

Curriculum vitae

Dr. MADHAV NILAKANTH MUGALE

(D.V.M.; M.V.M. (Pathology), Ph.D., CLAS, IBTP)
**Senior Scientist; Lab. No. PCN 203, Department of Toxicology and Experimental
Medicine, CSIR- Central Drug Research institute (CSIR-CDRI), Lucknow, U.P.,
India**

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4587

**FELASA CLAS - (2016 - 2016) - Federation of European Laboratory Animals Sciences
Association Certificate course course on Laboratory Laboratory Animal sciences**

**Ph.D. (2012 - 2015) – Madras Veterinary College, TANUVAS, Chennai, Tamil Nadu,
India, 600007**

M.V.M. (2009 - 2011) – COVAS, GADVASU, Ludhiana, Punjab, India, 141004

**D.V.M. (2004 - 2009)- Bombay Veterinary College, Mumbai,MAFSU, Nagpur,
Maharashtra, India, 413512**

Awards, Honour and Merit Scholarship (11)

- 1) Poster presentation Award 28 Annual Scientific Meeting of Indian National Association for Study of the Liver (INASL)
- 2) CSIR-CDRI: Lucknow CDRI 219-C002 (Cassia occidentalis) for bone regeneration and mitigation of corticosteroid induced osteoporosis
- 3) Incentive Awards for Technology 2021
- 4) Society of Toxicopathology in India: Diplomate of Indian Board of Toxicopathology: IBTP: 2020
- 5) Runner up award- LASACON conference 2019- Society of lung cancer for poster presentation- KGMU, Lucknow
- 6) **Young Scientist Award: Year 2016:** Indian association of Veterinary Pathology (IAVP)- In Durg (Raipur), Chhatisgarh, India
Title: Prophylactic effect of nano - *Eclipta alba* against DEN induced hepatocarcinogenicity in rats: pathological and molecular study
- 7) **Ph.D. Best Thesis award (Dr. Patri Rama Rao): 2016:** Indian association

of Veterinary Pathology (IAVP)

Ph.D. Thesis Entitled: Smart nanoparticles mediated delivery of curcumin and *Eclipta alba* and their ameliorative effect in experimentally induced hepatocarcinogenesis in rats

8) **IAVP “Best poster presentation (First) award” – 2015 Feb. 11 -12:** In south zone conference in Kerala and Veterinary Sciences University- Pookode (KVASU), India.

9) **Young Scientist Award: Year 2015:** Indian association of Veterinary Pathology (IAVP)- In Gannvaram, A.P., India.

Title: Ameliorative effect of curcumin solid lipid nanoparticles in induced hepatocarcinogenesis in rats: Analysis by cancer specific molecular biomarker.

➤ **Molecular oncology (Dr. S. Ramchandran) Award: Year 2014:** IAVP: Anand agriculture university (AAU), Gujarat- India.

Lung cancer project: Title - Jaagsiekte: Pathology and Molecular analysis of pulmonary adenocarcinoma in sheep and goat.

10) **Merit Scholarship – TANUVAS University - Chennai, for PhD (2012 to 2015)**

11) **Certificate of honour for Blood donation (2008)**

Total Experience: 8 years 1 months (January 2022)

PROFESSIONAL EXPERIENCE

Nano science:

➤ **Nano technology:**

- ❖ Preparation, standardization and characterization of Solid Lipid Nano particles
- ❖ Preparation, standardization and of chitosan Nano particles
- ❖ Preparation, standardization and of Silver nano particles
- ❖ Preparation, standardization and of cyclodextran nano particles

- ❖ **Nano medicine:** Used as curcumin solid Lipid Nano particles for the treatment of Liver cancer In situ and In vivo study
- ❖ Parijat chitosan Nano particles for the treatment of Pulmonary adenocarcinoma cell line (A549): In vitro

➤ **Nano Toxicology:**

❖ Taken the Nano toxicology trial in rodent models for the Silver nanoparticles and Solid Lipid Nano particles in rodents

- **Drug Discovery: Various disease animal Model development**
- **Regulatory Toxicology study as per guideline**
- **Veterinary Pathology**

OBJECTIVE

“To work in a Veterinary field / Research sector of your esteemed industry, where I can explore my knowledge for the development of it”

➤ EDUCATIONAL QUALIFICATION

Sl. No.	Degree/ Examination passed	Year of passing	University / Institute	Percentage/ O.G.P.A.	Medium
1	Ph.D. (Veterinary Pathology)	2015	Madras Veterinary College, TANUVAS, Chennai, Tamil Nadu	93.20% (9.32/10)	English
2	M.V.M. (Veterinary Pathology)	2011	COVAS, GADVASU (Offshoot of PAU), Ludhiana, Punjab	75.55% (7.55/10)	English
3.	D.V.M.	2009	Bombay Veterinary College, Parel, Mumbai, MAFSU Maharashtra.	75.60% (7.56/10)	English
4	H.S.C. (10+2)	2001	Latur Divisional Board, Maharashtra	65.67 %	English
5.	S.S.C.	1999	Latur Divisional Board, Maharashtra	79.46 %	Marathi

- 1.) **Most awesome Experience and opportunity: 2 Elephant postmortem examination and Diagnosis in Mumbai (2006) and Chennai (2012).**
- 2.) **Excellent opportunity and Task completed the Post Mortem of a Dolphin in Chennai (7 Dec. 2012)**

Worked in Certified Quality system

- **AAALACi**

- **GLP**
- **GMP**
- **DSIR**
- **CPCSEA**
- **CIB**

1. CSIR- Central Drug Reserch Institute (CSIR - CDRI) : GLP certified Discovery National Institute (Currently working)

- **Present Employer** : CSIR – CDRI, Lucknow, Uttar Pradesh
- **Full time Experince in** : **CSIR – CDRI** : November 2017 to till date
- **Designation** : Senior Scientist
- **Department** : Department of Toxicology and Experimental
Medicine

2. Sa-FORD: GLP certified CRO

- **Past Employer** : sa-FORD: CRO: New Mumbai: Maharashtra
- **Fulltime Experince:** sa-FORD: CRO: August 2017 to 1 st Novemver 2017
- **Designation** : **Senior Toxicopathologist/ Head**
- **Department** : Pathology

STUDY EXPERIENCE

(As a Study pathologist/ Peer review Pathologist/Study director)

I) Toxicological Studies

- Oral/ Inhalation/ Dermal/ GPMT acute toxicity study as per OECD guideline: in
Rat/ Guinea pig/ Rabbit
- 28 Days toxicity study as per OECD guideline
- 90 Days oral toxicity study as per OECD guideline
- 18 months chronic toxicity study as per OECD guideline
- 24 months chronic toxicity studyas per OECD guideline

II) **Reproductive Toxicity Study**

3. Vivo Bio Tech Ltd: CRO: GLP, CIB and AAALACi certified company

- **Past Employer :Vivo Bio Tech Ltd.: Research and Development (R& D) –**

Hyderabad, Telangana

12) Full Experience: Vivo Bio Tech Ltd.: Toxicopathologist and Animal Facility
incharge : 2 Years and 5 months (April 2015 to August 2017)

13) Designation : Scientist

14) Department : Pathology

15) Animal house : Rabbit Facility Incharge

STUDY EXPERIENCE

**(As a Study pathologist/ Peer review pathologist/ Study director/ Deputy Study
director/Principle investigator / Study personnel)**

I) Toxicological Studies

- ❑ Oral acute toxicity study as per OECD guideline (5)
- ❑ 28 Days toxicity study as per OECD guideline (3)
- ❑ 90 Days oral toxicity study as per OECD guideline (1)

II) Oncological studies

- ❑ In vivo tumour model development (Xenograft model):
- ❑ Epithelial prostate cancer development by using DU145 cell line in Nude mice
- ❑ Mammary tumor development in SCID mice by using MD
- ❑ Small lung cancer development in Nude mice by using
- ❑ Chemically induction of colon cancer by using DMH in rats

III) Surgical Model development in laboratory animals

- ❑ Development of thyroid-parathyroidectomy model
- ❑ Jugular vein cannulation in rat
- ❑ Common pancreatic- bile duct ligation and infusion (For pancreatotomy and β cell isolation)
- ❑ Catheterization in rat

IV) Immunogenicity Efficacy study (6)

- ❑ Evaluation of IL cytokine level by injecting immune modulator in Balb/c mice

**4. Venus Remedies Limited: GLP and GMP certified R and D (preclinical
Department)**

- **Past Employer :** Venus Medicine research centre Chandigarh , India.
- **Total Fulltime Experience:** Pharmaceutical drug company 1 Year and 3 months (25 July 2011 to September 2012).

- **Designation** : Toxicopathologist/ Assistant Manager
- **Department** : Preclinical Research and Pharmacology

STUDY EXPERIENCE

(As a Study pathologist/ Study director/ Deputy Study director/ study personnel)

I) Toxicological Studies

- ❑ Oral acute toxicity study as per OECD guideline (6)
- ❑ 28 Days toxicity study as per OECD guideline (3)
- ❑ 90 Days oral toxicity study as per OECD guideline (2)

II) Efficacy study

1.) Pain & Inflammation

- ❑ Formalin induced Pain and paw edema Model: Analgesic and Anti-inflammatory activity of test item by formalin test in mice.
- ❑ Acetic acid induced writhing test: Analgesic activity of test item by acetic acid induced writhing test in mice.
- ❑ Carrageenan induced pain and paw edema Model: Anti-inflammatory activity of test item by carrageenan induced paw edema model.

III) Gastro-intestinal related Studies

- ❑ Evaluation of test compound for Gastro-intestinal transit time and gastric emptying rate.

IV) Respiratory system related studies

- ❑ Induction of pneumonia and septicemia in rats and mice and its prevention by various antibiotics

V) Nervous system related studies

- ❑ Induction of meningitis and its prevention in rat by various drugs.

VI) Safety Study

Circulatory system related studies

- ❑ Evaluation of LD50 of immunomodulator
- ❑ Arrhythmia: Effect of immunomodulator on ECG in Rabbit

VII) Metabolic Disorder

- ❑ Streptozotocin and alloxan induced diabetes study and its effects on wound / burn wound healing in rats and rabbits.

VIII) Surgical Model

- ❑ Induction of post surgical nerve adhesion model in rabbits its prevention by

Laboratory Expertise

- ❖ Hematological examination
- ❖ Urine, Faecal & Skin scrapping examination
- ❖ Cytological smear
- ❖ Body fluid examination
- ❖ Histopathological technique and histopathological slide reading
- ❖ Oncological slide reading
- ❖ Runnig of automated haemato-biochemistry analyser instruemnt

Expertise In Laboratory Animal

- Laboratory animal handling (Rats, Mice, Guinea pig and rabbit)
- Blood collection from various animals: small, large, Poultry& laboratory animals.
- **Dosing of laboratory animal:**Intravenous (IV) dosing to rat, mice and rabbit.
- Oral dosing (PO) and Intramuscular (IM), Subcutaneous (SC), Intraperitoneal (IP)and intra paw injection in rat and mice
- **Breeding of laboratory animals (Rats, mice and rabbit)**
- Determination of time pregnant in laboratory animal (Estrus cycle phase determination)
- Knowledge of different strains of Rats (Wistar and Sprague Dawley) and mice (c57bl/6, Balb/c, Swiss webster and DBA) and Transgenic mice (nude, NOD SCID and scid- beige)
- Health monitoring in laboratory animals
- Drug dosage calculation in various animals

Expertise Molecular Techniques

- **Nanoformulation:** Synthesis and characterization of nanoparticles
- **Immunohistochemistry cancer biomarker** used: P53, Vimentin, Pancytokeratin-7, S100, ENV, PCNA, ki-67, BAX, Bcl2, AFP (monoclonal), Arginase and rabies (Polyclonal and monoclonal)
- **Worked on Real time-** Polymerase chain reaction (RT-PCR) by expression AFP and Arginase gene.
- **Worked on conventional Polymerase chain reaction (PCR)** (Heminseted): Expression of ENV and LTR region gene were studied.

- **Sero-immunological technique such as ELISA** (AFP, Glypican 3, Osteopontin and antirabies) and dFAT (Direct Fluorescent Antibody Technique).

Pharmaceutical: Industrial Experience

- To plan the toxicity experiment with due consideration to OECD, EPA, ICH, EMEA, ISO, Schedule-Y guidelines.
- Responsible for cost estimation, standardization of protocol, schedule preparation & study execution for following studies within time frame.
- To conduct various toxicological studies viz. acute, subacute and subchronic in mice, rats and rabbits.
- To perform necropsy, gross pathological examination for various toxicological studies
- To perform histopathological slide reading for various toxicology (28 days and 90 days repeated toxicity studies) and drug efficacy studies.
- Preparation of pathology reports for various toxicology studies.
- To act as 'Animal House Veterinarian' taking care of animal health right from animal receipt, quarantine, study period till rehabilitation and animal consignment.
- To perform the clinical pathological investigation and correlate them with necropsy and histopathological changes.
- Involved in various Pharmaco-kinetic studies in various species (Goat and Rat).
- To prepare protocol and subsequently study report as per GLP.
- To perform documentation as per good documentation practices and with due consideration to Good Laboratory Practices (GLP) in pre clinical division.
- Preparation and implementation of Standard Operating Procedures (SOP) relevant to GLP guidelines & authors in number of SOP.
- To train the technical staff in various histopathological and toxicological procedures (necropsy, histo-techniques and Good Documentation Procedures)

Audit and Meetings Faced

- GLP audits (Pre, main and surveillance) by Indian NGCMA authority
- Audits by the CPCSEA, IAEC, IBSC and AAALACi
- Various sponsors and clients audits done on a regular basis

Pharmacological Studies: Role and Responsibilities

- **Diagnostic knowledge:** By Histopathology, cytopathology, blood smear and immunohistochemistry examination of naturally infected diseases/ chemically induced diseases
- Basic knowledge of microbiological analysis and culturing
- **Experience in diagnosis:** Mammary tumor, leukemia in dogs, Fibrosarcoma in Rat, Transmissible venereal tumor in dogs, Lymphoma in dogs and Melanoma in dogs

Ph.D.: Veterinary Pathology: 2012-2015- TANUVAS- Chennai, Tamil Nadu, India

Research Title: “Smart nanoparticle mediated delivery of Curcumin and *Eclipta alba* and their ameliorative effect in experimentally induced hepatocarcinogenesis in rats”

I) **DEN: Induced hepatocarcinogenesis in rats**

Objective of study

- Preparation, standardization and characterization of nano curcumin and *Eclipta alba*
- Chemical induction of hepatic cancer
- Pathological study
- Expression cancer biomarker at level of “protein, tissue and mRNA” level at predecided time interval
- **Used Immunohistochemistry cancer biomarker:** AFP, Arginase, PCNA, Bcl2 and BAX
- **By ELISA protein level estimation:** Glypican-3, AFP and Osteopontin
- **Real Time PCR primer:** AFP and Arginase
- **In Silico molecular interaction:** Ligand with AFP and Metadherin protein

II) **Other cancer model development**

- Development of Mammary tumour by using DMBA chemical in rats

Special Problem during Ph.D.: Veterinary Pathology (2012-2015)- TANUVAS- Chennai

Title: Survey on pulmonary pathology in ovine and caprine with special reference to jaagsiekte in abattoir animals

Lung cancer/ Pulmonary adenocarcinoma (Jaagsiekte): Pathology and Molecular

analysis

- ❑ **Used Immunohistochemistry biomarker:** ENV, Vimentin, Cytokeratin-7, Ki-67 and S100.
- ❑ **Heminested PCR:** U3 LTR region, Sequencing and SNP analysis
- ❑ **Conventional PCR:** *Env* gene (Partial region)

M.V.Sc.: Veterinary Pathology - 2009-2011- GADVASU, Ludhiana, Punjab, India

Research Title:“Rabies In Animals: Post Vaccinal Serological Response and Comparison of Immuno-histological Techniques for Diagnosis of Rabies”

Objective of research

- ❑ **Analysis of serological** response in canines after primary and booster antirabies vaccinations in various age groups.
- ❑ **To compare the efficacy** of different immuno-histological techniques for the diagnosis of rabies in naturally infected animals.
- ❑ **Immunohistochemistry biomarker:** Monoclonal and polyclonal antibody
- ❑ **ELISA:** Antirabies immunity titer checking

Membership of Scientific Society

- 1) **Veterinary council of India (VCI) : Reg. No. 3535**
- 2) **Indian Association of Veterinary Pathologist (IAVP): Reg. No. IAVP/ M-81/ 2011**
- 3) **Maharashtra state Veterinary council (M.S.V.C.): Reg. No. 8313**
- 4) **Society of Toxicology of India (STPI): Reg. No.1234**
- 5) **Laboratory animal Science Association (LASA): Reg. No. 587**
- 6) **Laboratory animal Science Association of India (LASAI): Reg. No. L- 766**

COMPUTER SKILLS

- ❑ Well-versed with MS-Office, Windows 98, 2000, XP, Vista, Windows 7, Microsoft Office 2003 & 2007 (Microsoft Word, Excel and PowerPoint), Systat & SPSS software. etc

- ❑ Knowledge of various scientific databases (To access and get full text research articles and e-books from various reputed databases of the world i.e. Sciencedirect, Wiley Interscience, SpringerLink, Taylor and Francis and many more databases like this).
- ❑ Well known about the Linux software.

List of International and National Publication Details (Total- 37 published article+ 12- submission of partial genomic sequence)

1. Evaluation of Anti hyperglycaemic and toxicity studies of pure 4 HIL in type 2 diabetic and healthy rats. Pragati Singh¹, Sharmeen Ishteyaque¹, Ramanand Prajapati², Karan Singh Yadav¹, Rupali Singh¹, Akhilesh Kumar¹, Sharad Sharma¹ Tadigoppula Narender² and **Madhav Nilakanth Mugale**¹. **Human and Experimental Biology**. Accepted
2. Abu Mohammad Syed, Sourav Kundu, Chetan Ram, Uttam Kulhari, Akhilesh Kumar, **Madhav Nilakanth Mugale**, Upadhyayula Suryanarayana Murty, Bidya Dhar Sahu. Aoin alleviates pathological cardiac hypertrophy via modulation of the oxidative and fibrotic response. Life Sciences. 288 (2022) 120159
3. Rupali Singh, Karan Singh Yadav, Ramanand Prajapati, Sharad Sharma, Srikanta Kumar Rath, Tadigoppula Narender, **Madhav Nilakanth Mugale**. 4-HIL mitigates type-2 diabetic complications through inhibiting inflammation and Nrf2 mediated oxidative stress in rats. Phytomedicine Plus 2 (2022) 100141
4. Nootkatone confers antifibrotic effect by regulating the TGF- β / Smad signalling pathway in mouse model of unilateral ureteral obstruction. Shobit Gairola, Chetan Ram, Abu Mohammad Syed, Pakpi Doye, Uttam Kulhari, **Madhav Nilakanth Mugale**, Upadhyayula Suryanarayaana Murty, Bidya Dhar Sahu. European Journal pharmacology. European Journal of Pharmacology, 910 (2021) 174479. (I.F. – 3.3)
5. **Madhav Nilakanth Mugale**, Shubha Shukla, Manish K Chourasia, Kashif Hanif, Aamir Nazir, Sarika Singh, Jiaur R. Gayen, Jagavelu Kumaravelu, Raj Kamal Tripathi, Baisakhi Mohrana, Manoj k. Barthwal, Akhilesh Kumar, Deepak Sharma, Divya Mohan, Anurag K Srivastava, Sheeba Saji Samuel, Navodayam Kaleti,

Sachi Bharti, Anupama Srivastava, Divyansh Sharma, Anil Kumar Meena, Ramesh chandra, Sudhaker Yadav, Bharati Bhushan, Sadan K Pandey, Promod K Agnihotri, Himangsu K Bora, Sanjeev Kanojiya, Sharad Sharma, Prabhat Ranjan Mishra, Kaml R Arya, Naibedya Chattopadhyay, Srikanta Kumar Rath, Smrati Bhadauria. Regulatory safety pharmacology and toxicity assessments of a standardized stem extract of *Cassia occidentalis* Linn. in rodents. 2021. *Regulatory Pharmacology and Toxicology*. 123 (2021) 104960. (I.F. – 2.7)

6. Self-Assembling Nano-Globular Peptide from Human Lactoferrin Acts as a Systemic Enhancer of Bone Regeneration: A Novel Peptide for Orthopedic Application. Subhashis Pal, Mohd Sayeed, Amit Kumar, Devesh P Verma, Munesh K Harioudh, Neeraj K Verma, Konica Porwal, Shivani Sharma, Chirag Kulkarni, Amitabha Bandyopadhyay, **Madhav N Mugale**, Kalyan Mitra, Jimut K Ghosh, Naibedya Chattopadhyay. *ACS Appl. Mater. Interfaces* 2021, 13, 17300–17315. <https://doi.org/10.1021/acsami.1c01513>. (I.F. – 8.1)
7. Shoket Ali, Sharmeen Ishteyaque, Foziya Khan, Pragati Singh, Abhishek Soni, and **Madhav N. Mugale**. Accelerative Wound-Healing Effect of Aqueous Anthocephalus Cadamba Leaf Extract in a Diabetic Rat Model. *The International Journal of Lower Extremity Wounds*. 2021. 1–9. [sagepub.com/journals-permissions](https://www.sagepub.com/journals-permissions) DOI: 10.1177/15347346211018330. (I.F. – 1.5)
8. Salwa Naushin, Viren Sardana, Rajat Ujjainiya, Nitin Bhatheja, Rintu Kutum, Akash Kumar Bhaskar, Shalini Pradhan, Satyartha Prakash, Raju Khan, Birendra Singh Rawat, Karthik Bharadwaj Tallapaka, Mahesh Anumalla, Giriraj Ratan Chandak, Amit Lahiri, Susanta Kar, Shrikant Ramesh Mulay, **Madhav Nilakanth Mugale**, Mrigank Srivastava, Shaziya Khan, Anjali Srivastava, Bhawna Tomar, Murugan Veerapandian, Ganesh Venkatachalam, Selvamani Raja Vijayakumar, Ajay Agarwal, Dinesh Gupta, Prakash M Halami, Muthukumar Serva Peddha, Gopinath M Sundaram, Ravindra P Veeranna, Anirban Pal, Vinay Kumar Agarwal, Anil Ku Maurya, Ran Vijay Kumar Singh, Ashok Kumar Raman, Suresh Kumar Anandasadagopan, Parimala Karuppanan, Subramanian Venkatesan, Harish Kumar

Sardana, Anamika Kothari, Rishabh Jain, Anupma Thakur, Devendra Singh Parihar, Anas Saifi, Jasleen Kaur, Virendra Kumar, Avinash Mishra, Iranna Goger, Geethavani Rayasam, Praveen Singh, Rahul Chakraborty. Insights from a Pan India Sero-Epidemiological survey (Phenome-India Cohort) for SARS-CoV-2. 2021. Journal. eLife. (I.F. – 7.4)

9. Vineet Babu, Monika Binwal, Ranjana, Renu Kumari, Sumati Sen, Akhilesh Kumar, **Madhav N. Mugale**, Karuna Shanker, Narendra Kumar, Dnyaneshwar U. Bawankule. Hesperidin-rich ethanol extract from waste peels of Citrus limetta mitigates rheumatoid arthritis and related complications. *Phytotherapy Research*. 2021;1–12. (I.F. – 5.2)
10. Sharmeen Ishteyaque, Anjali Mishra, Sangeeta Mohapatra, Aparna Singh, Rabi S. Bhatta, Narender Tadigoppula & **Madhav Nilakanth Mugale**. In Vitro: Cytotoxicity, Apoptosis and Ameliorative Potential of Lawsonia inermis Extract in Human Lung, Colon and Liver Cancer Cell Line. *Cancer Investigation*. 38, 2020 - Issue 8-9, <https://doi.org/10.1080/07357907.2020.1811300>. (I.F. – 2.7)
11. Anand Gupta, Richa Garg, Pragati Singh, Umesh Kumar Goand, Anees Ahmed Syed, Guru Raghavendra Valicherla, Riyazuddin Mohammed, **Madhav Nilakanth Mugale**, Jiaur R Gayen, Pancreastatin inhibitor PSTi8 protects the obesity associated skeletal muscle insulin resistance in diet induced streptozotocin-treated diabetic mice. May 2020, *European Journal of Pharmacology* 881:173204 DOI: 10.1016/j.ejphar.2020.173204. (I.F. – 3.2)
12. Abhishek Soni, **Madhav Nilakanth Mugale**. Hepatocellular carcinoma pathogenesis and diagnostic Novel biomarkers: A pathological systemic review. *Drug Discovery*, 2020, 14(33), 119-129.
13. **Madhav Nilakanth Mugale** & C. Balachandran. 2020. Haematological protective effect of raw extract and nano-Eclipta alba-treated rats in experimentally induced

14. Sonal Srivastava¹ & Sakshi Mishra¹ & Jayant Dewangan¹ & Aman Divakar¹ & Nidhi Gupta¹ & Navodayam Kalleti¹ & **Madhav Nilakanth Mugale¹** & Sadan Kumar¹ & Sharad Sharma¹ & Srikanta Kumar Rath. 2019. Safety assessment of the pharmacological excipient, diethylene glycol monoethyl ether (DEGEE), using in vitro and in vivo systems. DARU Journal of Pharmaceutical Sciences <https://doi.org/10.1007/s40199-019-00264-5>. (I.F. – 3.3)
15. **Madhav Nilakanth Mugale** & C. Balachandran¹. 2019. Haematological protective effect of raw extract and nano-Eclipta alba–treated rats in experimentally induced hepatocarcinogenesis. Comparative Clinical Pathology <https://doi.org/10.1007/s00580-020-03092-1>. (I.F. – 0.7)
16. **Madhav Nilakanth Mugale** and C. Balachandran. An Abattoir Based Histopathological Survey of Pulmonary Pathology in Small Ruminants. International Journal of Livestock Research eISSN Vol 9 (02) **2019**: 2277-1964.
17. **Mugale Madhav Nilakanth**, C. Balachandran. Protective effect of curcumin and nano curcumin on hematological alterations in experimental hepatocarcinogenesis in rats. International Journal of Research and Analytical Reviews. 2019, 6 (1): 1248-1252.
18. Sreelekshmy M., R.B. Bind, **M.M. Nilakanth¹**, C. Balachandran¹ and R. Somvanshi. Studies on spontaneous pathological lesions in bovine and bubaline urinary bladders with reference to detection of Bovine Papillomaviruses (BPVs) and H-ras biomarker. Indian J. Vet. Pathol., 41(4) : 239-244, 2017: DOI: 10.5958/0973-970X.2017.00059.
19. **Madhav Mugale Nilakanth**, Balachandran C, Sridhar R., Selvasubramanian S. Dhinakar Raj G. Incidence and cyto-histopathological correlation in Jaagsiekte. . Indian Veterinary Journal. 2016, December, 93(12):65-66.

20. **Madhav Mugale Nilakanth**, Balachandran C, Sridhar R., Selvasubramanian S. Dhinakar Raj G. An abattoir study of prevalence and pathology of maedi in small ruminants. Indian Veterinary Journal. April 2015, 92 (4) : 54 – 57.
21. **Madhav Mugale Nilakanth**, Balachandran C., Dillibabu V., John Kirubaharan. J., Dhinakar Raj G., Sridhar R. Selvasubramanian S. Occurrence and causation of hepatic abscess in sheep and goat O26 Escherichia coli serotype, an emerging pathogen. Indian Veterinary Journal. July 2015, 92 (7) : 76 – 79.
22. M. Thangapandiyan^{1*}, C. Balachandran¹, K. Jeyaraja², K. Arulanandam¹, **MN Mugale**¹ and R sridhar¹. Pheochromocytoma in Dogs: A report on Cytohistological findings. International Journal of Veterinary Science. 2014, 2(4):189-191.
23. **Mugale Madhav Nilakanth**^{1*}, Abid Ali Bhat², D.S.Gavhane³, Sartaj Ahmad Bhat⁴. 2014. Outbreaks of Thrush in game pigeons in Punjab State of India. Comparative clinical Pathology. Comp Clin Pathol. DOI 10.1007/s00580-014-1958-y
24. **Madhav Mugale**, Praggaya Priya Lakra, Vikash Singh Chauhan. 2014. An overview of acute lymphoid leukemia in dog. Indian journal of field veterinarian. 9(2):92-93.
25. **Mugale Madhav** and Vikash Singh. 2014. Closed cervix pyometra in canines. The Indian Veterinary Journal. 91(09):78-80.
26. Akeel Beigh¹, Bhupinder Singh Sandhu¹, Charan Kamal Singh¹, Karan Bansal², **Madhav Mugale Nilakanth**¹, Sood Naresh Kumar¹. 2013. Comparative Analysis of histopathological alteration and immunohistochemistry in Cattle for Diagnosis of Rabies. Brazilian Journal of Veterinary Pathology. 6(1): 6-10.

27. **Mugale Madhav Nilakanth**^{1*}, Bhupinder Singh Sandhu², Beigh Akeel², Gupta Kuldeep³, Sood Naresh Kumar², Charan Kamal Singh². 2013. Comparison of various techniques used for diagnosis of rabies in cats. Eurasian Journal of Veterinary Science, Turkey. 29, 2, 92-96.
28. **Madhav N. Mugale**¹, Dhanya Nair², Vikash S. Chauhan³, Mansi Sachdeva⁴, M.M.Gatne⁵. 2013. Preliminary observations on the vermicompost made from Faecal Pellets of Ivermectin treated goats. International Journal of environmental science, Italy, Volume 3, No 2, ISSN 0976 – 4402.
29. Gavhane, D.S.,* Singh, A., Sood, N.K., Gupta, K., Baig, M.R. and **Mugale, M.** 2013. Immunolocalisation of c-Myc an Oncoprotein of Canine Mammary Tumors. Israel Journal of Veterinary Medicine. Vol. 68 (2) June 2013.
30. **Madhav Mugale**¹, B S Sandhu², T S Rai³, C K Singh⁴ And N K Sood⁵. 2013. Serological response to anti-rabies vaccination in animals: Failure to achieve a protective antibody level. Indian Journal of Animal Sciences. (83 (3): 10–00).
31. **Madhav Mugale**¹, B S Sandhu², C K Singh³ And N K Sood⁴. 2013. Histopathological alterations in nervous system of rabid animals. Indian Journal of Animal Sciences. 83 (7): 736–738, July 2013.
32. Nitin Dev Singh, Harmanjit Singh Banga, Prashant Dattatray Gadhave, **Madhav Nilkanth Mugale**. 2013. A retrospective evaluation of haematological values in clinical cases of water buffaloes. “Veterinary World” (Manuscript No.: Vetworld- 6(1):2
33. Vikash Singh and **Madhav Mugale**. 2013. Intussusception associated with linear foreign body (wool thread) in Rottweiler Puppy. Indian Veterinary Journal. 80(4): 95-97.

34. **Madhav Mugale**¹, Vikash Singh², Dnyaneshwar Gavhane³ and Gagan Goswami⁴. 2013. Salient features of Stickers tumour in dogs and its diagnosis by cytopathology and Histopathology technique. Indian Journal of Animal Sciences. 83 (3): 10–00.
35. **Madhav Mugale**^{1*}, & Vikash Singh². 2012. Rare Spontaneous Proliferating Tumour in Rat: Fibrosarcoma. Scand. J. Lab. Anim. Sci. Denmark. Vol. 39 No. 1.
36. S. Deshmukh, H.S. Banga, N.D. Singh, P.D. Gadhawe, **M. N. Mugale**, R.S. Brar. 2012. Histopathological characterization of Marek's disease virus induced breast muscle lymphoma on Rhode island red fowl. Animal Science reporter (international Journal of animal science research) / ISSN 0974-6307 Volume 6, Issue 2.
37. N.D. Singh*, H.S. Banga, P.D. Gadhawe, N.K. Singh¹, S. Deshmukh, **M.N. Mugale** and R.S. Brar. 2012. Typical cases of liver and lung hydatidosis in murrah buffaloes from punjab (india). Applied Biological Research. 14 (2): 223-225.

III. Popular article (1)

1. **Mugale Madhav Nilakanth, Balachandran C. Jaagsiekte**. Madras Veterinary College Annual Volume LXIII 2013.

IV. Patent

Invention: Polymeric liposomal formulation for ocular keratitis

File No. : BD-IPU/PAT/11/2020

Status: Under review

Inventor: Rabi Sankar bhata, Anjali Mishra, Sacin Nashik Sanap, Amol Bisen, Sarvesh Verma, Mukesh Kumar, Gaurav Sharma, Sanjeev Kumar Shukla, Siddart Chopra, **Madhav Nilakanth Mugale** and Praveen Kumar Shukla

Acceptance of Nucleotide sequence (Gene) of Jaagsiekte in GenBank, USA (12)

Region	Jaagsiekte sheep Retrovirus Virus (JSRV) U3 LTR partial region gene sequences				
Sr. No.	Author Name	Genotype Region	Host	Disease	Access. No.
1	Mugale, M.N., Balachandran, C., Dhinakar Raj, G.	U3 LTR	Sheep	Lung cancer	KJ628497
2	Mugale, M.N., Balachandran, C., Dhinakar Raj, G.	U3 LTR	Goat	Lung cancer	KJ628498
Sr. No.	Jaagsiekte sheep Retrovirus Virus (JSRV) ENV (Envelope oncogene) region gene sequences				
Sr. No.	Author Name	Genotype Region	Host	Disease	Access. No.
1.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262786
2.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262787
3.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262788
4.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262789
5.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262790
6.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262791
7.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262792
8.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Sheep	Lung cancer	KM262793
9.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Goat	Lung cancer	KM262794
10.	Mugale, M.N., Balachandran, C., Dhinakar Raj, G. and Pawar R.M.	ENV gene	Goat	Lung cancer	KM262795

Abstract Details (10)

1. **Madhav N. Mugale**, Dhanya Nair, M.M.Gatne Preliminary Observations on Earthworm and vermicompost made from fecal pellet of Ivermectin treated Goat pellets. IIIth Annual conference

of Indian society of Veterinary Pharmacology & Toxicology (ISVPT) & National symposium on, Mathura Uttarpradesh. 2008.

2. **Mugale Madhav Nilakanth1***, Bhupinder Singh Sandhu, Naresh Kumar Sood, T. S. Rai, Charan Kamal Singh & Gupta Kuldeep. Studies on serological response to rabies vaccination in dogs. XXVIII Annual conference of Indian Association of Veterinary Pathologists & National symposium on Innovative research approaches for diagnostic Pathology, Chennai Tamilnadu. 2011.
 3. **Mugale Madhav Nilakanth1***, Bhupinder Singh Sandhu, Naresh Kumar Sood, Charan Kamal Singh & Gupta Kuldeep. Comparison of immunohistochemistry with routine histopathology in determining Negri bodies response in the brain of rabid animals: Quantitative morphology and Sensitivity analysis. XXVIII Annual conference of Indian Association of Veterinary Pathologists & National symposium on Innovative research approaches for diagnostic Pathology, Chennai Tamilnadu. 2011.
 4. **Madhav N. Mugale**, M. Chandrashekar, Abid Ali. 6th International clinical case conference for next generation Veterinarians to face challenges in clinical Practice. Directorate of clinics TANUVAS, Chennai, Tamilnadu, India. 3rd and 4th July 2014.
 5. **Madhav N. Mugale**, C. Balachandran, G. Dhinakar Raj, V. Marodam and Rahul M. Pawar. **Molecular Detection And Characterization Of Jaagsiekte In Naturally Infected Sheep And Goats.** International symposium on Livestock Diseases Affecting Livelihood Options and Global Trade- Strategies and Solutions. XXI Annual Convention of Indian Society For Veterinary Immunology and Biotechnology. 17-19th July. 2014.
 6. **Madhav N. Mugale**, C. Balachandran, V. Marodam and G. Dhinakar Raj. **Pathology and molecular characterization of Jaagsiekte Retro Virus (JSRV) in naturally infected small ruminants"** . 31st Annual conference of Indian Association of Veterinary Pathologists & *National Symposium on "Impact of Climate Change on Pathobiology of Diseases of Animals, Poultry and Fish"*. **November 2014, Anand agriculture University, Gujrat, India.**
 7. **Sreelakshmy Mohandas, Mugale Madhav Nilakanth**, C. Balachandran, R.B. Bind, and R. Somvanshi. A spontaneous study on urinary bladder lesions in cattle and buffaloes. 31st Annual conference of Indian Association of Veterinary Pathologists & *National Symposium on "Impact of Climate Change on Pathobiology of Diseases of Animals, Poultry and Fish"*. 13-15 November 2014, *Anand agriculture University, Gujrat, India.*
- IAVP South zone conference in Kerala and Veterinary Sciences University- Pookode (KVASU), India.**
8. **Mugale Madhav Nilakanth**, c. Balachandran, g. Dhinakar raj, r. Sridhar, S. Selvasubramanian and R.M. Pawar " Ameliorative effect of nanocurcumin in DEN induced hepatocarcinogenesis

in rats: pathological and molecular studies”. Indian Association of Veterinary Pathologists & *National Symposium on “3-5 December 2015, NTR college Gannavaram Andhra Pradesh, India.*

9. Prophylactic effect of nano - *eclipta alba* against den induced hepatocarcinogenicity in rats: pathological and molecular study Mugale Madhav Nilakanth, C. Balachandran, G. Dhinakar Raj, R.Sridhar, S. Selvasubramanian and R.M. Pawar. ”. Indian Association of Veterinary Pathologists & *National Symposium on “9-11 November, 2016, Chhattisgarh Kamdhenu Vishwavidhyalaya, Anjora, Durg, Chhattisgarh, India.*

Reviewer for Scientific Journals (2)

1. Journal of veterinary Science
2. Comparative clinical Pathology
3. Journal of diabetes, obesity and Metabolism

Symposium/ Conference attended (10)

1. Challenges, Scientific Validation & IPR Protection of Indigenous Medicinal Plants Based ITK and Emerging risks to wildlife due to drugs & toxicants & ameliorative measures. VIIIth Annual conference of Indian society of Veterinary Pharmacology & Toxicology (ISVPT) & National symposium on, 2008. Mathura Uttar-Pradesh. 6 -8 Nov. 2008.
2. C L Davis Satellite Seminar on ‘Advanced Descriptive Techniques- Ultrastructure, Cytology and Immunohistochemistry. XXVI Annual conference of Indian Association of Veterinary Pathologists & International symposium, Ludhiana, Punjab. 28-30 Oct. 2009.
3. Innovative research approaches for diagnostic Pathology. In the XXVIII Annual conference of Indian Association of Veterinary Pathologists & National symposium on Innovative research approaches for diagnostic Pathology, Chennai, Tamilnadu on 29-30 Dec. 2012.
4. 6th International clinical case conference for next generation Veterinarians to face challenges in clinical Practice. Directorate of clinics TANUVAS, Chennai, Tamilnadu, India. Directorate of clinics TANUVAS, Chennai, Tamilnadu, India. 3rd to 4th July 2014.

5. International symposium on Livestock Diseases Affecting Livelihood Options and Global Trade- Strategies and Solutions. XXI Annual Convention of Indian Society For Veterinary Immunology and Biotechnology. 17-19th July. 2014.
6. 31st Annual conference of Indian Association of Veterinary Pathologists & *National Symposium on "Impact of Climate Change on Pathobiology of Diseases of Animals, Poultry and Fish"*. Anand agriculture University, Gujrat, India. 13-15 November 2014
7. Poster presentation at Indian Association of Veterinary Pathologist (IAVP) south zone conference – 2015 in Kerala and Veterinary Sciences University- Pookode (KVASU), India.
8. Indian Board of Toxicologic Pathology (IBTP) and Society of Toxicologic Pathology (STPI)- India participated in Toxicologic pathology conference- Hyderabad
9. 2nd Annual symposium: Using high quality rodent disease models in pharma R and D- Vivo Biotech Ltd. Hyderabad.
10. Indian Association of Veterinary Pathologists & National Symposium on "3-5 December 2015, NTR college Gannavaram Andhra Pradesh, India.

Extensin Article

1. In Post graduation: Booklet prepared: Department of Veterinary Pathology, GADVASU, Ludhiana. Urine examination in all types of animal. ICAR sponsored winter school programme.

SEMINAR DELIVERED/ POSTER PRESENTED (10)

1. Seminar delivered on 'Role of Apoptosis in Cancer Diagnosis' during M.V.Sc (II Yr) 2010.
2. Poster Presentation in "VIIIth Annual conference of Indian society of Veterinary Pharmacology & Toxicology (ISVPT) & National symposium on "Challenges, Scientific Validation & IPR Protection of Indigenous Medicinal Plants Based ITK and Emerging risks to wildlife due to drugs & toxicants & ameliorative measures". November 06-08, 2008. Mathura Uttarpradesh.
3. In Post- graduation study:- Oral presentation in XXVIII Annual conference of Indian Association of Veterinary Pathologists & National symposium on Innovative research approaches for diagnostic Pathology, 2011 On the topic "Studies on serological response to rabies vaccination in dogs". December 2011-2012 in Chennai Tamilnadu.
4. In Post- graduation study:- Poster presentation in XXVIII Annual conference of Indian Association of Veterinary Pathologists & National symposium on Innovative research approaches for diagnostic Pathology, 2011 on topic "Comaprison of

immunohistochemistry with routine histopathology in determining Negri bodies response in the brain of rabid animals: Quantitative morphology and Sensitivity analysis”. December 2011-2012 in Chennai Tamilnadu.

5. Doctoral Seminar delivered on “Prognostic and diagnostic molecular biomarkers and its significance in animal Cancer” during Ph.D., II nd Yr, 2013.
6. Doctoral Seminar delivered on “EMERGING & RE-EMERGING DISEASES OF PIGS” during Ph.D., II nd Yr, 2013.
7. Oral presentation on the Molecular Detection And Characterization Of Jaagsiekte In Naturally Infected Sheep And Goats. In the international symposium on Livestock Diseases Affecting Livelihood Options and Global Trade- Strategies and Solutions. XXI Annual Convention of Indian Society For Veterinary Immunology and Biotechnology. 17-19th July. 2014. MVC, TANUVAS, Chennai.
8. Oral presentation on the “Pathology and molecular characterization of Jaagsiekte Retro Virus (JSRV) in naturally infected small ruminants” . 31st Annual conference of Indian Association of Veterinary Pathologists & *National Symposium on “Impact of Climate Change on Pathobiology of Diseases of Animals, Poultry and Fish”*. 13-15 November 2014, Anand agriculture University, Gujrat, India
9. Poster presentation at Indian Association of Veterinary Pathologist (IAVP) south zone conference – 2015 in Kerala and Veterinary Sciences University- Pookode (KVASU), India.
10. Oral presentation on the “Ameliorative effect of nanocurcumin in DEN induced hepatocarcinogenesis in rats: Pathological and molecular studies” . 32st Annual conference of Indian Association of Veterinary Pathologists & *National Symposium on “3-5 December 2015, NTR college Gannavaram Andhra Pradesh, India.*

Details of extracurricular Achievements and conference

S.No	Activity	Place	During	Days
1	Chennai Science City Festival Participation	Chennai	2013	4
2	National Service Scheme	BVC, Mumbai	2009	7
3	Certificate of honour for Blood donation (9 times)	Mumbai	2006-2010	4 years

ACADEMIC ACHIEVEMENTS

1. **IAVP Young Scientist Award- 9-11 Nov. 2016**
2. **Best Ph.D. Thesis Award- 2016**
3. **IAVP Young Scientist Award- 3-5 Dec. 2015**
4. **IAVP - Molecular oncology(Dr. S. Ramchandran Award)award -2014**
5. **IAVP “Best poster presentation (First) award – 2015:** south zone conference KVASU Keral.
6. Certificate of Appreciation For Essay Writing “ **The role of Vitamin E and Selenium in Mastitis**”. Mumbai 2008.
7. District level “**Jivan Shikshan Examination**” Passed in 9th class.
8. Secured **185thrank** in all India Post-graduate entrance examination (**ICAR-JRF exam**) conducted by Indian Council of Agricultural Research (ICAR), New Delhi 2009.
9. Maintained**first class** throughout academic career.
10. **Twice 3 days GLP Audit Experince in preclinical lab Department of R and D** in 2011 And 2012 in Venus Medicine Research Centre Chandigarh, India.
11. **TANUVAS Univiersity Merit Scholership in PhD from 2012 to 2015.**
12. Cleared “International English Language Learning System “ (**IELTS**) Exam on 22 March, 2013.
13. Qualified **ICAR- NET** in Veterinary Pathology 2014 (I).

HIGHLIGHTS AND STRENGTHS

- Good communication skill.
- Willingness to learn & belief in the capability of team.
- Proper planning of biological experiments.
- Capturing biological data, Statistical analsis (SPSS, Systat), Preparation of report, Interpretation of result and its documentation.
- Finishing the project within pre-determined time line.
- Reliable & Reproducible biological data generation.

Details of Training/ Workshop attended (23)

Sl. No	Title	Attended		Days	Place
		From	To		

1.	NGCMA- Sensitization workshop on GLP at New Delhi	17/05/18	18/05/18	2	NGCMA, New Delhi
2.	CSIR- Induction Training Programme	15/01/2018	24/01/2018	10	CSIR-HRDC, Ghaziabad
3.	Care and Management of Experimental Animals – The Role of IAEC	10/02/2017	10/02/2017	1	Vivo Biotech Ltd. Hyderabad
4.	GLP- OECD principles of Good Laboratory Practice	28/12/2016	28/12/2016	1	Vivo Biotech Ltd. Hyderabad
5.	Workshop: Indian Board of Toxicologic Pathology (IBTP) and Society of Toxicologic Pathology (STPI)- India	23/05/2016	24/05/2016	2	Vadodara
6.	FELASA- Certificate course on Laboratory Animal Science (CLAS)	22.02.16	03.03.16	10	MVC, Chennai
7.	Systat software training	02.02.16	02.02.16	1	Vivo Biotech Ltd. Hyderabad
7.	GLP- OECD principles of Good Laboratory Practice	29.12.2015	29.12.2015	1	Vivo Biotech Ltd. Hyderabad
8.	Operational training on Autoprocessing histopathology instrument- Leica Microsystems processor	16.11.2015	16.11.2015	1	Vivo Biotech Ltd. Hyderabad
9.	Operational training on Sartorius weighing balance normal and animal mode weighing balance	04.11.2015 and 05.09.2015	04.11.2015 and 05.09.2015	2	Vivo Biotech Ltd. Hyderabad
10.	GLP- OECD principles of Good Laboratory Practice	09.09.2015	09.09.2015	1	Vivo Biotech Ltd. Hyderabad
11.	Symposium: Use of high quality animals in human research	26/07/2015	26/07/2015	1	Hyderabad
12.	Workshop: Indian Board of Toxicologic Pathology (IBTP) and Society of Toxicologic Pathology (STPI)- India	11/07/2015	12/07/2015	2	Hydrabad
13.	Institutional Animal Ethics committee (IAEC)- Role and Responsibilities	13.06.2015	13.06.2015	1	Vivo Biotech Ltd. Hyderabad
14.	Nano- Medicine formulation and characterization	Nov. 2013	Feb. 2014	75	CSIR- IICT Hyderabad
15.	Motivational Entrepreneurial Training – Inspire	04.10.2013	05.10.2013	2	Madras Veterinary College, Chennai

16.	Publishing in International Research Journal	18.03.2013	18.03.2013	1	Madras Veterinary College, Chennai
17.	Information Retrieval System	07.11.2012	07.11.2012	1	Madras Veterinary College, Chennai
18.	Basics & Ethics of Laboratory animal Experimentation	15.06.2009	19.06.2009	4	Bombay Veterinary college Mumbai
19.	Fungal Enzymes and their Application	28.11.2008	29.11.2008	2	Bhavans College Mumbai
20.	Diagnostic Electrocardiography in Dogs and Cats.	28.05.2008	31.05.2008	4	Bombay Veterinary college Mumbai
21.	Certificate of Merit: Horse Riding Course	Aug. 2007	Oct. 2007	90	Mahalakshmi, Horce race course, Mumbai
22.	Yoga Training	May 2005	Aug. 2005	120	Bombay Veterinary college Mumbai
23.	Basic Computer: Windows, MS-Office & Internet	01.03.2004	22.03.2004	22	Aptech Computer Education Latur

PERSONAL PROFILE

1. Date of Birth : Nov. 25th ,1983
2. Father's name : Shri. Nilakanth Tulashiram Mugale
3. Language known : English, Hindi, Marathi, Punjabi
4. Gender : Male
5. Category : Hindu- Maratha (General)
6. Nationality : Indian
7. Marital status : Married
8. Permanent Address: At/po. Kadadora Post. Balsoor Tq. Omerga Dist:- Osmanabad State:- Maharashtra-413604.
9. Present address : Dr. Madhav Nilakanth Mugale, E-06, CSIR-CDRI quarters, CDRI campus, Janakipram Extension, Janakipram, Lucknow- 226031.

REFERENCES

- ✚ **Prof. Tapas Kumar Kundu**
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Sector 10, Jankipuram Extension, Sitapur Road,
Lucknow, Uttar Pradesh, India - 226031
director@cdri.res.in
- ✚ **Ph.D. Guide (Chairman)**
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+ Dr. Dr. G. Dhinakar Raj (Ph.D.)

Director,

TRPVB & Professor of Animal Biotechnology, TANUVAS

Madras Veterinary College, Chennai-7

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DECLARATION

I here by declare that the above information in this resume are true to the best of my knowledge and belief.

Dr. Madhav Nilakanth Mugale

(M.V.Sc., PhD)

Senior Scientist,

CSIR-CDRI, Lucknow, U.P.

226031