

CURRICULUM VITAE



Dr. Prasad M. G.



Indian Council of Agriculture Research – Indian Veterinary Research Institute. Izatnagar, Deemed university, Uttar Pradesh.



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25th January 1994



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Primary skills

Proteomics

Metabolomics

SDS-PAGE

2-Dimensional Gel Electrophoresis

LC-MS

FTRI

Gel analyser

Melanie 9

SPSS

OriginPro

PRISM

LaTeX

Overleaf

Mendeley

Bioinformatics

Educational details

Examination passed	Year of Passing	Subject/ specialization	College / University in which studied	Percentage obtained
Graduation	2017	B.V. Sc & AH	Hassan veterinary college, KVAFSU, Bidar	63.2/100
Post-graduation	2020	M. V. Sc (Livestock products technology, Livestock production management, poultry science)	Bengaluru veterinary college, KVAFSU, Bidar	86.8/100
Doctorate	2023*	Major: Livestock products technology, Minor: Veterinary public health, poultry science	ICAR- Indian Veterinary Research Institute, Izatnagar	78.10/100
PGDAW	2023*	Post-graduation diploma in animal welfare	Indira Gandhi open university (IGNOU)	78.86/100
NET	2020	Livestock products technology	ICAR NET (ASRB)	Qualified

Research Experience

- A. Ph.D. research:** ICAR- Indian Veterinary Research Institute (IVRI), Izatnagar, India; ICAR- National Meat Research Institute, Hyderabad, Telangana, India (2020-till date).

Project: ICAR- National Fellow Project.

- Research Work: Exploring Omic Approaches to Unravel the Impact of Transportation and Slaughter Stress on Animal Welfare and Meat Quality. Under Supervision of Dr. Naveena B. M., National Fellow, Principal Scientist at ICAR- National Research Centre on Meat, Hyderabad, India (Grant No. Ag. Edn./27/04/NP-NF(VP)2019-HRD)

- B. Master's research:** Bengaluru veterinary college, Karnataka veterinary animal and fisheries science university, Bidar, Karnataka, India (2019-2020).

Project: Department of Science and Technology- Science and Engineering Research Board funded project, project number: 202016000228.

- Research Work conducted: Effect of Pomelo (*Citrus maxima*) on Physico-Chemical and Textural Characteristics of Spent Goat Meat. Under supervision of Dr. Welfred Ruban and Dr. Kiran, KVAFSU. Bidar, India.

C. Employment role: Data enumerator

Project: The Deutsche Gesellschaft fur *Internationale Zusammenarbeit (GIZ)* GmbH in association with Center for Development Research (ZEF) Bonn and AFC Consultancy under the project, '**Green Innovation Centers for Agriculture and Food Sectors**' for the period of 15th July 2017 to 15th August 2017.

Awards

1. Best oral presentation award for research work entitled "Unraveling Antioxidant and Antimicrobial Properties of Pomelo Fruit extract (*Citrus maxima*) on Goat Meat" issued by Association of Meat Science and Technology: AMST: *International symposium* · November 2020
2. Best poster presentation award for the research work entitled "Effect of Aqueous Extract of Pomelo (*Citrus maxima*) on Physico-chemical, Textural and Sensory Characteristics of Spent Goat Meat" issued by Indian Meat Science Association: IMSACON XI: *International symposium* · December 2022

3. Best poster presentation award for the research work entitled "Effect of Slaughter Stress on Animal Welfare and Meat Quality in Broiler Chickens" issued by Indian Meat Science Association: IMSACON XI: *International symposium* · December 2022
4. Best oral presentation award for research work entitled "Comparative untargeted metabolomics of commercial and slow growing broiler meat using UHPLC-QTOF/MS" issued by Association of Meat Science and Technology: AMST: *International symposium* · November 2020
5. Best oral presentation award for research work entitled "Comprehensive analysis of the gelatin derived from buffalo hide, pig, sheep, chicken and spent hen skin" issued by Association of Meat Science and Technology: AMST: *International symposium* · November 2020
6. Best poster presentation award for the research work entitled "Lateral flow immunoassay meat and commercial meat product" issued by Indian Meat Science Association: IMSACON XI: *International symposium* · December 2022
7. Best poster presentation award for the research work entitled "Biomarker discovery and authentication of cold-slaughtered chicken through classical analytical procedures and mass spectrometry based proteomic approaches" issued by Indian Meat Science Association: IMSACON XI: *International symposium* · December 2022
8. Best oral presentation. Detection and differentiation of source of gelatin extracted from food animals and poultry birds using species specific collagen peptide through MALDI- TOF/MS analysis. *National conference*. AMSTCON IV, October 2023.
9. Best oral presentation. Physico-chemical, functional, and microstructural properties of poultry skin collagen hydrolysates derived from ultrasound-assisted extraction. *National conference*. AMSTCON IV, October 2023.
10. ICAR NET (ASRB), 2020

Publications

Research article

1. **Prasad M. Govindaiah**, Naveena B. Maheswarappa⁺*, Rituparna Banerjee, Bidyut Prabha Mishra, Balaji B. Manohar and Sowmya Dasoju. (2023). Impact of slaughter stress on welfare and meat quality of slow-growing broiler chicken. *Poultry Science*. 102: Pp 103033 (DOI:10.1016/j.psj.2023.103033). **NAAS: 10.01**
2. Balaji M. Belore, B. M. Naveena*, V. V. Kulkarni, R. Banerjee, P. Hazarika, S.

- Dasoju, Bidyut P. Mishra, and **M. G. Prasad**. (2023). Biomarker discovery and authentication of cold-slaughtered chicken through classical analytical procedures and mass spectrometry based proteomic approaches, *British Poultry Science Journal* (<https://doi.org/10.1080/00071668.2023.2239168>). **NAAS: 7.89**
3. **Prasad M. Govindaiah**, Naveena B. Maheswarappa*, Rituparna Banerjee, Bidyut Prabha Mishra and Balaji B. Manohar (2023). Unveiling the biochemical, enzymatic and hormonal stress biomarkers: Effects of transportation and lairage on sheep welfare and meat quality. *Journal of Meat Science*. <https://doi.org/10.48165/jms.2023.180101> **NAAS: 4.70**
 4. **Prasad, M. G**, Kiran, M*., Mohan, H. V., Wilfred Ruban Savariraj, Prabha, R. (2023). Effect of aqueous pomelo fruit extract (*Citrus maxima*) on the physico-chemical, textural, and sensory properties of spent goat meat. *International Food Research Journal*, (IFRJ23193: Under review). **NAAS: 7.17**
 5. **Prasad, M. G**, Kiran, M*., Mohan, H. V., Wilfred Ruban Savariraj, Prabha, R. (2023). Exploring the In-Vitro Anti-Oxidant and Anti-Microbial Properties of Pomelo Fruit Extract in Goat Meat: A Promising Alternative for Preservative and Health Benefits. *Measurements: food*. (MEAFOO-D-23-00111: Under review). **NAAS: 10.12**
 6. Bidyut Prabha Mishra, Naveena B. Maheswarappa*[‡], Rituparna Banerjee, **Prasad M. Govindaiah**, Balaji B. Manohar, Sowmya Dasoju, T. Mounika, P. Sowmya Reddy, Judy Lalthanmawii and Prasana Kumar Rath. 2023. Extraction and characterization of pig skin gelatin compared to commercial porcine gelatin. *Journal of Meat Science (Accepted)*. **NAAS: 4.70**
 7. Niranjana B. H, **Prasad M. Govindaiah***, Mahesh S. Yandigeri , Diksha Purushottam Gourkhede, Nadeem Fairoze, Elangovan A. V and Rao S. B. N., 2023. Bioconversion and performance of Black Soldier Fly (*Hermetia illucens*) in Converting Organic Poultry Waste Materials into High Value Products and Fertilizers. *Waste and Biomass Valorization (WAVE-D-23-01003: Under review)* **NAAS: 9.45**

Abstracts of papers presented at international conferences.

1. **Prasad M. Govindaiah**., Naveena B. Maheswarappa., Banerjee Rituparna., Bidyut P. Mishra, Balaji B. Manohar and Diksha P. Gourkhede. 2023. Uncovering novel insights into meat quality and poultry welfare: a comparative analysis of different slaughter techniques. *69th International Congress of Meat Science and Technology proceedings*, Padova, Italy. Pp. 394-395

2. **Prasad, M. G.**, Kiran, M., Mohan, H. V., Wilfred Ruban Savariraj, Prabha, R. Unraveling Antioxidant and Antimicrobial Properties of Pomelo Fruit extract (*Citrus maxima*) on Goat Meat. *International Symposium: Association of Meat Science and Technology: AMST* · November 2020
3. **Prasad, M. G.**, Kiran, M., Mohan, H. V., Wilfred Ruban Savariraj, Prabha, R. Effect of Aqueous Extract of Pomelo (*Citrus maxima*) on Physico-chemical, Textural and Sensory Characteristics of Spent Goat Meat. *International symposium: Indian Meat Science Association: IMSACON XI*· December 2022
4. **Prasad M. G.**, Naveena B. M., Banerjee R., Muthukumar M., Bidyut P. Mishra, Balaji B. Manohar and Sowmya D. Effect of Slaughter Stress on Animal Welfare and Meat Quality in Broiler Chickens. *International symposium: Indian Meat Science Association: IMSACON XI*: · December 2022
5. Banerjee R., Naveena B. M., Johny Ijaq, Sen, A. R., Muthukumar M., Sowmya D., **Prasad M. G.**, Bidyut P. Mishra and Balaji B. Manohar. Comparative untargeted metabolomics of commercial and slow growing broiler meat using UHPLC-QTOF/MS. *International symposium: Indian Meat Science Association: IMSACON XI*· December 2022
6. Bidyut Parva Mishra, Naveena Maheswarappa, Rituparna Banerjee, Eswara Rao, Naga Mallika, Sowmya Dasoju, **Prasad, M. G.**, Balaji M. Belore; Prasana Kumar Rath. Comprehensive analysis of the gelatin derived from buffalo hide, pig, sheep, chicken and spent hen skin. *International symposium: Indian Meat Science Association: IMSACON XI*· December 2022
7. Banerjee R., Naveena B. M., Sowmya D., **Prasad M. G.**, Balaji B. Manohar, Bidyut P. Mishra and Mounika T. Lateral flow immunoassay meat and commercial meat product. *International symposium: Indian Meat Science Association: IMSACON XI*· December 2022
8. Balaji M. Belore, B. M. Naveena, V. V. Kulkarni, R. Banerjee, P. Hazarika, S. Dasoju, Bidyut P. Mishra, and **M. G. Prasad**. Biomarker discovery and authentication of cold-slaughtered chicken through classical analytical procedures and mass spectrometry based proteomic approaches. *International symposium: Indian Meat Science Association: IMSACON XI*· December 2022
9. Kiran M, **Prasad, M.G.**, Wilfred Ruban Savariraj, and Prabha R. Effect of Pomelo Fruit (*Citrus maxima*) Extract on Physico-Chemical and Textural Characteristics of Spent Goat Meat. *International symposium: 4th Asian Conference on Science, Technology & Medicine*, during 20th to 21st November 2021.
10. Bidyut Prava Mishra, B. M. Naveena, R. Banerjee, B. Eswara Rao, E. Naga Mallika, **M. G Prasad**, B. M. Belore,, T. Mounika, P.Soumya, L. Judy, J. Mishra

and P. K. Rath. Detection and differentiation of source of gelatin extracted from food animals and poultry birds using species specific collagen peptide through MALDI- TOF/MS analysis. *National conference. AMSTCON IV*, during 16th to 18th October 2023.

11. Judy, L., Rituparna Banerjee, Naveena, B.M., Subhasish Biswas, Bidyut Prava Mishra, Balaji Belore, **Prasad, M.G.** Physico-chemical, functional, and microstructural properties of poultry skin collagen hydrolysates derived from ultrasound-assisted extraction. *National conference. AMSTCON IV*, during 16th to 18th October 2023.
12. Naveena, B. Banerjee, R, Muthukumar, M, Sen A, R, **Prasad, M, G.** and Phanikumar, P. Assessment of water and energy usage in poultry slaughter and meat processing plant: A case study. *International conference. XVI Agricultural Science Congress*, 2023.
13. Judy, L. Banerjee, Naveena, B. M., Belore, B., Prasad, M. Koneti, P. B., Mishra, B. P. and Sowmya, P. Green extraction of collagen hydrolysates through valorization of poultry skin: Physicochemical, functional and microstructural properties. *International conference. XVI Agricultural Science Congress*, 2023.

Book Chapters

1. **Prasad M. Govindaiah**, Diksha P. Gourkhede, Bharat Shindhe. 2023. Cultivating the Future Plate: Lab-Grown Meat and The Sustainable Food Revolution. Applied Biotechnology in Veterinary Science. ISBN: 978-93-94151-22-2
2. Payal Agarwal, Bharat Shindhe, Vidyarani H B, **Prasad M Govindaiah**. 2023. Significance of Carbon Footprints and Strategies to Alleviate Methane Emission in Livestock Production. Applied Biotechnology in Veterinary Science. ISBN: 978-93-94151-22-2
3. Vidyarani H. B, Bharat Shinde and **Prasad M. G.** 2023. Precision in Animal Feed Safety: Exploring Modern Techniques for Mycotoxin Analysis. *Futuristic Trends in Agriculture Engineering & Food Sciences, IIP Series (Accepted)*.
4. Bidyut P. Mishra and **Prasad M. G.** 2023. Wool Science, Abattoir Practices and Animal By-Products Technology, C.V.Sc & A.H., OUAT, Odisha

Popular articles

1. **Prasad M. Govindaiah**, Balaji M. Belore and Rushikesh Borse. 2023. Uncovering and Managing Antibiotic Residues in Milk and Milk Products. Available at: <https://www.pashudhanpraharee.com/uncovering-and-managing-antibiotic->

[residues-in-milk-and-milk-products/](#)

2. **Prasad M. Govindaiah**, Diksha P. Gourkhede. 2023. From Petri Dish to Plate: Exploring the Future of Lab-Grown Meat. *Agri Mirror: Future India*. 3(4)s: 10-17. Available at <https://neweraagriculture.com/volume-02-issue-02-july-2023-2/>
3. **Prasad M. Govindaiah**. 2023. Mastering Calf Management: Guiding the Journey from Birth to Profit. *New Era Agriculture*, 2(3); 31-37. Available at <https://neweraagriculture.com/wp-content/uploads/2023/09/Article-7.pdf>
4. **Prasad M. Govindaiah**. 2023. Unveiling the Power of Sanitizers: From Disinfection to Sterilization. *New Era Agriculture*, 2(3); 214-221. Available at <https://neweraagriculture.com/wp-content/uploads/2023/09/Article-44.pdf>
5. **Prasad M. G**, Balaji Belore, Judy Lalthanmawii and Priya K. 2023. Evolving Dynamics of India's Dairy Sector: A Contemporary Overview. *New Era Agriculture*, 2(4); 29-33. Available at <https://neweraagriculture.com/wp-content/uploads/2023/10/Article-7.pdf>

Training Certificates (≥ 21 days)

1. Vrithika Internship on "Development of Rapid Detection Methods for Addressing Meat Food Fraud and Animal Welfare Issues"
Organized by Meat Proteomics Lab, ICAR-National Research Centre on Meat, Hyderabad
Duration: 29th November to 30th December 2022
Program: Accelerate Vigyan, DBT-SERB sponsored program
2. Immunology: A Tool for Disease Management
Organized by Department of Veterinary Microbiology, College of Veterinary Science Animal Husbandry, Mhow (M.P)
Duration: 11th to 31st October 2021
Program: International Training cum Orientation Programme
3. Digital Assessment and Evaluation Methodologies
Conducted by ICAR- National Academy of Agricultural Research management.
Duration: 1st to 30th September 2022
Program: Massive Open Online Course (MOOC)
4. Teaching Learning Evaluation Technology Programme (TLETP 2023)
Jointly organized by ICAR - ATARI, Ludhiana, Punjab, RVSKVV, Gwalior, Madhya Pradesh, and NADCL, Baramulla, UT of Jammu & Kashmir

Duration: 5th to 25th April 2023
Program: National orientation course

5. Practical Animal Nutrition for Augmenting Livestock and Poultry Productivity
Organized by Dr. N. K. Sudeep Kumar and Professor Asha Kanwar
Duration: July 11th to August 31st 2023
Program: AgMOOC

Workshop & other training certificates

1. National workshop on **Career Counselling & Opportunities for Agriculture & Allied Graduates**, organized by All India Agricultural Student Association (AIASA) on 2nd July, 2023.
2. SERB Sponsored High-End Workshop on **Advanced Preservation Techniques and Analytical Tools for Quality Assurance and Safety of Muscle Foods**, organized by ICAR - National Research Centre on Meat, Hyderabad from January 18-25, 2022.
3. Workshop on "**The Biological Diversity Act, 2002, and its Access and Benefit Sharing (ABS) Provisions**" held at Veterinary College, KVAFSU, Bengaluru on 15th December 2017, organized by UNEP-GEF-MoEF-ABS Project, Karnataka Biodiversity Board, and Veterinary College, KVAFSU, Bengaluru.
4. National Workshop on "**Ethics and Welfare Concerns in Research for Human and Animal Health**" jointly organized by Centre for One Health Education, Advocacy, Research and Training (COHEART) and Department of Veterinary Pharmacology and Toxicology on 15th September 2017 at College of Veterinary and Animal Sciences, Wayanad, Kerala.
5. Workshop on "**Science Communication**" conducted by ICAR-Indian Veterinary Research Institute (IVRI), Izatnagar, India on December 29th, 2021.
6. Certificate of Appreciation for practical demonstration during ICAR sponsored winter school "**Obtaining Globally Recognized Certifications for Ensuring Quality and Safety of Milk, Meat, Poultry and Fish and Establishing Food Testing Laboratory**" from February 8 to 28, 2022, organized by ICAR - National Research Centre on Meat, Hyderabad, India.
7. Certificate of Participation in the National Webinar on "**Emerging Trends in Scholarly Publishing**" organized by University Library & Information Centre, Karnataka Veterinary, Animal & Fisheries Sciences University, Bidar, Karnataka, India on 23rd June 2020.
8. Certificate of Completion on Data Enumerator Training for the Survey "**Nutritional**

and Socioeconomic Status of Agriculture and Livestock Farming in Hassan district" - Nutrition survey at Veterinary college, Hassan from 26th to 29th June 2017, jointly organized by The Deutsche Gesellschaft fur Internationale Zusammenarbeit (**GIZ**) GmbH in association with Center for Development Research (ZEF) Bonn and AFC Consultancy under the project, '**Green Innovation Centers for Agriculture and Food Sectors**'.

9. Certificate of Participation in the **16th All India Agricultural Universitas Youth Festival** representing KVAFSU - Bidar (University) in the **on-spot painting competition** held from February 01 to 04, 2016 at OUAT, Bhubaneswar, Odisha, India.
10. Participated in training under Continued Veterinary Education program on "**A Refresher Course for Registered Veterinary Practitioners**" from 19th to 21st December 2017 at Karnataka Veterinary Council, Bengaluru, India.
11. Attended a training on **Randox Biochip Array Technology (BAT)** and the Randox application on 15th March 2023 at ICAR- National Research Centre on Meat, Hyderabad, India.
12. Participation in the **7th Pan Commonwealth Veterinary Conference** held from 3rd to 7th March 2019 in Bengaluru, India, jointly organized by Commonwealth Veterinary Association, KVAFSU-Bidar, and ICAR-National Institute of Animal Nutrition and Physiology.

Active Memberships

- **Karnataka Veterinary Council (KVC):** Registered Veterinarian: KVC 5929
- **Indian Meat Science Association (IMSA):** Life Member 650/2022
- **All India Agriculture Student Association (AIASA):** AIASA/IVRI/OL/LM-16/2023

References

1. Dr. Naveena B. M.

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2. Dr S.K. Mendiratta

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Izatnagar-243 122 (U.P.) India
Contact no.: +91- 8630660541
Email: mendiratta_65@yahoo.co.in

Declaration: I hereby declare that the mentioned information is true to the best of my knowledge and belief.

Place: ICAR-IVRI, Izatnagar

Date: 12th September 2023



Dr. Prasad M G