



TO MAGNIFICA RETTRICE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 7131

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Department of Food, Environmental and Nutritional Sciences (DeFENS) at the University of Milan**

Scientist- in - charge: **Prof. Pellegrino and Prof. Dallavalle**

SANDEEP N

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	N
Name	SANDEEP

PRESENT OCCUPATION

Appointment	Structure
Senior Research Fellow	Indian Council of Agricultural Research- National Dairy Research Institute, India

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	Dairy Technology	Karnataka Veterinary Animal and Fisheries Sciences University, India	2018
Specialization	—	—	—
PhD	—	—	—
Master	Dairy Technology	ICAR- National Dairy Research Institute, India	2021
Degree of medical specialization	—	—	—
Degree of European specialization	—	—	—
Other	—	—	—



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
—	—	—

FOREIGN LANGUAGES

Languages	level of knowledge
English	Proficient

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2023-2025	Senior research fellowship
2019-2021	Institute fellowship
2021	All India Rank 4 on ICAR AICE JRF/SRF – PhD entrance test
2019	All India Rank 7 on ICAR AIEEA - MS entrance test

TRAINING OR RESEARCH ACTIVITY

<p>description of activity</p> <p>Senior Research Fellow ICAR-National Dairy Research Institute India 2023-25</p> <p>Project Title: “Isolation of proline-rich polypeptides from colostrum of select indigenous cattle breed and evaluation of their nutraceutical potential”</p> <ul style="list-style-type: none">Isolated & purified proline-rich polypeptides (PRPs) from colostrum and characterized them using HPLC, SDS-PAGE, LC-MS/MS and estimated amino acid (Proline) content in the peptidesEvaluated nutraceutical (antidiabetic, immunomodulatory and antitumor) potential of PRP's using invitro assaysDeveloped PRPs fortified sterilized milk and validated for its bio-accessibility using simulated gastro-intestinal digestion <p>Project Title: “Proteomic and exosome profiling of colostrum milk from Holstein Friesian (Bos taurus), Karan Fries and Tharparkar (Bos indicus) breeds”</p> <ul style="list-style-type: none">Performed Proteomic Analysis on colostrum, transitional and mature milk samples from specific indigenous cattle breedsExosomes were isolated using Ultracentrifugation method and characterized using Particle size analyzer, Nanoparticle tracking analyzer, Transmission electron microscopy and Western blotting <p>Project Title: “Effect of Spray Drying processing parameters on physico-chemical, functional and rehydration properties of Goat Milk Powder”</p> <ul style="list-style-type: none">Optimized Spray Drying processing parameters using Pilot scale spray dryer



- Analysed powder for their physico-chemical, functional and rehydration properties

PROJECT ACTIVITY

Year	Project
2023-25	"Isolation of proline-rich polypeptides from colostrum of select indigenous cattle breed and evaluation of their nutraceutical potential"
2023-25	"Proteomic and exosome profiling of colostrum milk from Holstein Friesian (Bos taurus), Karan Fries and Tharparkar (Bos indicus) breeds"
2020-21	"Effect of Spray Drying processing parameters on physico-chemical, functional and rehydration properties of Goat Milk Powder"

PATENTS

Patent
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CONGRESSES AND SEMINARS

Date	Title	Place
2020	Computer Vision Applications in Dairying – Dr. Aditya Nigam, IIT Mandi	
2019	Sensory Evaluation: Importance, Physiology and Methods – Dr. Koushik Adhikari, USA	
2019	Language Proficiency Certificate in English- National Agricultural Higher Education Project (NAHEP)	

PUBLICATIONS

Books
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Articles in reviews
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Congress proceedings



OTHER INFORMATION

Research Skills: HPLC, LC-MS/MS, SDS-PAGE, UV and Fluorescence spectrophotometer, ELISA plate reader, Pilot scale Fermenter, Ultracentrifuge, Lyophilizer, Spray drying, Particle size analyzer, Nanoparticle tracking analyzer, Transmission electron microscopy, Scanning electron microscopy, Fourier Transform Infrared Spectroscopy, Ultrasonication, Colour and water activity metres.

- Expertise in functional analysis techniques: Invitro biochemical assays, cytokine assays and cell culture techniques.
- Skilled in assessing peptide stability under gastric and intestinal conditions.
- Strong understanding of Dairy protein biochemistry and their functionality.
- Analytical Tools: NCBI-Blast, Uniport Protein database, Protein-Protein network interaction
- Statistical Tools: SPSS (Duncan's test and Turkeys multiple comparison test), Graph pad Prism and DOE software's
- Microsoft Tools: Excel, Word, Power point and Microsoft teams

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Banglore, March 13th, 2025