



I. Name: Dr B M CHANDRANAİK

Date of Birth: 11.06.1977

Designation: Assistant Professor of Veterinary Microbiology

University: Institute of Animal Health and Veterinary Biologicals, KVAFSU, Bangalore

II. Educational Qualifications

Qualification	Year of Passing	University
B.V.Sc& A.H	2000	University of Agricultural Sciences (GKVK), Bangalore, Karnataka
M.V.Sc., (Veterinary Microbiology)	2002	University of Agricultural Sciences, Dharwad, Karnataka
Ph.D., (Veterinary Microbiology)	2013	Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar, Karnataka
Post-Doctoral (Molecular Immunology)	2018 2019	University of Wisconsin, Madison, USA

III. Work Experience

Worked as	Place of work	Duration
Research Associate	ICAR- Project Directorate on Animal Disease Monitoring and Surveillance, Bangalore-24	05.10.2002 to 13.07.2003
Assistant Professor	Institute of Animal Health and Veterinary Biologicals, KVAFSU, Bangalore 24	14.07.2003 To <i>Date</i>

VI. Select Publications

1. B M Chandranaik, A Shah, V Manjunath, K Shylaja, D Rathnamma, A Rizwan, 2022 Isolation, characterization and drug sensitivity of Mycobacterium tuberculosis in captive Sloth bears (*Melursus ursinus*): Unnatural habitat with human environment may ... *Frontiers in Veterinary Science*, <https://doi.org/10.3389/fvets.2022.844208>
2. B M Chandranaik, BKingstad-Bakke, W Lee, M Hatta, M Sonsalla, M Suresh. 2020. Programming Multifaceted Pulmonary T-Cell Immunity by Combination Adjuvants. *Cell Reports Medicine* 19-00054. <https://doi.org/10.1016/j.xcrm.2020.100095>
3. W Lee, B Kingstad-Bakke, B Paulson, A Larsen, K Overmyer, BM Chandranaik, et al, 2021. Carbomer-based adjuvant elicits CD8 T-cell immunity by inducing a distinct metabolic state in cross-presenting dendritic cells. *PLoS Pathogens* 17 (1), e1009168

4. Brock Kingstad-Bakke, R Toy, W Lee, P Pradhan, G Vogel, B M Chandranik, L Autumn ,Y.Kawaoka, K Roy and M Suresh, 2021. Polymeric Pathogen-like Particles-Based Combination Adjuvants Elicit Potent Mucosal T Cell Immunity to Influenza A Virus. *Frontiers in Immunology*.doi: 10.3389/fimmu.2020.559382
5. W Lee, A Larsen, B Bakke, BM Chandranaik, M Suresh. 2021. Combination Adjuvants Affect the Magnitude of Effector-Like Memory CD8 T Cells and Protection against Listeriosis. *Infection and Immunity* 89(7). <https://doi.org/10.1128/IAI.00768-20>
6. B.M Chandranaik, M.DVenkateshaAmitha Gomes et al., 2018 Isolation and molecular characterization of zoonotic Buffalopox virus from skin lesions of humans in India.*International Journal of Dermatology*. 57 (5): 590-592
7. B M Chandranaik, S M Byregowda, M D Venkatesha, et al., 2018 Virus isolation and molecular epidemiology of Highly Pathogenic Avian Influenza A(H5N8) from an outbreak in free-ranging wild birds, India. *European Journal of Wildlife Research*. 64:1-4
8. B M.Chandranaik, B. P.Shivashankar, P Giridhar, S M Byregowda 2017 Mycobacterium tuberculosis infection in free-roaming Wild Asian elephant. *Emerging Infectious Diseases*. 23(3):557-559
9. B.M.Chandranaik, B. P. Shivashankar, et al., 2016 Molecular characterisation and serotyping of Pasteurella multocida isolates from Asiatic elephants (Elephas maximus).*European Journal of Wildlife Research*. 62:681–685
10. B. M. Chandranaik , et al. 2015 Serotyping of Foot and Mouth Disease virus and Pasteurellamultocida from Indian gaurs (Bos gaurus), concurrently infected with Foot and Mouth Disease and Haemorrhagicsepticaemia. *Tropical Animal Health and Production*. 47:933-937
11. B. M. Chandranaik, Giridhar P, Hegde R., et al.,. 2015 Bacillus cereus harboring pXO1 plasmid with pag gene causes anthrax like fatal septicemia in immunosuppressed Cattle. *Veterinary Archives*. 85(3): 347-357.
12. B.M. Chandranaik, D.Rathnamma, S.S. Patil, S. Isloor, C.Renukaprasad.2013.Development of a Taqman probe based real time PCR for diagnosis of Bovine herpes virus-1 in semen and other clinical samples *Virus disease*. 24(1): 16-26
13. B. M. Chandranaik, R.K.Singh, M.Hosamani, G. Krishnappa, C. Renukaprasad 2012 Comparative sequence analysis of B5R gene of zoonotic buffalo pox virus isolates with other Orthopox viruses. *Tropical Animal Health and Production* 43:287-290.
14. BM Chandranaik, S Chethana, S Kumar, C Renukaprasad. 2010. Isolation of BHV-1 from bovine semen and application of real time PCR for diagnosis of IBR/IPV from clinical samples.*Veterinarski Arhiv*.80 (4), 467-47

V. Recent papers presented during conferences

1. Molecular mechanisms of Combination adjuvants Adjuvax, CpG and GLA. (2018) **B.M Chandranaik** and Suresh M. Paper presented during the annual convention of *Molecular Mechanisms of Adjuvants*, Held at NIAH, Bethesda, USA in 2018
2. Role of NFκB signaling in Respiratory Epithelial Cells in Vaccine-Induced T Cell Immunity to Influenza; TNK Luu, B Kingstad-Bakke, **BM Chandranaik**, AR Larsen, MR Suresh.(2020).*The Journal of Immunology* 204 (1 Supplement), 234.21-234.21, Paper presented during Annual conference of American Association of Immunologists-2020 held at Hawaii, USA.
3. Programming effective respiratory immunity to influenza with combination microparticle adjuvants. B Bakke, **BM Chandranaik**, R Toy, A Larsen, W Lee, Y Kawaoka, K Roy, Suresh M.(2020). *The Journal of Immunology* 204 (1 supplement), 166.29-166.29. Paper presented during Annual conference of American Association of Immunologists-2020 held at Hawaii, USA.

VI. Patents

Awarded Govt of India Patent (Patent No.292138) for inventing a diagnostic kit for Bovine herpesvirus-1.

VIII. Awards /Fellowships Received

1. Received '**Post-Doctoral Research Fellowship**' from **University of Wisconsin-Madison USA**, for Post-doctoral research in Molecular Immunology at University of Wisconsin, USA, for the years 2018 and 2019
2. **Recipient of Jawaharlal Nehru Award for the 'Outstanding Doctoral Thesis Research in India-2013'** awarded by Indian Council of Agricultural Research (ICAR), Govt. of India.
3. **University Gold Medal** from Agricultural Sciences (UAS) and **University Gold Medal** from Karnataka Veterinary Animal and Fisheries Sciences University (KVAFSU) Bidar for academic excellences
4. Received the '**Best Research Paper Award--2023 of Govt of Karnataka**' from Vision Group on Science and Technology (VGST) headed by Bharatha Ratna Prof CNR Rao award instituted by Dept of science and Technology Govt of Karnataka . The award was selected by
5. Received Indian Council of Agriculture Research **Junior Research Fellowship (ICAR-JRF)** for pursuing MVSc during the years 2000 to 2002
6. Have been nominated as **Member of the National Advisory Committee** of Dept. of Biotechnology Govt. of India "Star College Scheme" from years 2021 to 2023.
7. **Member of the WHO expert committee** on Diagnosis of Avian Influenza in reference laboratories in India.

8. Certificate of Appreciation by Govt. of Karnataka for significant **contributions for ‘Eradication of Rinderpest in the state of Karnataka’**
9. **Dr. M.N. Kulakarni memorial Young Scientist Award-2011** by Indian Association of Veterinary Microbiology Immunology and Infectious Diseases for the research “ Molecular Epidemiology of Bovine Herpesvirus-1 and Development of TaqMan Realtime PCR based antigen detection kit for Bovine herpesvirus-1 in clinical samples”
10. **Dr Balwant Singh Memorial Young Scientist award-2017**, by Indian Association for Veterinary Pathologists, for the research “Systemic infection in contagious ecthyma in Sheep and Goats”
11. **Convocation award** form Karnataka Veterinary Animal and Fisheries Sciences University (KVAFSU) in recognition of the Research work “Development of classical swine fever vaccine”
12. **Received Five best oral presentation awards and four Best poster Presentation Awards** at various national and international conferences

XI. List of Externally funded projects carried out by Dr BM Chandrnaik of IAHVB

Sl No	Title of the project	Role Of Dr BM Chandranaik	Funding agency	Project Cost (Lakhs)	Project Years
1.	Development of adjuvanted Kyasanur Forest Disease Vaccine	Principal Investigator	Dept of Science and Technology, VGST Govt of Karantaka	30.00	2023 to 2025
2.	Evaluation of glycoprotein E gE deleted Bovine herpesvirus-1 BoHV-1 as infectious bovine rhinotracheitis IBR Marker vaccine candidate in Cattle	Principal Investigator	Dept of Biotechnology Govt of India	50.60 lakhs	2019 To 2022
3.	Monitoring of quality of water in major waterholes in Bandipur and Nagrahole forests	Principal Investigator	Dept of Forests and Environment, Govt. of India.	3.47 lakhs	2015 2016
4.	Screening of elephants for tuberculosis by tuberculin test and PCR	Principal Investigator	Dept of Forests and Environment, Govt. of India.	6.53 lakhs	2015 2016
5.	Safety testing of <i>Helicoverpaarmigera</i> and <i>Spodopteralutira</i> Baculo viruses in cell culture system	Principal Investigator	Multiplex Biotech Pvt Ltd. Bangalore	0.50 lakhs	2007 2008
6.	Evaluation of DNA vaccine against Tuberculosis	Co -Investigator	Govt. of India. Dept of Biotechnology	23.55 lakhs	2006 to 2009
7.	Development evaluation of HS and ET Biofilm vaccines	Co -Investigator	Watershed Dept. Govt. of Karnataka.	5.00 lakhs	2004 to 2006
8.	Virucidal and broad spectrum antibacterial testing of a herbal formaulation	Co-Investigator	Reva University Bangalore	0.50 lakhs	2020

