



## Dr. R. J. Zende

Professor, University Head and PI, NAHEP-CAAST  
Department of Veterinary Public Health  
Mumbai Veterinary College  
Parel, Mumbai-12

### PROFILE

To conduct teaching, research and extension in the Veterinary Public Health for the betterment of the society and well being of the human and animal health through the co-ordinated approach.

### CONTACT

PHONE:

9969625744

Email:

[ravindrazende@gmail.com](mailto:ravindrazende@gmail.com)

[ravindrazende@mvc.ac.in](mailto:ravindrazende@mvc.ac.in)

### PUBLICATIONS

Research Papers : 82  
Technical (ABSTRACTS) : 158  
Lead Papers : 24  
Book Chapter : 21  
Audio-Visual Aids Developed : 03  
Pamphlets/Booklets Published : 12

PATENT FILLED : 04

AWARDS AND HONOURS : 17

POSTGRADUATE STUDENTS  
GUIDED : 21

TRAINING PROGRAMME  
ATTENDED : 26

TRAINING PROGRAMME  
ORGANISED : 18

TECHNOLOGY DEVELOPED : 10

TECHNOLOGY  
COMMERCIALISED : 06

RADIO PROGRAMS : 10

TELEVISION PROGRAMS : 03

### EDUCATION

**Konkan Krishi Vidyapeeth, Dhapoli, Distt. Ratnagiri, Maharashtra**  
Bombay Veterinary College, Parel, Mumbai 400 012  
B.V.Sc. & A.H. (1988 – 1993)

**Konkan Krishi Vidyapeeth, Dhapoli, Distt. Ratnagiri, Maharashtra**  
Bombay Veterinary College, Parel, Mumbai 400 012  
M.V.Sc. (1994 – 1996)  
Department of Food Hygiene and Public Health

**Maharashtra Animal and Fishery Sciences University, Nagpur**  
Ph.D (2009)  
Department of Veterinary Public Health

### TEACHING EXPERIENCE

**Assistant Professor, Department of Veterinary Public Health**  
December, 1998 – March, 2008  
Mumbai Veterinary College, Parel, Mumbai - 400 012

**Associate Professor, Department of Veterinary Public Health**  
March, 2008 - March, 2014  
Mumbai Veterinary College, Parel, Mumbai - 400 012

**Professor and University Head, Department of Veterinary Public Health**  
March, 2014 to till date  
Mumbai Veterinary College, Parel, Mumbai - 400 012

*Teaching, Research & Extension in the field of Veterinary Public Health*

### PROFESSIONAL EXPERIENCE

**Veterinarians (Quality Control)**  
November, 1995 to July, 1996  
Mafco Bacon Factory, Borivali, Mumbai, Govt of Maharashtra Enterprise

**Assistant Manager, Quality Control**  
July, 1996 to September, 1997  
Hind Agro Industries Ltd, Aligarh, UP, Govt of Uttar Pradesh Joint Venture

**Quality Control Manager**  
October, 1997 to November, 1998  
Pan Foods Limited, Panipat, Haryana.

## EXPERIENCE AND FUNDINGS GENERATED

### Completed Research Projects as Principal Investigator

1. Microbial Risk Assessment And Shelf Life Evaluation Of Table Eggs With Respect Food Borne Salmonellosis and Evaluation Of Shelf Life and Microbial Safety Of Sanitized Eggs, sponsored by vista processed foods PVT Ltd. Talaja, Distt. Raigad during 2008-2011 (Total outlay Rs. 3.74 lakhs).
2. Assessment Of Microbial and Physico-Chemical Quality Of Emu Meat At Ambient and Refrigeration Storage, sponsored by Indo-Emu products, Mashavi, Gadhav Wadi road, Mashavi, Devgad, Distt. Raigad during 2011-2012 (Total outlay Rs. 1.30 lakhs).
3. Studies On Keeping Quality Of Hard Boiled Eggs Packed Under MAP and Stored Under Refrigeration Temperature, sponsored by Vista Processed Foods PVT Ltd. Talaja, Dist. Raigad during 2012-2014 (Total outlay Rs. 2.78 lakhs).
4. Assessment Of Harvest and Post-Harvest Losses Of Major Crops and Commodities In India (ICAR MoFPI PROJECT), sponsored by Ministry Of Food Processing Industry, Govt of India during 2012 to 2014 (Total outlay Rs.13.40 lakhs).
5. Modified Atmosphere Packaging Of Meat And Meat Products For Export, sponsored by Indian Institute of Packaging, Mumbai and APEDA, New Delhi in the 2013-2014 (Total outlay Rs. 18.26 lakhs).
6. Risk Assessment Of Salmonella Spp. in Chicken Meat Production, sponsored by Vista Processed Foods PVT Ltd. Talaja, Distt. Raigad in the 2015-2018 (Total outlay Rs.1.88 lakhs).

### Research Projects completed as Co-Principal Investigator

1. Quality Assurance and Monitoring Of Foods From Livestock and Poultry, sponsored by ICAR, and World bank funded NATP (MM Mode) project during 1.11.1999 to 31.12.2003 (**Total outlay Rs. 209.00 lakhs**).
2. Establishment Of Western Region Referral Laboratory For Meat and Meat Products Quality Standards, sponsored by ICAR and World bank funded NATP (ToE mode) during 01.03.2003 to 31.12.2004 (**Total outlay Rs. Rs.285.00 lakhs**).
3. Detection Of Pesticide Residues In Animal Products, sponsored by ICAR during 1.11.2005 to 31.10.2008 (**Total outlay Rs. 23.95 lakhs**).

## Research subproject completed under ICAR sponsored AICRP on PHET as

### Principal Investigator

1. Establishment and demonstration of model retail outlet for hygienic production of chicken.
2. Development of Techniques for preparation bile concentrate and separation of acids and salts from bile and tissues.
3. Development of pet treats from buffalo slaughter house waste.
4. Preservation and handling techniques for porcine skin for production of biological bandages.
5. Adoptive Trials and Popularization/Commercialization of Model Retail Outlet for Production of Hygienic Chicken Meat.
6. Detection of Food-borne Pathogens by LAMP (Loop Mediated Isothermal Amplification) Technology.
7. Development and Standardization of a Process Protocol for Extraction of Chondroitin Sulphate from Buffalo Cartilage.
8. Development and standardization of a Process Protocol for Extraction of Collagen from Animal and Poultry.
9. Use of electron beam processing for shelf-life extension of meat products.
10. Use of electron beam processing for shelf-life extension of MAP packaged meat and meat products.

### Handling successfully Ongoing Research Projects as Principal Investigator

1. All India Co-Ordinated Project On Post Harvest Engineering and Technology, sponsored by ICAR since 2009 (**Total outlay RS. 446.30 lakhs**).
2. Monitoring Of Pesticide Residues At National Level, sponsored by ICAR, since 2006 (**Total outlay RS. 205.00 lakhs**).
3. World Bank Sponsored ICAR-NAHEP-CAAST-MAFSU project on Centre Of Excellence For Advanced Research On Animal Food Safety since March 2020 (**Total outlay Rs 1805.00 Lakhs**).

### Handling successfully Ongoing Research Project as Co-PI

1. Outreach Program On Zoonotic Disease, sponsored by ICAR, since 2009 (**Total outlay Rs. 91.70 lakhs**).

### RESEARCH PAPERS (82)

1. *Bacteriological assessment of pig carcass sites during the slaughtering process.* , Kadam A.B., Waskar V.S., Paturkar A.M., & **Zende R.J.** , *Indian J. Ani. Sci.* , 2005, 75(2) 185-189.
2. *Anti-microbial drug residues in meat and their public health significance-a review (Review article)* , Paturkar A.M., Waskar V.S., Mokal K.V. & **Zende R.J.** , *Indian J. Ani. Sci.* , 2005, 75(9) 1103-111.
3. *A comparison of microbial contamination on sheep/goat carcasses in a modern Indian abattoir and traditional meat shops*, Bhandare S.G., Sherikar A.T., Paturkar A.M., Waskar V.S., **Zende R.J.** , *Food control* , 2007, 18(7), 854–858.

4. Comparison of pathogenic microorganisms on poultry carcasses in organized slaughterhouse and retail outlet in and around Mumbai city , Vaidya V.M., Paturkar A.M., Sherikar A.T., Waskar V.S., **Zende R.J.**, Dubal Z. B , J. Muscle foods , 2010,21 197-209 , **(5.0)**
5. Studies on prevalence, antigenic characterization of hydatidosis and its economic impact on cattle and buffalo meat production, P.S. Ghodake, A.M. Paturkar, **R.J. Zende** and V.M. Vaidya , Journal of Foodborne and Zoonotic diseases , 2014 2(4) :68-71,
6. Presence of a widely disseminated *Listeria monocytogenes* serotype 4b clone in India , S B Barbuddhe, S P Dojjad, Al Goesmann, R Hilker, K V Poharkar, D B Rawool, N V Kurkure, D R Kalorey, S S Malik, I Shakuntala, S Chaudhari, V S Waskar, D D'Costa, Rl Kolhe, R Arora, A Roy, A Raorane, St Kale, A Pathak, M Negi, S Kaur, R N Waghmare, Si Warke, S Shoukat, B Harish, A Poojary, C Madhavaprasad, K Nagappa, S Das, **R J Zende**, S Garg, S Bhosle, S Radriguez, A M Paturkar , M Fritzenwanker H Ghosh, T Hain and T Chakraborty , Emerging Microbes & Infections , 2016,5 e55, doi:10.1038/emi.2016.55 ,
7. Physicochemical and Phytochemical Screening of Aqueous and Ethanolic Extracts of *Costus Pictus* D. Don and *Enicostema Littorale* Blum , P.V. Meshram, S.D. Moregaonkar, M.M. Gatne, R.V. Gaikwad, **R.J. Zende**, S.D. Ingole and G.R. Vanage , Chemical Science Review and Letters , 2017, 6(21), 426-434 ,
8. Cystic echinococcosis in animals and humans of Maharashtra state, India, V.M. Vaidya, **R.J. Zende**, A.M. Paturkar, M.L. Gatne, D.G. Dighe, R.N. Waghmare, S.L. Moon, S.S. Bhavne, K.G. Bengale and N.V. Nikale, Acta Parasitologica, 63(2), 231- 243, DOI: 10.1515/ap-2018-0027, (2018),
9. Scenario of Porcine Cysticercosis and Human Taeniasis in Maharashtra State, India'. Turkish Journal of Veterinary and Animal Sciences, Vilas Vaidya, Ashish Paturkar, **Ravindra Zende**, Mukulesh Gatne, Dhananjay Dighe, Rupesh Waghmare, Shilpa Moon, Sujata Bhavne, Priyanka Jadhav and Nilam Wavhal, Turkish Journal of Veterinary and Animal Sciences, 2018, Vol.42, No. 4, 353-358,
10. Evolutionary epidemiology of trichinellosis in pigs and rats of Maharashtra state, India. Parasitology Research, 2018 Vilas M. Vaidya, Ashish M. Paturkar, **Ravindra J. Zende**, Dhananjay G. Dighe, Rupesh N. Waghmare, Digambar V. Jundale, Suvarna G. Panchal, Shilpa L. Moon and Sujata S. Bhavne. 2018.

#### **PATENTS FILED (04)**

1. Applied for the patent on "**Model retail outlet for production of hygienic chicken meat**" (Application No.1842/MUM/2014 date 04/06/2014) which has been published on 27/06/2014 on Intellectual Property India (IP website <http://ipindiaonline.gov.in/patentsearch/search/index.asp>;
2. Applied for the patent on Development and validation of „Indirect-ELISA kit for diagnosis of Hydatidosis in cattle" (Application No. 195/MUM/2015) which has been published on 6/03/ 2015 on website: <http://ipindiaonline.gov.in/patentsearch/search/index.aspx>.
3. Applied for the patent on "Extraction of Chondroitin sulphate from buffalo cartilage" (Application No. 201721004162 dated 06/02/2017)

which has been published on 21/07/2017 on Intellectual Property India (IPI) website <http://ipindiaonline.gov.in/patentsearch/search/index.aspx>.

4. Applied for the patent on "**Flow Through Assay kit for Serodiagnosis of cysticercosis**" (Application No. **201821012447** dated **02/04/2018**)

### **AWARDS A N D HONOURS ( 1 6 )**

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1. Fellow Award - 2011 of Indian Association of Veterinary Public Health Specialist.
2. Bharat Shiksha Ratan Award-2011 from Global Society for Health and Educational Growth, New Delhi.
3. Appreciated as a Principal Investigator by Quinquennial Review Team (ICAR Team) for "**Very Good performance**" amongst the total of 38 centers implemented across the country in the discipline of Agriculture, Horticulture, Fishery and Veterinary Sciences. For this stupendous success and extra ordinary achievement congratulated and appreciated by Project Co-ordinator, AICRP on PHT and Director of Research, MAFSU, Nagpur- 440 001.
4. "**Excellent**" remarks by National co-ordinator ICAR, New Delhi for successful implementation of research project entitled **Monotoring of Pesticide Residues at Nationl Level**, since 2011.
5. Best poster presentation award (2nd position) for "Quality Evaluation of Newly Developed Emu Meat Sausages" in XI<sup>th</sup> Annual conference of IAVPHS held at Ludhiana during 13-14, December, 2013
6. **BEST RESEARCHER AWARD 2014** of Maharashtra Animal and Fishery Sciences University, Nagpur.
7. Best poster presentation award (1<sup>st</sup> position) for "A Survey on prevalence of Hydatidosis, Cysticercosis and Trichinellosis in human of Maharashtra by data collection and ELISA" in XIII<sup>th</sup> Annual conference of IAVPHS held at Dept. of LPT, Veterinary College, Hebal, Bengaluru during 10-12 February 2015.
8. Prof. Mahendra Pal award for best Oral presentation on Zoonoses in XIII<sup>th</sup> Annual conference of IAVPHS held at Dept. of LPT, Veterinary College, Hebal, Bengaluru during 10-12 February 2015.
9. ISVIB Best poster presentation award (1<sup>st</sup> Position) for "Prevalence of Hydatidosis and Cysticercosis in human and

animal population by molecular and serological techniques" in XIII conference of ISVIB held at Shirwal during 18-19 April 2017.

10. Prof Mahendra Pal Award for Best Oral presentation on Zoonoses in XV<sup>th</sup> Annual conference of IAVPHS held at Dept. of VPH, College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati, during 11<sup>th</sup> -13<sup>th</sup> October, 2017.
11. Best oral presentation award (1<sup>st</sup> Position) for "Epidemiological Investigation of Trichinellosis in pigs, rats and humans of Maharashtra" in XV<sup>th</sup> Annual conference of IAVPHS held at Dept. of VPH, College of Veterinary Science, Sri Venkateswara Veterinary University, Tirupati, during 11<sup>th</sup> -13<sup>th</sup> October, 2017.
12. Honoured in 4<sup>th</sup> National Conference and Scientific Updates on Prevention of Diseases of Public Health Importance (Zoonotic Diseases) held at SGS Medical College and KEM Hospital, Parel, for outstanding contribution to public health service on 2<sup>nd</sup> Feb, 2018.
13. Best Poster Award (Second position) Risk assessment of *Salmonella* spp. in chicken meat production chain considering various farming and processing systems, in FSSAI-ICMSF-CHIFFS Symposium on Microbiological Food Safety: Sampling and Testing in Food Safety Management
14. Honoured in 5<sup>th</sup> National Conference and Scientific Updates on Prevention of Diseases of Public Health Importance (Zoonotic Diseases) held at SGS Medical College and KEM Hospital, Parel, for outstanding contribution to public health service on 20<sup>th</sup> Feb, 2019.
15. Dr. S. P. Singh, Best Research Paper Award, Prevalence of *Listeria* spp. In women and Animals by Isolation and Multiplex PCR Assay, XVI Annual Symposium of IAVPHS scheduled held during 26<sup>th</sup> – 27<sup>th</sup> February, 2019 at Nagpur Veterinary College, MAFSU, Nagpur.
16. Best poster presentation award for "Serodiagnosis of Hydatidosis in buffaloes by Flow Through Assay" in XVI Annual Symposium of IAVPHS scheduled during 26<sup>th</sup> – 27<sup>th</sup> February, 2019 at Nagpur Veterinary College, MAFSU, Nagpur.

### **ADMINISTRATIVE EXPERIENCE**

1. Expert Member of Scientific Panel on Food Additives, Flavorings, Processing Aids and Materials in Contact with Foods, Food Safety and Standards Authority of India, A Statutory Authority

under *Ministry of Health and Family Welfare, Govt. of India, New Delhi* (2011 to 2014)

2. Expert Member of Scientific Panel on Meat and Meat Products including Poultry, Food Safety and Standards Authority of India, A Statutory Authority under the Ministry of Health and Family Welfare, Govt. of India, New Delhi- 110002 (2018 to 2020)
3. Expert Member of Scientific Panel on Antibiotic Residues in Foods , Food Safety and Standards Authority of India, A Statutory Authority under the Ministry of Health and Family Welfare, Govt. of India, New Delhi- 110002 ( Since 2019)
4. Technical Assessor (NABL), Quality Council of India, NABL, Govt. of India, New Delhi (Since 2014)
5. Joint Secretary of IAVPHS (2009 to 2012).
6. Vice President of IAVPHS, IVRI, Bareilly, Izatnagar (2012 to till date).
7. Expert Member of APEDAs Meat Plant Registration Committee for Approval of Slaughter house, Meat processing Plant for Export purpose (2011).
8. Expert Member for Export Inspection Agency, Mumbai Region Office, Inter Departmental Panel (IDP) for Approval of Milk and Milk products processing establishment for export purpose (2011).
9. District and State level Rapid Response Team under Intensive Disease Surveillance programme, Nominated by Director of Research, MAFSU, Nagpur.
10. Member Secretary (2001 to 2018) and Chairman of Board of Studies in the discipline of Veterinary Public Health (Since 2020).
11. Technical Manager (2006 to 2012) and Quality Manager (Since 2011) for NABL activities of Western Region Referral Laboratory, Dept. of VPH, MVC, Mumbai-12.
12. Member to present Joint Animal Science Research Council Meeting in the discipline of VPH (For Departmental and ICAR Research Projects Work).
13. Member to present Departmental and ICAR Research Projects Work in Animal Science Research Council Meeting at College level.
14. Member of the Associate Dean's Advisory committee.
15. Chairman of Interview panel for selection of candidates for the post of RA, SRF, Scientist and Sr, Scientist on various ICAR sponsored Research projects.

**PROFESSIONAL AFFILIATIONS AND MEMBERSHIPS (08)**

1. Life Member of Bombay Veterinary College Alumni Association.
2. Life Member of Veterinarians Association of Bombay Veterinary College.
3. Life Member of Association of Public Health Veterinarians, Kolkatta.
4. Life Member of Indian Association of Veterinary Public Health Specialist, IVRI, Izatnagar.
5. Life Member of Indian Meat Science Association, Pondichery.
6. Life Member of Indian Association for the Advancement of Veterinary Research (IAAVR), IVRI
7. Life Member of American Society for Microbiology.
8. Life member of Society for Biosafety, India.