

Dr. Kuldeep Dhama,

M.V.Sc., Ph.D. (Gold Medalist)

Principal Scientist



Division of Pathology

ICAR- Indian Veterinary Research Institute (IVRI)

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Education

Sep 1999 – Sep 2002 **Indian Veterinary Research Institute, Izatnagar, India**

Ph.D. (Gold Medal), Avian Diseases (Major);

Vety. Immunology & Vety. Virology (Minor)

Sep 1992 – Jul 1994 **Indian Veterinary Research Institute, Izatnagar, India**

M.V.Sc., Veterinary Immunology (Major); Veterinary Virology (Minor)

Aug 1987 – Jul 1992 **G. B. Pant University of Agriculture and Technology, Uttarkashi, India**

B.V.Sc. & A.H. (Hons.), Veterinary Sciences & Animal Husbandry

[Ph.D. (89%); M.V.Sc. (87%); B.V.Sc. & A.H. (Hons.) (88%)]

Thesis

Kuldeep Dhama: *Pathogenicity and Immunosuppressive effects of chicken infectious anaemia virus (CIAV) in chicks and evaluation of diagnostic tests for its detection.* Division of Pathology, Indian Veterinary Research Institute, 08/2002, Degree: Ph.D., Supervisor: Dr J.M. Kataria

Kuldeep Dhama: *Effects of Mycobacterium bovis BCG infection on various activities of blood monocytes and cytotoxic cells in bovines.* Division of Pathology, Indian Veterinary Research Institute, 06/1994, Degree: M.V.Sc., Supervisor: Dr M.P. Bansal

Research Experience: 20 years

Sep 1996 **Principal Scientist**

– Indian Veterinary Research Institute, Division of Pathology

Apr 2015 Izatnagar, Bareilly, India

Expert Field: Veterinary Microbiology, Immunology, Molecular Biology, Infectious Diseases

Projects Handled : 16 [As Principal Investigator: 03 ; As Co-Investigator : 13]

Diagnosis, Vaccine Development & Control of Important Infectious Pathogens of Animals (BHV-1, BTV, BRV, BCV, CAV, EDS-76, FPV, TPV, IBV, DPV, NDV, PRD, ARV, IBDV). Currently developing DNA vaccine & r-ELISA for CAV.

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
Diagnosis	Molecular Biology	Immunology	Immunoprophylaxis
Vaccine	Zoonosis	Epidemiology	Bacteria
Virus	Pathogens		

Skills & Activities

Skills PCR, Virus, Microbiology, Vaccines, Cell Culture, Fat, ELISA, Western Blotting, Immunoassay, Cloning, SNT, VNT, SDS-PAGE, Restriction Enzyme Analysis, Gel Electrophoresis, Vaccine Development, Diagnostic Methods, Computer Skills, Internet Applications, Editing, Writing Skills, Administration, Web Applications, Real-Time PCR, Veterinary Science, Immunology, Diagnosis, Biotechnology, Electrophoresis, Molecular Cloning, Flow Cytometry, Antibodies, Immunoassay Development, Monoclonal Antibodies, Western Blot Analysis, Antibody Discovery, Immunofluorescence, Infection, Pathogens, Antibiotics, Antigen, Public Health, Avian Influenza, Immunity, Immune Response, Vaccination, Poultry, Treatment, Cattle, Poultry Diseases, Immunomodulation, Molecular Biology, Therapeutics, Crop Production, Agriculture Research, Immunology of Infectious Diseases, Health

Languages English, Hindi

- Scientific* 1. Veterinary Council of India (VCI) (Registered Member)
- Professional* 2. U.P. Veterinary Council (UPVC) (Registered Member)
- Memberships* 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)
17. International Academy of Biosciences (IAB)

AWARDS / HONOURS / RECOGNITIONS

- **College & University Merit Certificates, University Merit Scholarship and B.V.Sc. & A.H. Degree with Hons. (1988-92)**
- **Gold Medal in PhD (2002)**
- **Guided 60 M.V.Sc./Ph.D. students as Advisor/Guide (14) / Co-advisor (46)**
(05 students guided as advisor are completed Ph.D./PDF in USA/UK and settled, 03 Appointed as Scientist/Asstt Professor, 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).**

- **45 Best Paper Awards of National & International Level recognition**

- Jun 2015* Best paper Award- "Recent approaches in diagnosis & control of mycobacterial infections with special reference to *M. avium* subsp. *paratuberculosis*" *Adv Anim Vet Sci.* 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" *Adv Anim Vet Sci.* 1(1): 14-24
- Apr 2015* Best Paper Award for "One world, one health - veterinary perspectives", *Adv Anim Vet Sci.* 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 *B. abortus*", 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 *M. citrifolia* 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 *M. citrifolia* 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 LPAI", 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.

Publication Highlights

PUBLICATIONS: 1137

Research & Review Papers	: 365	(200 in International Journals: <i>Vaccine, Transboundary & Emerg Dis., Biomed Res Int., Vet Res Commun. J. Gen. Virology, Trop Anim Hlth & 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, & others</i>)
Books	: 06	(03 International inclusive of 01 in Springer on Flu viruses)
Manuals/Souvenir	: 08	
Monographs	: 08	
Technical Bulletins	: 04	
Extension Folders	: 04	
E-publications	: 06	
Book Chapters	: 60	(32 in International Books)
Technical/	: 200	
Popular Articles		
Presentations (Abstracts/Papers)	: 305	(60 in International Conf./Symposium; 50 Lead/Invited Papers)
Gene Accession No.	: 171	

Books

1. Umesh Singh, Sushil Kumar, CS Mukhopadhyay, Rajib Deb, Rafeeqe Rahman Alyethodi, Rani Alex, Kuldeep Dhama: *Bioinformatic and Insilico tools for livestock genome analysis*. First edited by Umesh Singh, Sushil Kumar, CS Mukhopadhyay, Rajib Deb, Rafeeqe Rahman Alyethodi, Rani Alex, Kuldeep Dhama, Indrajit Ganguly, 01/2015; Satish Serial Publishing, DELHI, India., ISBN: In press
2. R. Somvanshi, K. Dhama: *Animal Cancers: Trends in Diagnosis, Treatment and Management*. First edited by R Somvanshi and K. Dhama, 01/2015; JP Publisher, New Delhi, India.
3. Sanjay Kapoor, Kuldeep Dhama: *Insight into Influenza Viruses of Animals and Humans*. Edited by Sanjay Kapoor and Kuldeep Dhama, 04/2014; Springer International Publishing Switzerland., ISBN: 978-3-319-05512-1
4. Habtamu Tassew, Rajesh Rathore, Kuldeep Dhama: *Molecular Characterization of Brucella Mellitensis Omp31 Gene*. 05/2012; LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Germany., ISBN: 978-3-659-12045-9
5. Ruchi Tiwari, Sadanand Devidas Hirpurkar, Kuldeep Dhama: *Therapeutic Potential of Bacteriophages against Pathogenic Bacteria*. 01/2012; LAP LAMBERT Academic Publishing, AV Akademikerverlag GmbH & Co. KG, Germany., ISBN: 978-3-659-30384-5
6. R.S. Chauhan, K. Dhama: *Aflatoxicosis in animals and its public health significance*. Edited by R.S. Chauhan and K. Dhama, 01/2008; Int. Book Distributing Co. (IBDC), Lucknow (UP), India.
7. JM Kataria, K Dhama, BB Dash, SD Singh, R Somvanshi, SA Sylvester: *“Emerging Poultry diseases: their diagnosis and control using molecular biology techniques”*. Training Manual edited by JM Kataria, K Dhama, BB Dash, SD Singh, R Somvanshi, SA Sylvester, 01/2004; IVRI, Izatnagar, India.
8. JM Kataria, SD Singh, K Dhama, KC Verma: *Poultry disease diagnosis*. Laboratory Manual edited by JM Kataria, SD Singh, K Dhama, KC Verma, 01/2001; IVRI Publications, Izatnagar, India.

Book Chapters

1. Mathew T, Dhama K: *Plants and Herbs for the Treatment of Cancer and Tumors in Human and Animals..* Animal Cancers: Trends in Diagnosis, Treatment and Management, Edited by R Somvanshi, K Dhama, 01/2015: chapter 23: pages 206-221; Jaypee Brothers, Medical Publishers (P) Ltd., New Delhi, India.
2. SD Singh, BB Dash, K Dhama: *Viral Induced Oncogenic Diseases of Poultry with Particular Reference to Avian Leukosis and Marek's Disease.* Animal Cancers: Trends in Diagnosis, Treatment and Management, Edited by R Somvanshi, K Dhama, 01/2015: chapter 11: pages 97-107; Jaypee Brothers, Medical Publishers (P) Ltd., New Delhi, India.
3. S Kapoor, K Dhama, YP Grover: *Hendra Virus Infections..* Zoonoses Viral, Rickettsial and Prion Diseases, Edited by Prof SR Garg, 01/2014: chapter 17: pages 217-236; Daya Publishing House, Astral International Pvt. Ltd. New Delhi., ISBN: 9789351242703
4. K Dhama, S. Rajagunalan, R. Tiwari, S. Kapoor: *Campylobacteriosis.* Zoonoses: Bacterial Diseases, Edited by Prof. SR Garg, 01/2014: chapter Campylobacteriosis: pages 187-209; Daya Publishing House, Astral International Pvt. Ltd., ISBN: 9789351242703
5. K. Dhama, P.M. Sawant, R. Tiwari, Senthilkumar N: *Lyme Disease.* Zoonoses: Bacterial Diseases, Edited by Prof. SR Garg, 01/2014: chapter Lyme Disease: pages 335-353; Daya Publishing House, Astral International Pvt. Ltd., ISBN: 9789351242703
6. K. Dhama, R. Tiwari, M. Yaqoob Wani, S. Natesan: *Bacterial Zoonoses Associated with Poultry..* Zoonoses : Bacterial Diseases, Edited by Prof. SR Garg, 01/2014: chapter Bacterial Zoonoses Associated with Poultry.: pages 417-435.; Daya Publishing House, Astral International Pvt. Ltd., ISBN: 9789351242703
7. Kuldeep Dhama, Mohd. Yaqoob Wani, Ruchi Tiwari, Senthilkumar Natesan: *Erysipeloid.* Zoonoses: Bacterial Diseases, Edited by Prof. SR Garg, 01/2014: chapter Erysipeloid: pages 264-280; Daya Publishing House, Astral International Pvt. Ltd., ISBN: 9789351242703
8. K Dhama, PM Sawant, MY Wani, SD Singh: *Chicken Infectious Anaemia: Diagnosis and Control..* Veterinary Diagnostics: Current Trends, Edited by RP Gupta, SR Garg, Vikas Nehra, Deepika Lather, 01/2013: chapter Chapter 34: pages 555-571; Satish Serial publishing House, Delhi., ISBN: 978-93-81226-49-0
9. RS Rathore, AK Verma, S Rajagunalan, K Dhama: *Trends in Campylobacter Diagnosis.* Veterinary Diagnostics: Current Trends, Edited by RP Gupta, SR Garg, et al. 01/2013: chapter 19: pages 321-339; Satish Serial publishing House, Delhi., ISBN: 978-93-81226-49-0
10. Deb R, Chakraborty S, Singh U, Kumar S, Panwar PK, Dhama K: *Genomic organization and comparative analysis of the genome of domesticated animals and poultry..* Agricultural Research Updates, Edited by Gorawala P, Mandhatri S, 01/2013: pages 229-246; , ISBN: 978-1-62948-377-1.
11. R.S. Chauhan, K. Dhama, M. Mahendran: *Other viral diseases of camel.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 6 (SECTION D): pages 737-747; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
12. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel rinderpest.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 6 (SECTION D): pages 735-736; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
13. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel Rift valley fever.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 5 (SECTION D): pages 733-734; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
14. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel rabies.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 4 (SECTION D): pages 730-732; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
15. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel papillomatosis.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 3 (SECTION D): pages 726-729; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
16. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel contagious pustular dermatitis.* Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology,

- Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 2 (SECTION D): pages 722-725; Xlibris Book Publishing Company, UK., ISBN: 978-1-4415-8160-0
17. R.S. Chauhan, K. Dhama, M. Mahendran: *Camel pox*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 1 (SECTION D): pages 713-721; Xlibris Book Publishing Company, Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 18. K. Dhama, M. Mahendran, S. Nandi: *Swine rotavirus infection*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 11 (Section C): pages 677-686.; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 19. Thankam Mathew, K. Dhama, H. Kothalawala, E. Gruys, Mahendran M: *Swine influenza*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 9 (Section C): pages 641-667.; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 20. K. Dhama, R.V.S. Pawaiya, S. Kapoor, Thankam Mathew: *West Nile virus infection in horses*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 20 (Section A): pages 372-392; Xlibris Corporation, UK, ISBN: 978-1-4415-8160-0
 21. K. Dhama, M. Mahendran, S. Kapoor, R.V.S. Pawaiya: *Rotavirus diarrhea in equines*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 19 (Section A): pages 356-371; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 22. R.V.S. Pawaiya, K. Dhama, P. Bhatt, S. Kapoor: *Louping ill in horses*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 18 (Section A): pages 345-355; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 23. R.V.S. Pawaiya, K. Dhama, S. Kapoor, M. Mahendran, Thankam Mathew: *Japanese encephalitis in horses*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 17 (Section A): pages 322-344; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 24. K. Dhama, P. Bhatt, R.V.S. Pawaiya, S. Kapoor, Thankam Mathew: *Horse pox*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 16 (Section A): pages 309-321; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 25. K. Dhama, R.V.S. Pawaiya, S. Kapoor: *Hendra virus infection in horses*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 15 (Section A): pages 292-308; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 26. K. Dhama, P. Bhatt, R.V.S. Pawaiya, M. Mahendran: *Getah virus infection*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 14 (Section A): pages 279-291; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 27. R.V.S. Pawaiya, K. Dhama, S. Kapoor, D.K. Gupta: *Equine vesicular stomatitis*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 13 (Section A): pages 261-278; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 28. S. Kapoor, K. Dhama, M. Mahendran, R.V.S. Pawaiya: *Equine viral arteritis*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 12 (Section A): pages 240-260; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 29. S. Kapoor, K. Dhama, R.V.S. Pawaiya, P. Bhatt: *Equine rhinovirus / rhinitis virus*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 11 (Section A): pages 224-239; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
 30. R.V.S. Pawaiya, K. Dhama, S. Kapoor, M. Mahendran: *Equine rabies*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 10 (Section A): pages 200-223; Xlibris Corporation, UK., ISBN: 978-1-4415-8160-0

31. R.V.S. Pawaiya, K. Dhama, S. Kapoor, D.K. Gupta: *Equine papillomatosis*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 9 (Section A): pages 173-199; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
32. K. Dhama, R.V.S. Pawaiya, P. Bhatt, S. Kapoor: *Equine infectious anemia*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 8 (Section A): pages 152-172; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
33. Thankam Mathew, K. Dhama, R.V.S. Pawaiya, M. Mahendran: *Equine influenza*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 7 (Section A): pages 133-151; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
34. S. Kapoor, K. Dhama, R.V.S. Pawaiya, Thankam Mathew: *Equine herpesviruses*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 6 (Section A): pages 110-132; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
35. S. Kapoor, K. Dhama, R.V.S. Pawaiya, M. Mahendran, Thankam Mathew: *Eastern, Western and Venezuelan equine encephalomyelitis*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 5 (Section A): pages 90-109; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
36. S. Kapoor, K. Dhama, R.V.S. Pawaiya, P. Bhatt: *Equine coital exanthema*. Tropical Viral Diseases of Large Domestic Animals- Part 1, Advances in Medical and Veterinary Virology, Immunology, and Epidemiology- Vol. 7 edited by Thankam Mathew, 01/2010: chapter Chapter 4 (Section A): pages 77-89; Xlibris Corporation, United Kingdom., ISBN: 978-1-4415-8160-0
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