

KARMEGAM DUSHYANTHAN

PROFESSOR AND HEAD

Department of Livestock Products Technology,
Apollo College of Veterinary Medicine,
Jaipur – 302031,
Rajasthan

Residence -No 4 First Street Extension, Bank Colony,
Madhavaram Milk Colony Post, Chennai,
Tamil Nadu, 600051
9444221789
karmegamduhyanthan@gmail.com

SUMMARY

I obtained a Ph D in Meat Science and Technology, with a OGPA 9.00 / 10.00, in the year 1996 from Tamil Nadu Veterinary and Animal Sciences University, Chennai, India.

Earlier I Mastered in Meat Hygiene and Technology and obtained a Post graduate degree M.V. Sc with a OGP 4.00/4.00 in the year 1987 from Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India.

My under graduate degree is B.V.Sc., which I passed out in Second Class in the year 1982 from Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India.

I worked in the following organizations –

1. In **SUMUL Dairy, Surat, Gujarat** as **Veterinary Officer** for **10 months** from April 1982 to January 1993, wherein I was responsible in providing Veterinary health care and Animal husbandry inputs to the milk producers' livestock.
2. In **Department of Animal Husbandry, Government of Tamil Nadu, India** as **Veterinary Assistant Surgeon** for a period of **2 years and 10 months** from February 1983 to December 1985, wherein I was in charge of Veterinary Dispensary, Breeding bull Station and worked as Extension Officer for Animal Husbandry in the Panchayat Union at various places.
3. In **The Nilgiris District Co-operative Milk Producers' Union Limited, Udhagamandalam, Tamil Nadu** as **Assistant Manager (Veterinary)** for a period of **1 year and 4 months** from September 1987 to January 1989, wherein I provided Veterinary health care and Animal husbandry inputs to the milk producers' livestock like Artificial Insemination and breeding, cattle feed etc.

My academic career started from the year 1989 February on wards as Assistant Professor in the **Department of Meat Science & Technology, Veterinary College & Research Institute, Namakkal, Tamil Nadu** under the **Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu**. Later I was reinstated into the newly formed University - **Tamil Nadu Veterinary and Animal Sciences University, Chennai** and continued my services till my retirement on 31-12-2016.

I worked as **Assistant Professor** for a period of **7 years and 10 months** from September 1989 to July 1997. Got promoted to the post of **Associate Professor** from August 1997 and worked for a period of **8 Years**. Apart from the regular academic activities while working as the Head of the Veterinary University Training and Research Centre at Dindigul, Tamil Nadu conducted regular government sponsored Livestock Health Protection camps in the district. Obtained a sponsorship of Rs. 2,58,000/- (Rupees two lakhs fifty eight thousand only) sponsored by the District Rural Development Agency, Dindigul to conduct 10 training

programmes for 10 women Self Help Groups (SHGs) and obtained a piece of land to house the Centre from the District Collector.

From August 2005 onwards was promoted as **Professor** till my retirement in December, 2016 with an experience of **11 years and 4 months**. During this period I rendered a foreign service to the **Government of Ethiopia** by working as **Professor in the Department of Food Science and Technology, School of Nutrition, Food Science and Post-Harvest Technology, College of Agriculture, Hawassa, Ethiopia** for a period of **3 years and 7 months**.

After my retirement I took up a post retirement consultancy teaching service at a private Veterinary College – **Apollo College of Veterinary Medicine, Jaipur 302021, Rajasthan** from **29.07.2019** till date as Professor and Head, Department of Livestock Products Technology.

RESEARCH INTERESTS:

- Ageing, delayed chilling and post mortem changes of meat
- Various methods of packaging of meat and meat products (aerobic, vacuum and modified atmosphere packaging - MAP) using different material and storage conditions
- Electrical stimulation in chicken carcass
- Retort processing
- Electrical stunner fabrication
- Extruded meat products
- Preparation of value added buffalo meat products

TOTAL NUMBER OF YEARS OF EXPERIENCE

- Teaching and Research – **27 years and 10 months**
- Extension and field service – **34 years and 10 months**

Worked in FOUR projects

Obtained FOUR Projects from External Funding Agencies to a sum of INR 80.88 lakhs

SO FAR GUIDED

- **FOUR M. V. Sc., students,**
- **ONE M. Sc., student** and
- **ONE Ph. D scholar.**

RESEARCH ARTICLES PUBLISHED: FORTY ONE

- **Articles Published in Indian Journals – 35**
- **Articles Published in International Journals – 6**
- **First authored articles - 16**
- **Co-authored articles – 25**

Papers/abstracts/posters presented in seminar /symposium - 32

International Seminar/Conferences Attended - 5

Life member in professional associations –8

Prepared Teaching Manuals: 26 Laboratory Manuals: 7 and Training Manuals: 3

RESEARCH ACHIEVEMENTS:

- Suitable packaging material, methods and storage temperature of meats;
- Chevon meat curry was successfully preserved under retort packaging;
- Value added meat products;
- Electrical Stunner,
- Extruded meat products and
- Designs for rural slaughterhouses.
- Value added ready-to-eat Tandoori duck.

EDUCATION

B. V. Sc., Madras Veterinary College, Chennai, Tamil Nadu, India.

Graduated April 1982

Passed out in Second Class. Studied all the subjects in the B.V.Sc., curriculum. Graduated from The Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India

M. V. Sc., Madras Veterinary College, Chennai, Tamil Nadu, India.

Graduated by August 1987.

Passed out with an OGPA - 4.00/4.00. Graduated from the Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu, India

Ph. D Meat Science and Technology Veterinary College, Chennai, Tamil Nadu, India

Graduated by July 1996.

Passed out with an OGPA 9.0/10.0. Graduated from the Tamil Nadu Veterinary and Animal Sciences University, Chennai, India with

EMPLOYMENT HISTORY

SUMUL Dairy, Surat District Cooperative Milk Producers' Union. From April 1982 - January 1983.

Worked as **VETERINARY OFFICER**. Providing Veterinary health care and Animal husbandry inputs to the milk producers' livestock like Artificial Insemination and breeding, cattle feed etc.

Department of Animal Husbandry, Government of Tamil Nadu. From February 1983 - December 1985.

Worked as **VETERINARY ASSISTANT SURGEON**

Was in charge of Veterinary Dispensary and Breeding bull Station at various places and worked as Extension Officer for Animal Husbandry in Katankulathur Panchayat Union.

The Nilgiris District Co-operative Milk Producers' Union Limited, Uthagamandalam, Tamil Nadu. From September 1987 - January 1989.

Worked as **ASSISTANT MANAGER (VETERINARY)**.

Providing Veterinary health care and Animal husbandry inputs to the milk producers' livestock like Artificial Insemination and breeding, cattle feed etc.

Department of Meat Science & Technology, Veterinary College & Research Institute, Namakkal, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.

Worked as Assistant Professor from February 1989 - September 1989.

Teaching Faculty, and Research including Extension education

Tamil Nadu Veterinary and Animal Sciences University, Department of Meat Science & Technology, Veterinary College & Research Institute, Namakkal, Tamil Nadu.

Continued to work as Assistant Professor from September 1989 - July 1997

During this period I taught the subject of Meat Science and Technology with audio visual aids. Hands on training were also given to them in practical meat inspection, slaughter and dressing, packaging and preservation of meat, various techniques in meat products preparation and also in by products preparation. Further, training and lecture demonstrations were also given to butchers, farmers, unemployed youth, women of SHG and others on hygienic methods of slaughter of food animals. and Zoonotic diseases and prevention to the Public Health and Teachers from the Institute of Public Health, Government of Tamil Nadu. Conducted research on Studies on the suitability of different packaging materials for different meat foods sponsored by the ICAR, New Delhi. Achieved in finding a suitable packaging material for packaging meat under different storage conditions.

Tamil Nadu Veterinary and Animal Sciences University, Chennai, India

Promoted as Associate Professor from August 1997 and worked till August 2005

Apart from the regular academic activities while working as the Head of the Veterinary University Training and Research Centre at Dindigul, Tamil Nadu conducted regular government sponsored Livestock Health Protection camps in the district. Obtained a sponsorship of Rs. 2,58,000/- (Rupees two lakhs fifty eight thousand only) sponsored by the District Rural Development Agency, Dindigul to conduct 10 training programmes for 10 women Self Help Groups (SHGs) in Shanarpatti Block, Dindigul District in Goat, broiler and rabbit rearing and was succeeded in inculcating the scientific methods of goat and rabbit production from 10th April, 2000 to 15th July, 2000. Further I obtained a piece of land to house the centre from the District Collector. Worked in the ICAR sponsored All India Coordinated Research Project on Post-harvest Technology. Conducted a survey on the Post-Harvest Losses in agricultural crops and animal products in the district of Thiruvallur, Tamil Nadu under the AICRP on PHT.

Tamil Nadu Veterinary and Animal Sciences University, Chennai, India

Promoted as Professor from August 2005 and worked till November 2010.

Teaching Faculty, Research and Extension education.

Was selected as Course Content Developer in the discipline of Livestock Products Technology course titled Abattoir Practices and Animal by-products Technology under the NAIP scheme on "Development of e-Courses for BVSc & AH degree Programme".

Developed improvised Electrical Stunning equipment for effectively stunning food animals while working in the AICRP on PHT from April 2005 to April 2009. Prepared extruded chicken meat product under the above scheme.

Hawassa University, Awassa, Southern Nations, Nationalities, and People's Region, Ethiopia.

Was selected as Professor and worked from December 2010 to July 2014.

This was a foreign service rendered by me to the Government of Ethiopia by working as Professor in the Department of Food Science and Technology, School of Nutrition, Food Science and Post-Harvest Technology, College of Agriculture, Hawassa, Ethiopia. Conducted courses for the under graduate and post graduate students of the faculty. Guided one MSc student for his thesis work to get his Post graduate degree

Tamil Nadu Veterinary and Animal Sciences University, Chennai

Returned to work as Professor, August 2014 till my retirement on 31-12-2016.

Involved in Livestock and Poultry Farming Management Research and Extension activities. Conducting Training Programmes. Teaching Faculty, Research and Extension education

TEACHING EXPERIENCE

Courses Offered –

I. Under Graduate Courses –

- a. B. V. Sc - Under trimester system – 4;
Under semester system – 4; Under Veterinary Council of India system – 3
- b. B. Tech (Food Technology) – 5
- c. B. Sc., (Food Science and Technology) – 6

II. Post Graduate Courses –

- a. MV Sc., (Meat Science and Technology) – 8
- b. MSc, (Food Science and Technology) – 9

III. Ph. D courses (Meat Science and Technology) – 4

EXPERIENCE IN EXTENSION EDUCATION

- Conducted a total of 10 training programmes for 10 women Self Help Groups (SHGs) in Shanarpatti Block, Dindigul District in Goat, broiler and rabbit rearing and was succeeded in inculcating the scientific methods of goat and rabbit production from 10th April, 2000 to 15th July, 2000 with the funds to a sum of Rs. 2,58,000/- (Rupees two lakhs fifty eight thousand only) sponsored by the District Rural Development Agency, Dindigul.
- Conducted training programmes in preparation of value added milk and meat products to the women SHGs and have made them understand the importance and economics in preparation of value added milk and meat products.
- Conducted a survey on the Post-Harvest Losses in agricultural crops and animal products in the district of Tiruvallur, Tamil Nadu under the AICRP on PHT.

ASSETS ACQUIRED (New lands/ Properties/ building constructed)

- Initiated the process of acquiring 71 cents of land at the premises of the District Collectorate Complex, Dindigul by 04-05-2001, while working as Associate Professor and Head at Veterinary University Training Centre, Dindigul, Tamilnadu

Hobbies & Interests -Photography, music and reading books.

Professional Skills

Treating ailing animals both small and large animals:	Advanced
Teaching, research and extension activities of Veterinary and Animal Sciences :	Expert
Slaughter, processing of meats, packaging and preservation:	Expert
Retort processing:	Advanced
Development of electrical stunner :	Advanced
Development of scalding tank and masks for gas stunning :	Advanced
Development of Meat products :	Expert
farm management and consultancy :	Advanced

Languages

Tamil:	Native
English:	Fluent
Hindi:	Beginner
Sinhala:	Beginner
Amharic:	Beginner

- **LIFE MEMBER IN 8 PROFESSIONAL ASSOCIATIONS.**
- **WAS AWARDED LIFETIME ACHIEVEMENT BY THE INDIAN MEAT SCIENCE ASSOCIATION** in the year 2019 for outstanding contribution in the field of Livestock Products Technology.