. Vet. Sci., Peak. J. Agri. Sci., Res. Opin. Anim. Vet. Sci., Virus Diseases, Haryana Veterinarian, J Anim Physiology & Anim Nutrition, Pak. J. Biol. Sci., J Applied Anim Res, Vet. Quarterly, Avian Pathology, Infection Genetics & Evolution. J. Infection in Developing Countries, Archives Animal Breeding, Indian J Exp Biol., Journal of Veterinary Medicine.

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Impact Factor Points: 175

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i10-index	68	67