



DR LAXMAN MEKALA

Born on 20th February 1963 in an illiterate family, downtrodden community of a remote village in District Karimnagar. Superannuated as Professor and Head & Officer-in-Charge of Ruska Labs on 28th February 2023 after 24 years of glorious service in teaching profession. Obtained BVSc & AH and M.V.Sc (Veterinary Pathology) degrees in 1987 and 1994, respectively from APAU, Hyderabad. Did PhD in Veterinary Pathology from College of Veterinary Sciences, Sri Venkateswara Veterinary University, Tirupati in 2011. Cleared the NET / ARS in the year 1994. Initially, served in Poultry Sector (1989-99) and in Department of Animal Husbandry, Govt. of Andhra Pradesh as Veterinary Assistant Surgeon from 1994-1999 and played a pivotal role in launching of mass deworming programme of sheep and goats in Karimnagar district at *Janma Bhoomi* Programme in the year 1997 by explaining its importance to the then Hon'ble Chief Minister of Andhra Pradesh which is still in practice. Conducted mass vaccination and sero-monitoring programme of Operation Rinder pest Zero (ORZ). Retendered service in the University as Assistant Professor (13-08-1999 to 28-10-2012 =13 Y 2M) subsequently, selected (Direct) as Associate Professor & Officer-in-charge (29-10-2012 to 30-10-2015=3Y) and further, promoted (CAS) as Professor and Head & Officer-in-charge from 31-10-2015 to 28-02-2023 = 7Y 4M (Superannuated on attaining the age of 60 years).

As an eminent Veterinary Pathologist, possesses expertise in postmortem examination, histopathology, Immunohistochemistry, ultrastructural pathology, molecular pathology and handling of LM, TEM and SEM and different microtomes. Significantly contributed in teaching and guiding UG & PG (48) and PhD (24) scholars. Major supervisor of 10 MVSc and 5 PhD scholars and also guided C V Raman fellow of Medical Anatomy PhD scholar from Nigeria, M.Sc (BioTech) scholar of SPMVV-Tirupati. Published 174 scientific articles in NAAS and Impact factor Journals, 487 citations and 11 h index and authored few practical manuals (UG, PG, and EM); developed e-course of Veterinary Laboratory Diagnosis (VLD) along with TANUVAS, and CDROM for Pathology, published one book chapter in Current Status of Research in Biosciences (2020), and resource person for EMSI workshops. Analyzed several biological samples from ICRISAT, Bharat BioTech, IICT, CCMB, CDFD, IISc, NIN, IIL, OMC and various hospitals. Guest speaker in a number of National /International and platforms; panel member in electronic media; external examiner, paper setter, thesis evaluator of various Universities; syllabus designer, paper setter and expert panel member for TSPSC, J&KPSC and screening committee member for selection and promotion of Faculty, Scientists at NIAB, ICAR-DPR, Veterinary Universities. Attended confidential duties (ARS-NET) assigned by ICAR, Research and Advisory Committee

(RAC) member of ICAR-CIRG- Makdood and reviewer for several NAAS rating and Impact Factor journals. Recently he successfully organized International Veterinary Pathology Confress-2022.

Awarded with ICAR Junior Fellowship in Gynecology (1994- not availed); Rythunestam (2017); Fellow of Electron Microscopy Society of India(2020); Global Management-Best Teacher Award (2020); IAVP-Best teacher Award (2020); Fellowship India Association of Veterinary Pathologists (2021) and VD Good Technology Factory-Outstanding Scientist Award (2021). Global Economic and Progress Research Association- Bharath Ratna Rajiv Gandhi Gold Medal Award (2021). Dr Lakshman Mekala superannuated from services of PVNRTVU, Rajendranagar, Hyderabad, Telangana on 28-2-2023.

BRIEF BIO-DATA OF DR MEKALA LAKSHMAN
PREFSSOR and HEAD & OFFICER-IN-CHARGE OF RUSKA LABS
(ELECTRON MICROSCOPE LAB) - Retired
DEAPRTMENT OF EVTERINARY PATHOLOGY
PVNRTVU, Rajendranagar, Hyderabad, Telangana State -30.

1. Personal details:

A. Name : LAKSHMAN MEKALA
B. Date of Birth : 20-02-1963
C. Sex : Male
D. Marital status : Married
E. Present address : H.No.1-2-14/BC/42, Street.No-4, Brindavan Colony,
Budvel, Rajendranagar, Hyderabad-500030.
Mobile: 9121774999, Email: mekala_bry@yahoo.com

2. Educational qualifications:

Degree	Subject	University	Year	Class	% OGPA
Ph.D.,	Veterinary Pathology	Sri Venkateswara Veterinary University (SVVU) C.V. Sc, TIRUPATI- 517 502.	2011	I	9.92/10.00
M.V.Sc.,	Veterinary Pathology	A.P. Agricultural University (APAU), C.V.sc Rajendranagar, Hyderabad-30. INDIA	1994	II	7.74 /10.00
B.V.Sc.& A.H.,	Veterinary Science &Animal Husbandry	A.P. Agricultural University (APAU), C.V.sc Rajendranagar, Hyderabad-30. INDIA	1987	II	7.00 /100

3. Employment track record:

I. Private service:

- a. Employer:** Poultry Complex Management
Poultry complex, Suryapet, Nalgonda (Dist), A.P. India.
b. Job title: Resident Veterinary Officer (RVO)

- c. Length of service rendered:** One year nine months (from1994 to 1996)
d. Significance: In-charge for 1.25 Lakhs layer birds including feed plant

II. Government service:

a. Employer: Director

Department of Animal Husbandry
 Government of Andhra Pradesh
 Hyderabad. A.P. India.

- b. Job title:** Veterinary Assistant Surgeon
 Animal Health Centre (AHC), Karimnagar, A.P. India.

- c. Length of service rendered:** Five (5) years Six (6) months and Nine (9) days

From 03-02-1994 to 12-08-1999)

- d. Significance:** Nucleus in launching of state wide (A.P) small ruminants deworming programme (in practice till date in TS and

AP)

III. University service: Current Employment:

a. Employer: Registrar

P.V.Narasimha Rao Telangana Veterinary University
 (PVNRTVU)
 Telangana State, HYDERABAD- 500030, INDIA.

b. Job title: Professor & Officer-in-charge

Department of Veterinary Pathology
RUSKA LABS (Electron Microscope Laboratory)
 College of Veterinary Science, Rajendranagar, Hyderabad -30

c. Length of service rendered:

- a. As Assistant Professor and Officer-in-charge: 13-08-1999 to 29-10-2012
 b. As Associate Professor and Officer-in-charge: 30-10-2012 to 29-10-2015

c.As Professor and Head & Officer-in-charge: 30-10-2015 to 28-02-2023

- d. Significance:** As Assistant Professor: Prepared a CDROM on General Pathology
 As Associate Professor: Imported EM training & EM manual preparation
 As Professor: Renovation and purgation of department & Museum

4. Academic track record: Teaching UG-1999 onwards, PG- 2003 onwards and PhD-2011 onwards. Number of students guided Till 2019: **72**

Status	PhD Students		Total	PG Students		Total	Grand total
	Major	Minor		Major	Minor		
Completed	05	19	24	10	38	48	72
Grand Total	05	19	24	10	38	48	72

**5. Area of Research: "Molecular and Ultrastructural Pathology of Agro-Industrial-Pollutants
in Experimental and Food Animals"**

6. Expertise and Techniques known:

- Expert in establishment and maintenance of pathology and diagnostic laboratories.
- Expert in processing, preparation and mounting of specimens' museum & its maintenance.
- Expert in Electron Microscopy.
- Expert in Post-Mortem Examination of livestock, poultry, wild and zoo animals.
- Expert in different biopsy techniques and procedures.
- Expert in rotary microtomy, ultramicrotomy and cryomicrotomy.
- Expert in laboratory diagnostic work which includes hematology, serum biochemistry, tissue enzymatic analysis, interpretation of histopathology slides, immunohistochemistry, and other clinical samples.
- Subject matter specialist in imparting trainings on post mortem techniques in livestock and poultry wild and zoo animals to the Veterinarians.
- Subject matter specialist in imparting training on tissue processing for histopathology, immunohistochemistry and electron microscopy and special staining procedures.

7. Papers presented in International and National Conferences: 22 (Twenty-two only)

8. Guest Lectures / Invited lectures/ Memorial lectures presented: 53 (Fifty-three only)

9. Membership in professional societies: 09 (Nine only)

10. Trainings attended with in India: 25 (Twenty-five only)

11. Trainings organized: 08 (Eight only)

12. Additional Duties: More than 14 Assignments (More than fourteen)

13. Publications: Scientific articles: 174 (One hundred and Seventy four only).

14. Articles in Vernacular language: 12 (Twelve only).

15. Manuals: (UG, PG and PhD): 8 (Eight - Private circulation only)

16. Articles citation: A. Twenty four articles (24) in Fifteen (15) text books and 688 citations in different Scientific Journals with "h" index 13 and "i22" index.

B. Chapter in **one book** "CURRENT STATUS OF RESEARCH IN BIOSCIENCES" Chapter 37; Topic: "**Conventional electron microscopy A Weapon For Research and Disease Diagnosis**:377- 390.

17. Awards & Recognitions:

- A) ICAR Jr. research fellow ship (JRF) in Veterinary Gynecology and Obstetrics (Not availed) 1994.
- B) Qualified in NET / ASRB in 1995.
- C) Rythunestam Award in Recognition of EM work in the field of Life Sciences - 2017.

- D) "Fellow of Electron Microscope Society of India- 2020" received in Asia Pacific Microscopy Conference 12th APMC-2020), in the field of life Sciences.
- E) National Award of Excellence -2020 - Adarsha Vidya Saraswathi Rastriya Puraskar, Glacier Journal Research Foundation - Global management Council, Ahmadabad, Gujarat, 17th, December, 2020.
- F) IAVP-2020 Best Teacher Award, 28-12-2020, Online International Veterinary Pathology, Congress- 2020, International Symposium on Role of Veterinary Pathology in Controlling Emerging & Re-Emerging Diseases of livestock & poultry: One Health Approach, Nagpur Veterinary College, Nagpur, Maharashtra State.
- G) IAVP- 2021 "Fellow of Indian Association of Veterinary pathologists"
- H) Best Organizer Award of IAVP-2022 for Organizing International Veterinary Pathology Congress-2022 (IVPC-2022), Hyderabad from 17-19, November, 2022 & Post conference workshop on Electron Microscopy.

18. Expertise in handling of different Microscopes:

I. Electron Microscopes handled (Models of TEM and SEM):

- A. Transmission Electron Microscope Hitachi - H 7500
- B. Scanning Electron Microscope JEOL - JSM 5600
- C. Other accessories:
 - a. Leica Ultra cut UCT-GA-D/E-1/00,
 - b. JEOL JFC-1600 sputter coater
 - c. CPD unit EMS-850.

II. Light Microscopes handled (Models):

- A. Olympus AX 70 (Trinocular)
- B. ZEISS AXISCOPE 7 (Trinocular)
- C. NIKON Steriozoom (Trinocular)
- D. Olympus Pena headed Training Microscope (Trinoocular)
- E. Student Mono-ocular Microscopes

19. Significant contributions in the field of Veterinary Pathology and Electron Microscopy

- 1) **Working in Electron Microscope Laboratory (2008 onwards) which is a central paid facility in PVNRTVU, Hyderabad.**
- 2) Prepared a training manual on TEM and SEM and conducted a short term orientation training programme for Veterinary faculty members (10) as per the University directions. **And trained two Overseas scholars (One from Iraq (Veterinarian and One from Washington DC Sr. Citizens Forum).**
- 3) Till date (31-03-2017) **10258** (TEM-3649, SEM 2856 and LM-3753 of different type of specimens) samples were analyzed received from different parts of India from different organizations like CSIR - CCMB and IICT; ICMR- NIN, ICAR (AP and TS), DST, DBT, ICRISAT,

IVRI, IIMR, NIPER, IIT's, VIT, SCTIMST, RGCA-TN, OMFRI-Cochin, NIOT, BITS Pilani- Hyd, JNTU, GEETAM Univ. Phrama Indusrt, (DrReddys Labs, Gelmark, Zydus, Granules India Ltd, etc.,) Agri Bio-Tech companies, Bayer, NFC, Bhratah Biotech, Shanta Biotech, Biological E Ltd., Indian Immunological (IIL), Other Vaccine Production Units. Virchow Labs, Corporate Hospitals (Apollo, Global), Asian institute of gastroenterology (AIG) and Medical Research Centers, Medical and Dental Colleges apart from Veterinary, Agricultural Universities - T.S; A.P and other traditional Universities from different parts of India.

- 4) Experienced and expertise in handling of Animal, Plant, Human, Virus, Bacteria, Fungal, Fish, Nano, Drug and other materials and published in various high impact factor journals like, Nature, Blood, JBC, Springer and Elsevier Journals of different subjects (few were mentioned).
- 5) **Lead papers Invited talks and memorial Lectures on EM**
 - a) Presented a **Lead Paper** on EM in IAVP conference held at College of Veterinary Science, Ananad, Gujarat.
 - b) Presented a **Lead Paper** on EM in AAHP conference held at Goa.
 - c) AIG for Team of Physicians at Hyderabad.
 - d) Presented a **Dr. Khannan Memorial Lecture** on EM in IAVA conference held at College of Veterinary Science, Rajendranagar, Hyderabad.
 - e) Presented an **Interactive Lecture** to the Faculty and PhD scholars at JNTU, Hyderabad.
 - f) Presented a **contributory paper** on at EMSI Conference held at Delhi University, New Delhi.
 - g) Presented an **Invited Talk** on EM in EMSI conference held at IIT- BHU, Varanasi, Uttarpradesh.
 - h) Presented an **Invited Talk** on EM in EMSI conference held at Mumbai, Maharastra.
 - i) Presented an **Invited Talk** on EM in EMSI conference held at IGCAR- Kalpannam, Tamilnadu.
 - j) Presented an **Invited Talk** on EM in EMSI conference held at Mumbai, Maharastra.
 - k) Presented a n **Invited Talk** in EMAAT conference held at HPU, Himachal Pradesh.
 - l) Presented a **Lead Paper** on EM in IAVP conference held at College of Veterinary Science and animal Husbandry, Selesih, Aizwal, Mizoram.
 - m) Presented an **Invited Talk** on EM in ISC held at Manipur Central University, Manipur.
 - n) Presented an **Invited Talk** on EM in ISC held at Lovely professional University, Jalandar, Punjab.

- o) Presented an **Invited Talk** on EM in ISC held at UAS-GKVK, Bangalore.
 - p) Presented a n **Invited Talk** in 12th APMC-EMSI 2020, held at HICC, Hyderabad. T.S.
- 6) **One of the Resource personal for pre-conference and post conference workshops organized by EMSI and collaborative Institutes.**
- a) Held at IIT, BHU, Varanasi, UP.
 - b) Held at IIT Madras and IGCAR, Kalpakkam, Tamil Nadu.
 - c) Held at Institute of Physics, Bhubaneswar, Odessa.
 - e) Held at HPU, Dept of physics, Himachal Pradesh.
- 7) Out of 174 total published articles 33 are EM articles.
- 8) Out of 18 presentations at National and International Symposia's and Conferences; **18/13 are EM presentations.**
- 9) Out of 48 Guest / Invited and Lead papers **27 are EM Lectures.**
- 10) **Organized One Orientation training programme** on EM for 3days to the SVVU Faculty members.
- 11) Prepared SEM, TEM practical manuals for trainings, Two EM books (SEM and TEM) are under processing (private circulation).
- 12) Delegates from Washington DC, USA and Iraq (2017), **Host Scientist in India for Nigerian (Africa) Medical Anatomy PhD CVRaman, Fellow in the field of EM studies (2017).**
- 13) Contributed the Electron Microscope part for more than 4000 PG and PhD thesis work from different parts of India.
- 14) **Delivered Two (2) TV talks and two (2) All India radio talks on EM**
- 15) Panel member for many social and scientific debates including COVID-19 in different TV channels.
- 20) Papers on "**Application of Conventional Electron Microscopy in Disease Diagnosis of Aquatic Animals**" as **Plenary Speaker** in the International Conference on Aquaculture, Copenhagen, Denmark (4th to 6th June , 2018); and "**Conventional Electron Microscopy in disease diagnosis and Research- Practical Challenges and Remedies**" **Key Note speaker** International Conference & Expo on Animal Science & Veterinary Medicine Conference & Expo, Durban, South Africa February (25-26, 2019), **Invited as a Key Note Speaker**(15-18 December 2022). All three are not attended due to lack of financial support.