

Academic Profile

Dr. Hariprasad M. Paikrao

Assistant Professor

Department of Forensic Biology,

Government Institute of Forensic Science Nagpur

M.Sc. Ph.D. Biotechnology (NET-CSIR–UGC, NET-ICAR)

Email: harish.paikrao13@gmail.com, harish.paikrao@yahoo.co.in

Mob. 8793128820

Website: <https://sites.google.com/view/paikraohm/home>

YouTube Channel: [Dr. HARIPRASAD PAIKRAO](https://www.youtube.com/channel/UCcNPf9SEoCxI_YXmBBi0_JQ)

https://www.youtube.com/channel/UCcNPf9SEoCxI_YXmBBi0_JQ



EDUCATIONAL QUALIFICATION

- 1. Ph.D. Biotechnology (2016)**
 - 2. Qualified ARS-NET in Agriculture Biotechnology (2014).**
 - 3. Qualified CSIR-UGC NET (LS) (2009).**
 - 4. M.Sc. (Biotechnology) from RTM Nagpur University.**
 - 5. B.Sc. from SRTMU Nanded University.**
-

WORK EXPERIENCE

- Worked as Head and Assistant Professor in Department of Forensic Biology, Government Institute of Forensic Science, Aurangabad (21Sept 2015 to 30 May 2019)
- Worked as a lecturer for P.G. & U.G. Biotechnology course from Session 2008 to 2010 at Agnihotri college of Science & Biotechnology Research centre, Wardha.
- Worked as Junior Research Fellow under DST, New Delhi, FAST TRACK project “***In vitro* production and optimization of antimicrobial secondary metabolites i.e Passicol from *Passiflora* species**” At Department of Biotechnology, SGBAU, Amravati University, Amravati. 1/10/10 to 14/12/12.
- Worked as Senior Research Fellow under RGSTC Major Research Project, “**Process Development And Characterization of Antiurolithic activity of bioactive Metabolites of selected Medicinal Plants of Melghat Forest Region (Amravati)**” At Department of Biotechnology, SGBAU, Amravati University, Amravati. 26/04/2013 to 19/09/2015.

PUBLICATIONS / PRESENTATIONS

RESEARCH PAPERS

1. **H Paikrao**, A Dipale, A Patil and D Tajane. (2021) Nano-Forensics a Comprehensive Review. *Forensic Sci Add. Res.* 5 (3) 411-413.
2. **HM Paikrao** and VA Shende. (2020) Investigation of adulteration in Kumkum. *Materials Today: Proceedings*, 29,801-806.
3. AS Kale, AS Patil, **HM Paikrao**. (2017) A modified TLC bioautographic technique for the detection of antilithiatic potential of therapeutic plants from Indigenous Ayurvedic System. *Pharmaceutical Methods*.
4. AS Patil, **HM Paikrao**, AS Kale, SR Manik. (2017) A TLC-Direct Bioautography Method for Detection of Antiuro lithiatic Metabolites. *Journal of Chromatographic Science*. Vol.55 Issue 5, 578-585.
5. AS Kale, AS Patil, **HM Paikrao**. (2017) A modified TLC bioautographic technique for the detection of antilithiatic potential of therapeutic plants from Indigenous. *Ayurvedic System. Pharmaceutical Methods* 8 (1).
6. Patil AS, Kale AS, Patil SR and **Paikrao HM** (2016) Validation of accumulation of camptothecin content, an anti-cancer alkaloid in *nothapodytes nimmoniana graham*. In phenotypic variants: method for identifying high-yielding sources of alkaloid. *Int J Pharm Pharm Sci*, Vol 8, Issue 9, 19-23.
7. Bipin D Lade, Anita S Patil, **Hariprasad M Paikrao**, Ankit S Kale, Kushal K Hire (2014). A Comprehensive Working, Principles and Applications of Thin Layer Chromatography. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 5(4) 486-503.
8. Bipin Deochand Lade, Anita Surendra Patil and **Hariprassad Madhukarrao Paikrao** (2014). Efficient genomic DNA extraction protocol from medicinal rich *Passiflora foetida* containing high level of polysaccharide and polyphenol. *SpringerPlus* 2014, 3:457.
9. Anita Surendra Patil, Bipin Deochand Lade and **Hariprasad Madhukarrao Paikrao** (2014). A Scientific Update on *Passiflora foetida*. *European Journal of Medicinal Plants*. ISSN: 2231-0894, Vol.: 5, Issue. 2. Science Domain.
10. Bipin Deochand Lade, Anita Surendra Patil, Surendra Rajaram Patil, **Hariprasad Madhukarrao Paikrao**. Preliminary Observation of *Acraea Viola*: A Natural Enemy of *Passiflora Foetida*. *Discovery Nature*, 2014, 9(19), 1-10.
11. Patil AS, Kale AS and **Paikrao HM**. Screening the *In vitro* Calcium Oxalate Crystal Inhibition Potential of *Abutilon indicum* L.: A Common Weed Plant from the Indian Medicine System. *Austin J Biotechnol Bioeng.* 2014;1(6): 4.
12. Bipin D. Lade, Anita S. Patil and **Hariprasad M. Paikrao** (2014). Systematic Optimization of Thin-Layer Chromatography for Wound-Induced Differential Secondary Metabolites in *Passiflora foetida*. *Journal of Planar Chromatography*. 27 (2014) 5, 385–391. Akadémiai Kiadó Zrt, Budapest) 279
13. Patil A.S and **Paikrao H.M** (2013). *Passiflora foetida* linn: a complete morphological and phytopharmacological review. *Int J Pharm Bio Sci.* vol. 4(1): (p) 285 – 296.

14. Patil A.S and **Paikrao H.M** (2012). Bioassay Guided Phytometabolites Extraction for Screening of Potent Antimicrobials in *Passiflora foetida* L. *Journal of Applied Pharmaceutical Science*. Vol. 2 (9), pp. 137-142, September, 2012.

BOOK CHAPTERS PUBLISHED

1. AS Kale, AS Patil, **HM Paikrao**, SR Patil (2018) Characterization and Purification of Antiuro lithiatic Metabolites from Medicinal Plants, *Ethnobotany: Application of Medicinal Plants*. CRC Press.
2. AS Patil, SR Patil, **HM Paikrao** (2016) Trichoderma secondary metabolites: their biochemistry and possible role in disease management. *Microbial-mediated induced systemic resistance in plants*, 69-102.

PATENTS

PATENTS GRANTED

- METHOD FOR IN VITRO QUALITATIVE AND QUANTITATIVE DETECTION OF CALCIUM OXALATE INHIBITORY ACTIVITY OF PLANT EXTRACTS. Application No. 1501/MUM/2014. **Patent Number :369010 Dr.** Anita Surendra Patil, **Hariprasad Madhukarrao Paikrao**, Ankit Subhash Kale, Dr. Surendra Rajaram Patil.
- METHOD FOR SELECTIVE EXTRACTION AND PURIFICATION OF STRESS INDUCED ANTIMICROBIAL METABOLITE FROM PASSIFLORA FOETIDA L. **Application No.: 3299/MUM/2012**, Name of Applicant:1) Sant Gadge Baba Amravati University , 2)Dr. Anita Surendra Patil, 3) **Mr. Hariprasad Madhukarrao Paikrao**. Date of filing of Application:15/11/2012 , Publication Date : 28/12/2012; Journal No. - 52/2012.

PATENTS ORDERED FOR GRANT

- PROCESS FOR ELICITATION OF A STRESS INDUCED ANTIMICROBIAL METABOLITE IN PASSIFLORA FOETIDA L. **Application No. : 3300/MUM/2012**, Name of Applicant :1) Sant Gadge Baba Amravati University , 2)Dr. Anita Surendra Patil, 3) **Mr. Hariprasad Madhukarrao Paikrao**. Date of filing of Application:15/11/2012, Publication Date : 21/12/2012 ,Journal No. - 51/2012.

PATENT PUBLISHED

- HERBAL COMBINATION FOR TREATMENT OF CALCULUS DISEASE. Application Number: 201621008675. Name of the Applicants: 1 . Dr. Anita

Surendra Patil 2 . Mr. Ankit Subhash Kale 3 . Mr. Hariprasad Madhukarrao Paikrao
4 . Dr. Surendra Raghoba Manik 5 . Dr. Surendra Rajaram Patil

- METHOD FOR IDENTIFICATION OF COMPOUNDS POSSESING CALCIUM OXALATE STONE DEGADING PROPERTIES IN PLANT EXTRACTS USING TLC BIOASSAY. **Application number 494/MUM/2013**, Name of Applicant: 1)Dr. Anita Surendra Patil, 2) **Mr. Hariprasad Madhukarrao Paikrao** 3) Dr. Surendra Manik, FILING DATE 20/02/2013, CBR NO. 2064.

RESEARCH PROJECTS COMPLETED

1. Worked as Co-PI in Major research Project entitled, “**An inexpensive method for the determination of Oxalate in Urine and Assesment of Hyperoxaluria by nano-based paper strip Technique**” (RGSTC/File-2011/DPP-166/CR-42) funded by Rajiv Gandhi Science and Technology Commission Mumbai, Maharashtra, India.
2. Worked as Co-PI in Minor research Project entitled, “**Developing Image Database for Entomological Evidence to Estimate Time Science Death in forensic Investigation**” (STAT/VI/RG/2018-1959-60) funded by Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra India.

POSTER PRESENTATION

1. **Hariprasad Madhukarrao Paikrao** (2015) Screening the Antiurolithiatic potential of selected medicinal plants from Amravati district at 4th Bhartiya Vigyan Sammelan and Expo 2015, held between 5-8th Feb 2015 in Pananji-Goa India.
2. **Hariprasad Paikrao** (2013). PASSIFLORICIDINE- A NOVEL STRESS INDUCED ANTIMICROBIAL METABOLITE FROM *Passiflora foetida* L. at “AVISHKAR” Maharashtra State Inter University Research Convention.7-9 Jan, 2013.
3. Anita Patil and **Hariprasad Paikrao** (2012). Purification and screening the potential of Passicol: A antimicrobial metabolite from *P. incarnata* L. Traditional medicines and Globalization- The future of ancient system of medicine’ - 12th International congress of ethanopharmacology, Kolkata. Organized by School of Natural product research, Jadavpur University, Kolkata, 17-19 Feb, 2012, International.
4. Gauri V. Ade, **Hariprasad Paikrao** (2010). In Silico Drug Designing in U.G.C. sponsored national seminar on Industrial & Environmental Microbiology, organized by S. P. Mahavidyalaya Chandrapur. 9 Jan, 2010.

PAPER EXAMINER/ SETTING/ MODERATION / COMITEE MEMBER

1. Worked as Paper Setter, Moderator, Examiner in the year 2020 in RTM Nagpur University.
2. Worked as Paper Setter, Moderator, Examiner in the year 2015-2019 in Dr. Babasaheb Ambedkar Marathwada University Aurangabad.
3. Worked as Junior supervisor in University Exams of in Dr. Babasaheb Ambedkar Marathwada University Aurangabad.
4. Worked as Venue officer at CET Exams (B.Ed., Law, etc).
5. Worked as Supervisor in MPSC Exams.
6. Worked in different Committee members of Govt. Institute of Forensic Science, Aurangabad such as, Mid-term Exam, Gathering Committee and Admission Committee.

CONFERENCE/WORKSHOP ORGANISED

1. **Organizing secretary** of **1 Day Workshop** held on, “**Forensic Anthropology**” (24/02/2020) organized by Department of Forensic Biology, Govt. Institute of Forensic Science Nagpur.
2. **Organizing secretary** of **2 Day Workshop** held on “**Techniques in Molecular Biology and applications in Forensic Science**” (17th and 18th Feb 2020) organized by Institute of Science Nagpur and Govt. Institute of Forensic Science Nagpur.
3. Worked as **coordinator assistance** in one day workshop on Forensic Palynology organized by Department of Forensic Biology, Govt. Institute of Forensic Science, Nagpur held on 17th Sep 2019.
4. Worked as organizing committee member in a one day, seminar on “Conflict among teenagers and Women Harassment at workplace” organized by Govt. Institute of Forensic Science Aurangabad.

PARTICIPATION IN CONFERENCE/ WORKSHOP ATTENDED

WORKSHOPS

1. Attended 2 day workshop of “**E-content development for Educational Audio and Video**” at Jan Shikshan Sansthan, Aurangabad. 2018.
2. One day National workshop on **Women Empowerment: Challenges and strategies** organized by Government Institute of Science Aurangabad, 5th Oct 2018.
3. Workshop attended on **Wildlife Forensics** in LaCones Hyderabad, 2017.
4. National Workshop on **Role of Diatoms in Forensic Investigation** at Agharkar Research Institute Pune. Aug.2016.
5. Completed STP-Foundation course for Class-I officers of Higher and Technical Education Department, conducted by YASHADA, Pune.

6. Completed Laboratory training on “**Care and Management of laboratory animals including experimental techniques**” at CDRI, Lucknow from 14th Jan to 20th Jan 2015.
7. Workshop on “**Structural elucidation of natural compounds**”, Govt. College of Pharmacy, Amravati, 19-20 Oct, 2012.
8. National Workshop on “**Applications of Chromatographic Techniques in Phytochemical Analysis**”, Govt. College of Pharmacy, Amravati, 3-4 Oct, 2011.
9. 11th Workshop on **Medical informatics and Biomedical-Communication** at JBTDRC, MGIMS, Wardha, 20-22 Nov, 2008.

CONFERENCE / SEMINAR

10. National seminar on “**Trends in Nano-Biotechnology**”, Dept. of Biotechnology, SGBAU, Amravati, 4 Jan, 2013.
11. National Seminar on “**Natural Resources, Biodiversity and Geography Information System**”, UGC-Academic Staff College, SGBAU, Amravati, 18 Oct, 2011.
12. AICTE Sponsored National Seminar on “**Nanotechnology: A versatile tool in Drug Design and Delivery**”, Agnihotri College of Pharmacy, Wardha; 7-8 June, 2010.
13. U.G.C. sponsored National seminar on “**Recent innovations in Herbal Drugs**” at Warud, Amravati, 24 Jan, 2009.
14. National Level Symposium on **Nano-Biotechnology, Aero-Bio-Nano-2007**, at Hyderabad, 29-30 March, 2007.