

CURRICULUM VITAE

Name: Dr. Harsh R. Patel (Ph. D.)

Assistant Professor, MB Veterinary College,
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PERSONAL DETAILS:

- **Name:** Dr. Harsh Rakeshkumar Patel
- **Father's name:** Rakeshkumar
- **Date of Birth:** 17th Dec, 1997
- **Hobbies:** Debate, Cricket, Badminton
- **Marital status:** Married
- **Language known:** English, Gujarati, Hindi
- **Gujarat Veterinary Council Registration No.:** 4751

CAREER OBJECTIVE:

- To pursue a challenging career in the growing pharmaceutical company

PROFILE SNAPSHOT:

- Sound communicator with good analytical skill, problem solving attitude, capacity to work in dynamic team

PROFESSIONAL SKILLS

- Handling and standardization of various instruments: HPLC, HPTLC, Real time PCR, Spectrophotometer, Centrifuge machine, ELISA plate reader, Actophotometer, Hematology Analyzer, Full automatic serum biochemical analyzer, Thermal cycler, Gel electrophoresis.
- Handling of laboratory animals: Zebrafish, Rat, Mice, Poultry, Rabbit
- Aware of all route of drug administration.
- Post mortem examination of laboratory animals and histopathological techniques.
- Molecular techniques: PCR and qRT-PCR.
- Plant extraction and fractionation methods.
- Knowledge of OECD and ICH guidelines.

EDUCATION DETAILS

Name of Degree	Institute	University	Year of Passing	Percentage / CGPA	Remarks
Ph. D. (Veterinary Pharmacology and Toxicology)	College of Veterinary Science and Animal Husbandry Junagadh	Kamdhenu University Gujarat	2025	8.37	First class with Distinction
M.V.Sc. (Veterinary Pharmacology and Toxicology)	College of Veterinary Science and Animal Husbandry Junagadh	Kamdhenu University Gujarat	2022	8.33	First class with Distinction
B. V. Sc. & A. H.	College of Veterinary Science and Animal Husbandry Junagadh	Junagadh Agricultural University	2020	6.746	Second division
H. S. C.	School of Achiever, Gandhinagar	G.H.S.E.B	2015	62.2 %	B2
S. S. C.	S. D. Vyas High school, Takatuka	G.H.S.E.B	2013	87 %	A2

POST GRADUATE RESEARCH PROJECT:

- “Evaluation of toxic effects of acrylamide on gill of adult male zebrafish”

POST GRADUATE SEMINAR PRESENTATION:

- “Biomarkers in ecotoxicology: An overview”

DOCTORAL SEMINAR PRESENTATION:

- Major: “AI in Drug Discovery and Development”
- Minor: “Blood Biopsy: An Overview”

DOCTORAL RESEARCH PROJECT:

- “Evaluation of Toxicity of Lithium Carbonate and Lead Acetate following Single and Combined Exposure in Rats”

RESEARCH AND REVIEW ARTICLE PUBLICATION:

1. Tank, M. R., Patel, H. B., Patel, H. R., Delvadiya, R. S., Patel, U. D., Fefar, D. T., & Chauhan, J. M. (2024). Long-term exposure to Bisphenol-A causes oxidative stress-related alterations at the genetic and cellular levels in the mature ovary of adult zebrafish. *Drug and Chemical Toxicology*, 1-11.
2. Patel, H. R., Patel, U. D., Chauhan, J. M., Humbal, B. R., & Patel, H. B. (2024). Developmental toxicity in zebrafish embryos exposed to single, binary, and tertiary

mixtures of Cd, Pb, and As. *Toxicological & Environmental Chemistry*, 106(1-10), 48-71.

3. Patel, H. R., Patel, H. B., Paida, B. V., Patel, P. M., Ramchandani, D. M., Patel, U. D., & Modi, C. M. (2024). Evaluation of Respiratory Toxicity Potential of Acrylamide in Zebrafish: Oxidative Stress Parameters, mRNAs Expression, and Histo-morphological Changes in Gills. *Toxicology International*, 477-487.
4. Delvadiya, R. S., Patel, U. D., Patel, H. R., Patel, H. B., & Singh, V. K. (2024). Zebrafish embryos exhibited mortality, altered hatchability, and developmental abnormalities following tributyltin exposure. *Exploratory Animal & Medical Research*, 14(1).
5. Pavan M Patel, Chirag M Modi, Harsh R Patel, Divya M Ramchandani, Bhulesh V Paida, Harshad B Patel and Urvesh D Patel. Toxicity assessment of sub-acute silver nitrate exposure on adult zebrafish behaviour. *Int. J. Adv. Biochem. Res.* 2024; 8(4S):387-399. DOI: 10.33545/26174693.2024.v8.i4Se.1018
6. Ramchandani, D. M., Modi, C. M., Patel, P. M., Patel, H. B., Patel, U. D., Paida, B. V., & Patel, H. R. (2023). Silver nitrate damages the ovary of adult zebrafish: Evaluation of oxidative stress, expression of oxidative stress-related genes and histological changes in ovary.
7. Patel, P. M., Modi, C. M., Ramchandani, D. M., Patel, U. D., Patel, H. B., Patel, H. R., & Bhadaniya, A. R. (2023). Histopathological evaluation of brain and retina of adult zebrafish exposed to silver nitrate. *Exploratory Animal & Medical Research*, 13(1).
8. Patel, P. M., Modi, C. M., Patel, H. B., Patel, U. D., Ramchandani, D. M., Patel, H. R., & Paida, B. V. (2023). Phytosome: An emerging technique for improving herbal drug delivery. *J. Phytopharm*, 12(1), 51-8.
9. Patel Harsh R, Patel Harshad B, Paida Bhulesh V, Patel Pavan M, Ramchandani Divya M, Patel Urvesh D, and Modi Chirag M (2022). Assessment of respiratory toxicity following 28 days exposure of acrylamide in adult male zebrafish: Histological impairment in gills, *The Pharma Innovation Journal*, 11(12): 1005-1008.
10. Divya M Ramchandani, Chirag M Modi, Urvesh D Patel, Harshad B Patel, Bhulesh V Paida, Pavan M Patel, and Harsh R Patel (2022). Evaluation of behavioral alterations in

zebrafish following exposure to silver nitrate. *The Pharma Innovation Journal*, 11(12): 1958-1963.

11. Modi, C. M., Patel, H. B., Patel, U. D., Paidia, B. V., Ramchandani, D., Patel, P. M., & Patel, H. R. (2021). Anti-inflammatory and antioxidant potential of *Azadirachta Indica* flower. *Journal of Veterinary Pharmacology and Toxicology*. 20(1): 13-17.
12. H. R. Patel, H. B. Patel, C. M. Modi, U. D. Patel, B. V. Paidia, P. M. Patel, & D. M. Ramchandani (2023). Biomarkers in ecotoxicology: An overview. *Journal of Veterinary Pharmacology and Toxicology*. 22(2): 1-9.
13. Parmar MR, Odedra MD, Savsani HH, Gamit KC, Patel HR. Effect of supplementing probiotic, prebiotic and synbiotic on blood antioxidant activity and mineral profile of weaned gir calves (2025). *International Journal of Veterinary Sciences and Animal Husbandry*. 10(9): 261-264.

POPULAR ARTICLE AND ABSTRACT SUBMISSION

- Publish the 5 popular article and submitted the 5 abstract

SOFT SKILL:

- Knowledge about MS Word, MS Power Point, MS Excel and other computer works.

EXTRA CO-CURRICULAR ACTIVITIES:

- Reviewer of scientific manuscripts for Acta Scintific Veterinary Sciences (2 manuscripts), Journal of Research in Veterinary Sciences (2 manuscripts), and Open Veterinary Journal (1 manuscripts)
- Got 1st rank in poster presentation in ISVPT Conference in 2023
- Got 1st rank in oral presentation in ISVPT Conference in 2023
- Dr. Arvind Kotecha Memorial Gold Plated Silver Medal in M. V. Sc in 2023
- Got 3rd rank in Poster Presentation during Agri-Gujarat Expo 2021
- Culture certificate of mime 2nd rank
- Culture certificate of drama 1st rank
- Participate in ZyduS all India Veterinary College Badminton Championship at Pantnagar
- ZyduS AH 8th All India Drawing & Painting Competition-2015 certificate
- Debate Competition certificate (2nd rank), Essay Competition certificate (1st rank)
- NSS volunteer

PROFESSIONAL DEVELOPMENT:

Sr. No.	Program Attended	Name of Training/Seminar	Year	Organizer
1	National training	Automation and advances in chromatography	6-7/9/2019	College of Veterinary Science & Animal Husbandry, Junagadh, Kamdhenu University
2	Virtual National Workshop	Application of HPLC in pharmacokinetic studies	4-6/01/2021	NTR College of Veterinary Science, Gannavaram
3	National Webinar	Pre-clinical Imaging Biomarker in Drug Discovery	12/12/2020	Indian Society of Veterinary Pharmacology and Toxicology
4	National Webinar	Inhalation Toxicity and Its Risk Assessment	06/02/2021	Indian Society of Veterinary Pharmacology and Toxicology
5	Webinar	GLP Implementation Process	26/05/2021	Pacific Toxicology Consulting in association with ABCD International
6	Webinar	HPLC – Fundamentals and Troubleshooting	20-21/12/2021	Indian Pharmaceutical Association- Gujarat State Branch
7	International Webinar	International Webinar and Memorial Orations of ISVPT	21/12/2021	Department of Veterinary Pharmacology and Toxicology, Veterinary College and Research Institute, Namakkal
8	National Seminar	Ethical Practice in Publication and Use of Animals in Research and Development	19/02/2022	College of Veterinary Science & Animal Husbandry, Odisha of Agricultural and Technology
9	Round Table Meet	Antibiotics: An Action to Awareness	24/11/2021	College of Veterinary Science & Animal Husbandry, Kamdhenu University, Sardarkrushinagar, Gujarat.