

Brief biodata for website: Lata Jain

Joined the Agricultural Research Services as scientist in February, 2008 and posted at Indian Veterinary Research Institute, Izatnagar and presently posted at National Institute of Biotic Stress Management, Raipur w.e.f. August, 2014. **Major Research achievements** are Standardization & Quality control of poultry vaccines like Ranikhet/Newcastle disease, Infectious bursal disease, Fowl pox, Infectious bronchitis, Inclusion body hepatitis, Chicken infectious anaemia, Marek's disease, Salmonellosis, Infectious coryza and Combined poultry vaccines as per Drug and Cosmetic Act 1940 and Indian Pharmacopoeia; Propagation and maintenance of virulent and vaccine strains of poultry viruses like New castle disease virus, Fowl pox virus, Infectious bursal disease virus, Infectious bronchitis virus, Inclusion body hepatitis virus, Chicken infectious anaemia virus, and Marek's disease virus; Propagation and maintenance of virulent and vaccine strains of poultry viruses; Development of methodology of phage lysate preparation as potent vaccine candidate against brucellosis in bovines and immune response and protective efficacy study of *Brucella abortus* S19 phage lysate (Plain and alum gel adjuvanted) in mice and guinea pig model by direct virulent challenge with strain 544; Evaluation of adjuvant potential of Resiquimod (R-848), an imidazoquinoline compound, with inactivated New castle disease vaccine in specific pathogen free (SPF) chicken; Isolation of Bacteriophage against *Xanthomonas oryzae pv. Oryzae*, *Brucella abortus*, *Salmonella Abortusequi*, *S. Pullorum*, *S. Gallinarum*, *S. Typhimurium* and *Pastuerella multocida*; Development of national standards of epsilon toxin and epsilon antitoxin for potency testing of enterotoxaemia vaccine; Development of standard hyperimmune sera for potency testing of inactivated New castle disease vaccine; Seroprevalence and PCR based detection of Infectious bovine rhinotracheitis and Brucellosis, Leptospirosis, Blue tongue disease, Q fever and Haemorrhagic septicemia; Isolation and identification of microbes of veterinary importance; Isolation and identification of bacterial endophytes from different crops like, pigeon pea, lathyrus and rice and exploring their potential antagonistic activities and plant growth promotion activities; Isolation and identification of *Bacillus thuringiensis* as potential candidate for evaluation of bio-control efficiency for management lepidopteran pests of agriculturally important crops. **Current research area** are Immune-diagnostics; Vaccinology; Bacteriophage and its use as immune-diagnostics and immuno-therapeutics; Monitoring, serosurveillance, molecular epidemiology, isolation and diagnosis of Brucellosis, Infectious bovine rhinotracheitis, leptospirosis, Q - fever and Blue tongue disease; culture dependent and culture independent metagenomic approach for identification of plant endophytes as biocontrol agents; isolation and identification of *Bacillus thuringiensis* for biocontrol of lepidopteran pests; isolation and identification of bacteriophages for therapy of plant diseases. Published **21 research papers** (International-10; National-11) having 123 citations with **h-index 6 and i10- index 5**. Conferred with **IAAVR Merit Award-2017; Dr. D.R. Uppal award** for the academic year 2014-15 for the best PhD thesis during 9th convocation at IVRI, Izatnagar; **Women Scientist Award-2019; ICAR Junior Research Fellowship** in 2004; **CSIR- UGC Junior Research Fellowship and National Eligibility Test (N.E.T.)** in Life Sciences in 2007; and couple of **Best oral and poster presentation awards**

Research gate Link: https://www.researchgate.net/profile/Lata_Jain3

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