

Curriculum Vitae

Dr. Rakesh Tirkey

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❖ **Academic Records:**

- ✚ **Ph.D. (2023)** from University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.), India-492010
- ✚ **M. Pharm. In Pharmacology** (2010) from Nandha College of pharmacy; The Tamilnadu Dr. M.G.R. Medical University, Chennai.
- ✚ **B. Pharm.** (2007) from SLT institute of pharmaceutical sciences, Guru Ghasidas University Bilaspur, (C.G.).

❖ **Experience:**

- ✚ **Research experience:** I have achieved 11 years research experience.
- ✚ **Teaching experience:** 12 years

❖ **Awards:**

- ✚ Best poster award in APTI Central Zone National Seminar (APTI Women Forum) 24-26 March 2017.
- ✚ Best Poster Award in ICMR sponsored National Seminar, 5-6 April 2017.

❖ **Patents (published):**

1. Optical-Electrochemical Method for Determining the Concentration of Chlorine Ions in Water Body. (Application no. 202221038732 A /date 22/07/2022)
2. Chemical Biology of Muscle Calcium that Targets Gram-Positive Pathogens. (Application no. 202221046289 A /date 26/08/2022)

❖ **Project:**

S.No.	Principal Investigator	Title	Amount
1.	Dr. Rakesh Tirkey	Development of cost analysis-based tools for enhancing the accessibility of medicine in the tribal population of Chhattisgarh.	35.87 lakhs

❖ **Publications:**

Books:

1. Human Anatomy and Physiology-I, 2022, ISBN -9789395936989
2. A text book of Research Methodology in Pharmacy, 2024, ISBN-9788197016967

Research Papers:

1. "Traditional Herbal Medicines As a Complementary Treatment for Monkeypox", International Journal of Pharmaceutical Quality Assurance, June 2023, 14(2):440-445
2. "The Impact of Temperature on A Variety of Chemical Processes", European chemical bulletin, May 2023, 12 (1), 2434 –2440.
3. "Ethnopharmacological Insights on Therapeutic Potential of *Gloriosa superba*", Current traditional medicine, December, 2022, volume 9, issue 5.
4. "An Observational Study of Traditional and Reported Health Benefits of Ethnomedicinal Plant *Amaranth* Found in Sarguja Chhattisgarh", International Journal of Biology, Pharmacy and allied sciences, October 2021, 10(10): 235-242.
5. "Potential of Neoteric Phytoactives and Herbs for Targeting Pathophysiological Modules of Arthritis", Bulletin of Environment, Pharmacology and Life Sciences, April 2021, Vol 10[5]: 273-281.
6. "Promising herbs for the management of inflammation associated with various pathological conditions - A Review", International Journal of Research in Pharmaceutical Sciences, December 2020, 11 (SPL4), 3084-3091.
7. Chromatographic Fingerprinting and Quantitative Analysis of Marker in the Extract of *Gloriosa superba* Tubers Collected from Some Region of Chhattisgarh", International Journal of Pharmaceutical Investigation, August 2020, 10(3):374-378.
8. "Screening for phytochemical, flavonoid content, antioxidant and anthelmintic potential of *Sida spinosa*", International Journal of Pharmaceutical Sciences and Research, December 2019, Vol. 10(12): 5587-5591.
9. "In-vitro Screening for Anthelmintic Potential of *Crotalaria retusa* on *Pheretima posthuma*", Journal of Drug Delivery & Therapeutics. August 2019; 9(4-A):340-343.
10. "Glimpses of Ethnopharmacological Approaches to Treat Acne", Research Journal of Topical and Cosmetic Sciences, Jan.-June 2017, 8(1): page 40-49.
11. "Effect of *Cocculus hirsutus* leaves extract on freunds complete adjuvant and formaldehyde induced Arthritis." International Research Journal of Pharmacy, 2012, 3(2), 267-27.

❖ **Paper Presentations**

- "Study the effect of *Cocculus hirsutus* leaves extract on freunds adjuvant and formaldehyde induced arthritis", 65th Indian Pharmaceutical Congress, New Delhi, 20-22 Dec, 2013, D-102.
- Evaluation of *in-vitro* Anthelmintic activity of *Crotalaria retusa* leaves extract on *Pheretima posthuma*. International Conference "Frontiers in Pharmaceutical Science & Research" with theme "Cutting Edge

Technology in New Drug Discovery & Drug Delivery Systems" organized by Columbia Institute of Pharmacy, 11-12th October 2014.

- "Evaluation of Antidiabetic activity of *Celastrus dependens* in streptozotocin induced diabetic rats" in National seminar on "Prospects of Pharmacy Education, November 19-21, 2015.
- 'In-vitro evaluation of anthelmintic and antioxidant potential of bahunia acuminata leaves'' 66th Indian Pharmaceutical Congress, Hyderabad, 23-25 January, 2015.
- "Evaluation of Anti-diabetic and Antioxidant activity of *Xantolis tomentosa* extract" in 3rd International Congress of Society for Ethnopharmacology, India, Ethnopharmacology and Evaluation of Medicinal Plants – Global Perspectives, 19 - 21 February 2016
- "*In-vitro* Evaluation of Anthelmintic and Antioxidant effects of *Adiantum incisum*" in, National seminar on "Traditional Knowledge and Biodiversity of Chhattisgarh" Organized at royal college of Pharmacy, Raipur, 4-5 March 2016.
- "Evaluation of Antidiabetic activity of *Gisekia pharnaceoides* in streptozotocin induced diabetic rats" in Organized at Columbia Institute of Pharmacy, Raipur Sponsored by Chhattisgarh council of Science and Technology, 5 -06 March 2016.
- "Evaluation of Antimicrobial and Antioxidant potential of *Desmodium laxiflorum* leaves extract" in 68th Indian Pharmaceutical Congress on "Quality Pharmaceuticals and Patient Welfare," at AU College of Pharmaceutical Sciences, Andhra University, Vishakhapatnam, A.P., 16-18 December 2016.
- "In-vitro Immunomodulatory Activity of extracts of *Crotalaria retusa* on Human Neutrophils" in ICMR sponsored national conference on "Recent Trends in Nanotechnology in Biomedical Drug Research" at Himachal Institute of Pharmaceutical Education & Research, Nadaun, Himachal Pradesh, 25-26 February 2017.
- "Role of herbal extract of *Adiantum incisum* in modulation of cellular immune responses" in APTI Central Zone National Seminar (APTI Women Forum) on "Treat to target approaches for dermal disorders: New Prospectives and challenges" 24-26 March 2017.
- "Effect of herbal extract in modulation of cellular immune responses" in ICMR Sponsored National Seminar on the theme, "Prospects and Avenues for In-Vivo Studies on Animal Models and Human Volunteers for treatment of Oral Cancer." At Shri Rawatpura Sarkar Institute of Pharmacy, Kumhari, Durg (C.G.), 5th– 6th April 2017.
- "Phytoconstituents as an Emerging Therapeutic Alternative for the Treatment of Epilepsy" in 2nd International Conference on "Frontiers in Pharmaceutical Science & Research (PharmSci-2017)" with theme: "Advances in Development, Delivery Systems and Clinical Monitoring of Drugs" 23-24 September 2017 , Organized By Columbia Institute of Pharmacy. Raipur

- “In vitro and In vivo evaluation of immunomodulatory effect of *Alangium salvifolium* extract” in International Conference on “fostering interdisciplinary research in medicines”, 19-21 January 2019 At Pt. Ravishankar Shukla University, Raipur (C.G.)
- “Suppressive Effect of Phytoconstituents on the Pathophysiological Targets of Atopic dermatitis” *bareilly* 30 november 2019
- “Potential of herbal extract in modulation of cell mediated immune response” in 3rd International conference on “frontiers in Pharmaceutical Sciences and Research” theme “Integrating Pharmaceutical Technology with other branch of sciences for Health Management”, 1-2 February, 2020, organized by columbia institute of Pharmacy, Tekari, Raipur (C.G.).
- “Potential of Indian medicinal plants for the modulation of cell mediated and humoral immune response” in Atomic Energy Regulatory Board Sponsored National Seminar, 15th February 2020, organized by Royal college of Pharmacy, Raipur.
- “Quantitative analysis of alkaloidal marker in *Gloriosa superba* tuber extract through High Performance Thin Layer Chromatographic Technique” in International Conference on “Current Perspectives of Pharmacovigilance in Drug Discovery and Development” Organized by Kalinga University, Raipur, Chhattisgarh. 7-8 April 2022.

❖ Oral presentations

- “Anthelmintic and Antioxidant Screening of *Buchanania lanzan* Leaves” AICTE sponsored national seminar on “Advances and avenues in novel drug delivery system for therapeutically effective plant actives” 29-30th October 2014 at university Institute of pharmacy, Pt. RSU Raipur, Chhattishgarh, (India).
- “Phytochemical and Anthelmintic screening of *Albizia lebbeck* leave extract” CGCOST sponsored national seminar on regulatory issues of herbal drugs to promote its commercialization in Chhattisgarh 21-22nd of November, 2014