

Dr. Shonam Tamrakar

Veterinary Pathologist
Centre for Toxicology & Developmental Research,
Sri Ramachandra Institute of Higher
Education & Research,
PORUR,
CHENNAI – 600 116.
TAMILNADU STATE,
INDIA

BACKGROUND / Expertise

- ✓ As a Veterinary Pathologist, expertise in gross and histopathological examination of lab animals from pre-clinical toxicity studies/ chemical safety studies (sub-chronic, chronic and reproductive toxicology) as well as Pharmacology Studies (GLP & Academic Research)
- ✓ As a Veterinarian taking care of Animal House activities of GLP and Academic facility in compliance with animal welfare guidelines (CPCSEA, the Indian animal welfare organization, India) and part of Research Team.
- ✓ Academic teaching activity which includes teaching faculty for M.Sc. (ART) and Demonstration/ Practical's for MD (Pharm), M. Pharm, B.Sc.&M.Sc. (Clinical Research), MBBS and other MD Students.

EDUCATIONAL QUALIFICATION:

Degree	Year	Area of Specialisation	Institution/ University
PhD	(2020-2024-Pursuing)	Preclinical Research in Neurodevelopmental disorder	SHRIHER, Chennai,T.N.
M.V.Sc	2012	Veterinary Pathology	CGKV,DURG , C.G.
B. V. Sc.	2010	Veterinary Science & Animal Husbandry	IGKV,RAIPUR, C.G.

EXPERIENCE

- ✓ Veterinary Pathologist , Centre for Toxicology and Developmental Research, SHRIHER, Chennai, From 30/01/2016 – till date
- ✓ Veterinary Pathologist, Venus remedies (R&D) Baddi, H.P., From 2014 to 2015
- ✓ Veterinary Surgeon, Pet Health Clinic, Raipur, C.G. From 2013 to 2014
- ✓ Assistant Professor, Veterinary College, Rajasthan, From 2012 to 2013

RESEARCH ARTICLES PUBLISHED:

1. **Shonam Tamrakar**, M. Mondal, R.C. Ghosh and N. Sahu. "Pathomorphological alteration of sub-acute selenium toxicity in broilers" Indian Journal of Veterinary Pathol., 38(4) 103-106, 2014. (NAAS rating: 5.48)
2. **Shonam Tamrakar**, M. Mondal, R.C. Ghosh and N. Sahu. Immunotoxic Effect of Selenium Following Subacute Exposure in Broilers. *Int.J.Curr.Microbiol.App.Sci* (2018) 7(9):1630-1636 (NAAS Score: 5.38)
3. N. Sahu, M. Mondal, R.C. Ghosh and **Shonam Tamrakar**. Evaluation of protective potential of *Cajanus indicus* in experimental aflatoxin toxicity in broilers. Indian Journal of Veterinary Pathol., 38(4) 261-265, 2014 (NAAS rating: 5.48)
4. N. Sahu, M. Mondal, R.C. Ghosh and **Shonam Tamrakar**. Immunopathological Evaluation of Protective Potential of *Cajanus indicus* on Aflatoxin Induced Toxicity in Broilers. *Int.J.Curr.Microbiol.App.Sci* (2018) 7(9): 1637-1642 (NAAS Score: 5.38)
5. Mohankrishna Ghanta, Elango Panchanathan, Bhaskar V. K.S. Lakkakula, Anbumani Narayanaswamy, Yogeshkumar Murkunde and **Shonam Tamrakar**. 1 h-(1,2, 4) oxadiazolo (4,3-a) quinoxalin-1- one attenuates Oxidative trauma and recperate beam walk and adhesive removal behavior in MPTP Parkinsonian Mice Model. *Biomed Pharmacol J* 2018; 11(4).(NAAS Score: 4.62)

E-book- “Toxicology of Selenium in broilers”**Shonam Tamrakar**, M. Mondal,
Lambert Academic Publishing. ISBN: 978-613-9-96863-3

Lead Papers-

- ✓ Visceral gout- a rising problem in poultry (2nd Second central zone meeting of Indian Association of veterinary pathologists and national seminar-2011, Durg)
- ✓ Mark's disease- a challenge to poultry industry (2nd Second central zone meeting of Indian Association of veterinary pathologists and national seminar-2011, Durg)
- ✓ Immunity and immunosuppression in poultry
- ✓ The challenge of respiratory diseases complex in poultry (31st Annual conference of Indian association of Veterinary Pathologist, 13th -14th November, 2014)

Abstracts-

- ✓ “Toxicological Pathology in Preclinical Research”, Zonal Conference - 2021 & National Symposium – Indian Association of Veterinary Pathologist
- ✓ Pathomorphological studies of colibacillosis in poultry
- ✓ "Toxicopathological studies on selenium in broilers "Indian journal of veterinary pathology , Year:2013, volume 37, issue: 1, 110-110
- ✓ Hematobiochemical alteration of induced sub-acute selenium toxicity in Broilers
- ✓ Pathomorphological alteration of subacute selenium toxicity in Broilers
- ✓ Immunotoxic effect of selenium following sub-acute exposure in broilers
- ✓ Evaluation of protective potential of *Cajanus indicus* in experimental aflatoxin toxicity in broilers

RESEARCH EXPERIENCE:

- ✓ Study Pathologist for Repeated dose toxicity (14, 28 and 90 days) studies in rat, mice, rabbit by various routes viz. oral, dermal, intramuscular, intravenous, subcutaneous etc.

- ✓ Study Pathologist for Acute toxicity studies in rat, mice, rabbit, and guinea pig by various routes viz. oral, dermal, intramuscular, intravenous, subcutaneous etc.
- ✓ Animal models/ Efficacy studies development and/ validation - Robust animal model of Periventricular leukomalacia (PVL), Oral sub mucosal Fibrosis, Antiarthritic , Irradiation , Neuropathogenicity effect in peripheral nerve Parkinson's induced neuropathy , Colitis , Nephrotoxicity , Antidiabetic , High fat diet , Tumor xenograft (lung cancer and mammary gland tumor stem cell), Antistress , Glioblastoma/ gliosis , Histopathology of eye and skin in different experiment models, Wound healing etc.
- ✓ Complete management, use and care of animals including animal welfare as per CPCSEA guidelines, Maintenance of Animal Facility: Procurement of animals for animal facility, Receipt of animals at facility and quarantine procedures, Health examination of animals and Issuing of animals to study etc.

STUDENTS GUIDED FOR RESEARCH :

- ✓ Nil

TRAINING - NATIONAL LEVEL

- ✓ Toxicologic Pathology training program organised by STP-India
- ✓ “Academic Writing” (NPTEL-Swayam Course) Certified with 76%
- ✓ “Research Ethics” (NPTEL-Swayam Course) Certified with 70%
- ✓ “Health Research Fundamental” (NPTEL-Swayam Course) Certified with 70%
- ✓ GLP training at CEFTE, SHRIHER, Chennai

SYMPOSIUM/SEMINARS ATTENDED

- ✓ Second central zone meeting of Indian Association of veterinary pathologists and national seminar-2011, Durg.
- ✓ XXIX Annual Conference of Indian Association of veterinary pathologists-2012, Hissar.
- ✓ 30th Annual conference of Indian Association of veterinary pathologists and 4th Annual conference of Indian college of veterinary Pathologist, Bhubaneswar, Odisha-2013
- ✓ Workshop entitled "Seventh conference and continued education program on Toxicologic pathology of dermal, juvenile and immune systems. 26-28 October 2018. Hyderabad, India
- ✓ Regulatory perspective in translational research" organized by Sriramachandra Medical College and Research Institute. May 2018

PAPERS PRESENTED IN NATIONAL/INTERNATIONAL SEMINARS

- ✓ Poster presentation - " Hematobiochemical alterations of induced subacute selenium toxicity in broilers " in conference of Indian association of veterinary pathologist, Bhubaneswar, Odisha. 2013
- ✓ Oral presentation - " Pathomorphological alteration of subacute selenium in broilers". Indian poultry science association and national symposium, IVRI, Bareilly. 2013

THESIS WORK DONE DURING POST GRADUATION/PHD

- ✓ "Toxicology of Selenium in broilers"-PG Thesis work

PROJECTS Handled

Nil

AWARDS RECEIVED

Nil

INNOVATIVE ACTIVITIES/INTERVENTIONS IN THE AREA OF EXPERTISE

- ✓ PVL Robust animal model development and validation
- ✓ Visceral and skeleton evaluation for Rat Teratology study
- ✓ Oral sub mucosal fibrosis Rat model validation and treatment Surgical animal models for Renal hypertension study
- ✓ Histopathology of brain for neurodegenerative and neurodevelopmental animal models
- ✓ Participated in many camps for the treatments, vaccination and castration of animals in rural areas of Chhattisgarh

MEMBERSHIP

Membership of Professional Societies

- ✓ Indian Association of Veterinary Pathology (IAVP)
- ✓ Society of Toxicologic Pathology, Membership (STP-I)
- ✓ Registered with Veterinary Council of India
- ✓ Registered with Chhattisgarh state Veterinary Council

Member of the Institutional Committees,

- ✓ IAEC Member as Veterinarian, CEFTE, SHRIHER-Chennai, From 2016 to 2019