

Curriculum Vitae

NAME: PRATIMA ARUN TATKE

**DESIGNATION: Principal, C. U. Shah College of Pharmacy,
Professor of Pharmaceutical Chemistry**

EDUCATION: M. Pharm., Ph.D., D.B.M.

WORK EXPERIENCE

I. Working in C.U.Shah College of Pharmacy, S.N.D.T. Women's University, Juhu Campus, Juhu Road, Santacruz (W), Mumbai 400-049, since *March 1988*.

- Principal - since 22-11-2017 till date.
- Professor - From 01-01-2009 till date, Involved in Post-graduate and Under-graduate teaching. Taking lectures and practical in the field of Modern Analytical Techniques, Medicinal Chemistry, Biochemistry, Biotechnology, Organic Chemistry, and Microbiology.
- Recognized guide of SNTWU for guiding Ph.D. students in the Faculty of Technology (Pharmaceutical Sciences) .
- Guided more than 70 B. Pharm. projects, 19 Ph.D. projects (12 completed, 7 ongoing), 60 M. Pharm. projects, at present guiding 3 M. Pharm. students.

II. Worked as 'Research Executive' at Pharma Dynamica Pvt Ltd , Mumbai, INDIA. From *Feb 1986* to *Feb 1988*.

RESEARCH EXPERIENCE:

- **Ph.D**

Project Title : Phytochemical Evaluation of some plants with Antifertility Activity.

- **M. Pharm.**

Project Title : Studies on Crude Drugs: Decontamination by Gamma Radiation.

AWARDS RECEIVED

International awards: (10)

- I. Received **Second prize** at South Asian Chapter of American College of Clinical Pharmacology for paper entitled "Wound healing activity of calcium mupirocin creams by excision and incision wound model" in August 2011.**

2. Received **Second prize** at South Asian Chapter of American College of Clinical Pharmacology for paper entitled “ Isolation of Gmelinol from *Gmelina arborea*” in August 2011.
3. Received **Second prize** at South Asian Chapter of American College of Clinical Pharmacology for paper entitled “Quality check for spontaneous reports of different countries” in August 2011.
4. Received **first prize** at Nutrition society of India-2010, Mumbai-November 2010 “Effect of garlic-capsicum combination on sodium nitrite induced oxidation of haemoglobin” in November 2010.
5. Received **Second prize** at South Asian Chapter of American College of Clinical Pharmacology for paper entitled “Development of a programme for Adverse drug reaction monitoring in psychiatry” in December 2010.
6. Received ‘**Talented Scientist Award**’ at the ‘**International seminar on Medicinal Plants and Herbal Products**’ held in Tirupati, A.P., from March 7th-9th 2008. This award was given as recognition of her outstanding contribution in the field of Medicinal Plants and Herbal Products at International level on the recommendations made by the Scientific and Adjudication Committee.
7. An **International award of Excellence** in the field of **Pharmaceutical Sciences** was given at the “**International Conference on Ayurveda and Holistic Healing**” held in Penang, Malaysia from Jan 19-20, 2008.
8. The oral presentation entitled, ‘Quality control of marketed formulations of Drakshasava by HPTLC using a chemical marker’ received **SECOND prize with Silver medal** at “**International Conference on Ayurveda and Holistic Healing**” held in Penang, Malaysia from Jan 19-20, 2008.
9. Research work on “Marker Based Standardization of Commercial Formulations of *Shankhapushpi* Syrup Using HPTLC” received **FIRST prize** at **International Conference on Contemporary Issues and Future Challenges in Drug Development**, held in Mumbai, from Oct 5th-7th, 2007
10. Research work on “Neem oil-Standardization and Evaluation of Water miscible Emulgel” received **SECOND prize** at **International Conference on “Neem-2002”** at Mumbai in Nov, 2002.

National Awards: (09)

1. Received first prize at “**Avishkar 2011-2012–VI Maharashtra State Inter-University Research Convention**”, held at Kolhapur on 13th-15th January, 2012 for the project

entitled “A Novel phytoliposomal formulation for a polyherbal mix containing curcumin”.

2. Received **Dr. (Mrs.) Manjusree Pal Memorial Award** for **BEST PHARMACEUTICAL SCIENTIST 2011** for her for outstanding contribution to the profession of pharmacy, teaching, research and industrial collaborations.
3. Received **Bharat Shiksha Ratan Award** for for her for contribution to the profession of teaching and research in Pharmaceutical Sciences.
4. Research paper entitled “An anti diabetic herbal tablet formulation containing bioactive extract from waste product of Cashew” **selected for national level** presentation in India Innovation Initiative – i3 2011.
5. Received certificate of appreciation for paper entitled” Marker based standardization of commercial formulations and extracts containing beta-sitosterol-D-GLOCOSIDE using HPTLC by P.D. Sethi Annual Award-2010.
6. Received second prize at “**ANVESHAN-2009- ZONAL Research Festival**”, held at Bhopal, on 27-29th, January 2009 for the project entitled, “Isolation And Chemical Characterization Of Catechin – A Potential Biomarker With Antioxidant Activity “ and was selected as one of the best projects.
7. Received second prize at the “**ANVESHAN-2009 – 2nd National Level Research Convention**”, held by **Association of Indian Universities –AIU**, at Calcutta, on 23-25th, February 2009 entitled as, “Isolation And Chemical Characterization Of Catechin – A Potential Biomarker With Antioxidant Activity”.
8. Research work on “Development and Evaluation of Female Herbal Contraceptive” and on “Anti HIV activity of some Indian medicinal plants” jointly **awarded 1st prize** at **Avishkar (State level Inter-University research competition)** held at S.N.D.T .Women’s University on 9th-12th January, **2008**.
9. Merit fellowship for M. Pharm.
10. Was placed **Third on Merit** in S.N.D.T. Women’s University in the B. Pharm. Examination.
11. Research work on “A novel phytoliposomal formulation for a ployherbal mix containing curcumin” **awarded 1st prize** at **Avishkar (State level Inter-University research competition)** held at held at Kolhapur, on 13-15h, January 2012

➤ **ADMINISTRATIVE EXPERIENCE**

- **'Director'** for UGC sponsored Indo-Canadian study center by S.N.D.T. Women's University for 5 years from 2014-till date.

- **Chairperson of Board of studies of Pharmacy** of SNTD Women's University.
- **'Senate Member'** of SNTD Women's University from August 2012-15 in the category of 'Technology teacher' from 2013-2015.
- **Member of Ethical Committee** of Podar Ayurvedic Medical College, Worli, Mumbai.
- Member of **General Council** of National Board of Accreditation (NBA), New Delhi.
- Member of Committee constituted by UGC, New Delhi for inspection of Autonomous College in 2020-21.

PATENTS FILED

- *K.K.Singh, P. A. Tatke and Shruti Dhuru, "Neem Oil contraceptive formulations" International Application No. **PCT/IN2006/000016** dated 19/01/2006 Publication No. **WO 2006/082596***
- *K.K.Singh, P. A. Tatke and Shruti Dhuru, "Herbal contraceptive formulations" International Application No **PCT/IN2006/000017** dated 19/01/2006 Publication No **WO 2006/087733 A1***
- *K.K.Singh, P. A. Tatke and Shruti Dhuru, "Herbal contraceptive formulations" **US Application Serial number: 11/884,677**-New national stage patent application--filed at the **USPTO** on August 20, 2007, **UNITED STATES PATENT 20080152713, GRANTED***
- *K.K.Singh, P. A. Tatke and Shruti Dhuru, "Herbal contraceptive formulations" **57/MUM/2005** dated 19/01/2005- **GRANTED***
- *K.K.Singh, P. A. Tatke and Shruti Dhuru, "Herbal contraceptive formulations" **Indian Patent 58/MUM/2005** dated 19/01/2005- **GRANTED***
- *P. A. Tatke, Nidhiya I.S.R, S.Y.Gabhe, and A.B.D. Vaidya, "Extract Of Himalayan Garlic Peels Having Antidiabetic Activity" (complete specifications filed on 19.05.11) **Patent no. 1267/MUM/2011** dated **19-04-2011***
- *P. A. Tatke, Deepali Mahajan and Vikram Naharwar, "Effervscent Granules Containing *Punica Granatum* Fruit Peel For Antiulcer And Analgesic Activity " (Provisional patent filed on 30-04-2013, complete patent filed on 24th April, 2014). **Patent Application No.: 1573/MUM/2013** filed on 30/04/2013- **GRANTED in JANUARY 2021***

PUBLICATIONS

Total number of Publications: 84

- Review Articles: 08 (International: 06, National: 02)**
- Research Papers: 73 (International: 53, National: 20)**
- Books: Chapters contributed in books: 03 (International Publisher:02, National Publisher: 01)**

d) Cumulative Impact factor: 40.346

(a) Review articles (08)

1. Poonam Nehete and **Pratima Tatke**, "Micellar Electrokinetic Capillary Chromatography (MECC)", **Indian Journal of Pharmaceutical Sciences**, Vol 61 (6), pp 335-341, 1999, ISSN:0250-474X, Publication of the **Indian Pharmaceutical Association**. (Impact Factor for 2015: 0.762)
2. Heeshma C. Shah, **Pratima Tatke**, Kamalinder K. Singh, 'Spermicidal Agents' in the **Drug Discovery and Therapeutics**, 2(4):200-210, 2008, ISSN: 1881-7831 **Online ISSN: 1881-784X**, Publisher: IRCA-BSSA Group Journals
3. **Pratima A. Tatke**, Yogini S. Jaiswal, "An Overview of Microwave Assisted Extraction and its Applications in Herbal Drug Research" **Research Journal of Medicinal Plant**, 1-8, 2011, ISSN: 1819 3455, Publisher: Academic Science Inc..
4. Sonal Desai, **Pratima Tatke**, Charantin: An Important Lead compound from *Momordica charantia* for the Treatment of Diabetes, **Journal of Pharmacognosy and Phytochemistry**, 3(6), 2015, 87-90, E-ISSN: 2278-4136, P-ISSN: 2349-8234 (Impact factor: GIF-0.225, ICV: 5.52), Publisher: Society of Pharmacognosy and Phytochemistry
5. **Dr. Pratima Tatke**, Dr. Rachana Punjabi, Chandani Prasad & Ruchika Rajani, Functional Foods-A Pathway to a Healthy Lifestyle, **International journal of Pharmacy and Pharmaceutical research**, Dec.2018, Vol.14(1), pg.139-152. [www.ijppr.humanjournals.com]
6. Kalyani N. Natu & **Pratima A. Tatke** (2019) Essential oils – prospective candidates for antifungal treatment?, **Journal of Essential Oil Research**, 31:5, 347-360, DOI: 10.1080/10412905.2019.1604437
7. Tanmayee Joshi and Dr. Pratima Tatke, Role of Clinical Pharmacist in Emergency Department, **AMIERJ**, Volume VII, special issue, 35-36, 2018.
8. Padmini Ravikumar and **Pratima Tatke**, Advances in encapsulated dermal formulations in chemoprevention of melanoma: An overview, **Journal of Cosmetic Dermatology**, Inpress. Published by Wiley-Blackwell, Impact factor: 1.311.

Original Research Papers (73)

National (20)

9. **Pratima D. Pathak**, A.V. Damle, H.P. Tipnis, N.G.S. Gopal, "Decontamination of Rauwolfia and Liquorice by Gamma Radiation". **Indian Drugs**, 25(5), pp 200-203, 1988, Publisher: IDMA, **2015 Journal impact: 0.14**.

10. Pratima Tatke and S.Y.Gabhe, "Phytochemical Investigations of *Achyranthesaspera* Linn" in the **Indian Journal of Natural Products**, 15 (2), pp 26-28, Dec. 1999.
11. S.S.Mundhada, **Tatke P.A.**, M.K.Rehman, "Antimicrobial Activity of an Ayurvedic Tablet Hyderbi" **Ancient Science of Life**,XXI(4), pp 240-243, Sep 2002.
12. S.S.Mundhada, **Tatke P.A.**, "Preliminary Phytochemical Investigation and Antimicrobial Activity of fruits of *Mimusopselengi* Linn", **Indian Drugs**, 42(7), pp 417-423, 2005, **2015 Journal impact**: 0.14.
13. A.K.Phadnis, **Pratima Tatke**, Kamlinder K. Singh, "Antimicrobial Activity of bark of *Acacia nilotica*Linn.**Indian Journal of Natural Products**, 22(1), pp 24-25, Mar 2006.
14. S.Y.Gabhe ,**Pratima Tatke**, TabassumA.Khan,, "Evaluation of immunomodulatory activity of the methanol extract of the roots of *Ficus benghalensis*in rats", **Indian Journal of Pharmacology**, 38 (4), pp 271-275, Aug 2006.
15. HeeshmaC.Shah, **Pratima Tatke**, Kamlinder K. Singh, "Antifertility Activity of Dried Flowers of *Woodfordia fruticosa* Kurz", **Indian Journal of Pharmaceutical Sciences (IJPS)**, 68(4), 528-529, 2006, **ISSN:0250-474X**, Publication of the **Indian Pharmaceutical Association**. (Impact Factor for 2015: 0.762)
16. Murudkar A., Mundhada S.S., **Tatke P.A.**, "Antibacterial Activity of *MimusopsElengi* Linn Bark Against Dental Pathogens". **Indian Journal of Pharmaceutical, Education and Research (IJPER)**, 41(01), 114-120, 2007
17. Tabassum A. Khan, **Pratima Tatke**, S.Y.Gabhe, Immunological studies on the aerial roots of the Indian Banyan" **Indian Journal of Pharmaceutical Sciences(IJPS)** entitled, 18, 287, May-June 2008
18. Heeshma C. Shah, Vinayak Naik, **Pratima Tatke**, Kamlinder K. Singh "Pharmacognostical Studies of Roots of *Albizzialebeck* (L.) Benth.," **Indian Journal of Natural Products** 2009, 25(2), pp. 10-15.
19. Yogini S. Jaiswal, **Pratima A. Tatke**,SatishY.Gabhe, Ashok B.Vaidya, Antioxidant activity of leaves of *Anacardiumoccidentale*.**Indian Journal of Natural Products**, 2010, 26 (4), 17-22,
20. Yogini S.Jaiswal, I.S.R.Nidhiya, **Pratima A.Tatke**, SatishY.Gabhe, Ashok B.Vaidya, "Application of Microwave assisted extraction for fast Extraction of Catechin from Leaves of *Anacardium occidentale* L. (Cashew)", **Journal Of Medicinal And Aromatic Plant Sciences**32 (4) (2010) 187-192
21. Nair Sindhu,**Dr Tatke Pratima** and Wani Ashwini, "Isolation of a Cucurbitacin from *Picrorhiza kurroa* by Column Chromatography and Its Characterization", **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, July – September 2011 Volume 2 Issue 3 Page No. 149.
22. Preeti Kulkarni, Sonal Desai, **Pratima Tatke**, and S.Y. Gabhe, "Simultaneous Estimation of Anions Present in Oral Rehydration Salt Ion Chromatography and Its Method Validation" **Indian Journal of Pharmaceutical Education and Research (IJPER)**, 47(2), (Apr-Jun 2013)

23. Sonal Desai, **Pratima Tatke**, and S.Y. Gabhe, "Isolation and characterization of betaine from dried seeds of *Achyranthes aspera*." **Indian Drugs**, 50(4), 2013, 56-59
24. Dhruv N. and **Tatke P. A.**, "Marker based Standardization of commercial formulations containing Shankhapushpi using HPTLC." **Indian Drugs** , 50(10), 2013, 24-29
25. Usha Satyapal, Deepali Mahajan, **PratimaTatke** and Vikram Naharwar, Phytochemical investigation and assessment of antioxidant and antimicrobial potential of bark of *Mimusops elengi* , **Research Journal of Pharmacy and Technology (RJPT)**, 7(11), 2014, 1226-1230.
26. Megha Rajan, **Pratima Tatke**, Comparison of conventional and novel extraction techniques for the extraction of scopoletin from *Convolvulus pluricaulis*", **Indian Journal of Pharmaceutical Education and Research (IJPER)**, 48 (1), 2014, 27-31, ISSN: 0019-5464 (2017 IF: 0.3510).
27. Minakshi Nehete, Sanjay Nipanikar, Anisha Kanjilal, Sanjeevan Kanjilal, **Pratima Tatke**, Comparative efficacy of two polyherbal creams (cream A and cream B) with framycetin sulphate on diabetic wound model in rats, **Journal of Ayurved and Integrative Medicine**, 7, 2016, 83-87, ISSN: 0975-9476, (SNIP: 0.830).
28. Satish Gabhe, **Pratima Tatke**, Rachana Punjabi. Antifertility activity of *Bridelia crenulataroxb*, an ethnoplant used by Tribals of Orissa to prevent pregnancy. **Journal of Pharma Research**, August 2018; 7(8): 186-189, ISSN: 2319-5622, (20116 SJIF: 7.192).
29. Tanmayee Joshi, Pratima Tatke, IJPER, Neuroprotective Effects of Licorice Extracts in Tibial and Sural Transection Induced Neuropathic Pain in Rats, **Indian Journal of Pharmaceutical Education and Research**, Vol 54, Issue 2 (Suppl),Apr-Jun, 2020 (DOI: 10.5530/ijper.54.2s.85)
30. Aparna Palshetkar, Pratima Tatke, Mouthwash containing saponins of *Mimusops elengi* Linn, **Indian Drugs**, (Accepted for publication)

International (52)

31. A.T.Elamurthy, C.R.Shah, T.A.Khan, **P.A.Tatke**, S.Y.Gabhe "Standardization of Marketed Kumariasava-An Ayurvedic *Aloe vera* product",**Journal of Pharmaceutical and Biomedical Analysis**, 37, 937-941, 2005.Publisher: Elsevier B.V, 5-Year Impact Factor: **2.904** .
32. T.A.Khan, **P.A.Tatke**, S.Y.Gabhe, K.Mahajan, S.Tawde.,S.Kothari, R.A.Deshmukh, "Screening of Methanol and Water Extracts of *Acacia nilotica*Pods for *In-Vitro* Anti-HIV Acitivity". **Journal of Research Education and Indian Medicines**, Vol.XII 5 July-Sept 2007. ISSN-0970-7700.
33. H. N. Khushalani, **P.Tatke** and K. K. Singh,"Anti-microbial Activity of Dried Flowers of *Woodfordia fruticosa* Kurz ", **Asian Journal of Microbiology, Biotechnology and**

- Environmental Sciences**,10 (1), January 2008 155- 156. Gobal Science Publications (SJR: 0.11).
33. **Pratima A.Tatke**, I.S.R. Nidhiya, Deshpande S.G., “Repeated Dose Oral toxicity Study of an antidiabetic polyherbal formulation (*Diapal* tablets) in rats” **Pharmacology online**, 1, 933-942 (2010). ISSN-1827-8620.
 34. Vishnudevi, R. and **P. Tatke**" *In Vitro* Antimicrobial Activity of Rose Flowers" **Asian Journal of Microbiology, Biotechnology and Environmental Sciences**, 2010, 12 (2):481-483. Gobal Science Publications.(SJR: 0.11)
 35. Yogini S.Jaiswal, **Pratima A.Tatke**, SatishY.Gabhe, Ashok B.Vaidya, Antioxidant activity of various extracts of leaves of *Anacardium occidentale* Linn. (Cashew), **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, 1(4), October- December, 2010,112-119. ISSN-0975-8585 (Impact Factor: **0.35**)
 36. Yogini S.Jaiswal, **Pratima A.Tatke**, SatishY.Gabhe, Ashok B.Vaidya, “Isolation and quantitative analysis of a bioactive polyphenol - Catechin in *Anacardium occidentale* Linn. (Leaves and Testa) by HPLC analysis” **Research Journal of Pharmacognosy and Phytochemistry**, 2 (5), September- October 2010,372-376.ISSN-0975-2331, A&V Publication.
 37. I.S.R. Nidhiya, **Pratima A. Tatke**, Satish Y.Gabhe, Ashok B. Vaidya, “Comparative antioxidant activity of three garlic varieties- an *in vitro* study”, **Research Journal of Pharmacognosy and Phytochemistry**, 3(4), 2011,103-108. ISSN-0975-2331, A&V Publication.
 38. Supriya Jirge, **Pratima Tatke**, Satish Y. Gabhe, “Marker Based Standardisation of commercial formulations and extracts containing beta-sitosterol d- glucoside using HPTLC”, **International Journal of Research in Ayurveda and Pharmacy**. 1(2) 2010, 616-623, ISSN (online) 2229-3566, ISSN (Print) 2277-4343, (SNIP 2014 = **0.235**).
 39. Supriya Jirge, **Pratima Tatke**, Satish Y. Gabhe, Development and Validation of a novel HPTLC method for simultaneous estimation of beta-sitosterol d- glucoside and withaferin A”, **International Journal of Pharmacy and Pharmaceutical Sciences**. 3(2), 2011, 227-230. ISSN-0975-1491.
 40. S.S. Shafaq, Supriya Jirge, A.K.Latisha, **Pratima Tatke**, ChhayaBhat, V.N. Naharwar “HPTLC standardization of herbal extracts of *Gmelina arborea* using umbelliferone”, **Medicinal Plants**, 3 (2) June 2011, 1-4, Publisher: CIMAP, Lucknow.
 41. Yogini S.Jaiswal, **Pratima A.Tatke**, SatishY.Gabhe, Ashok B.Vaidya, “Isolation and quantitative analysis of a bioactive polyphenol - Catechin in *Anacardium occidentale* Linn. (Leaves and Testa) by HPLC analysis” **Research Journal of Pharmacognosy and Phytochemistry**, 2 (5), September- October 2010,372-376.ISSN-0975-2331, A&V Publication. (Impact Factor: 1.09)
 42. I.S.R. Nidhiya, **Pratima A. Tatke**, S.G.Deshpande “Safety profile of a polyherbal formulation (*Gynocare* capsules) in female rats by subchronic oral toxicity study” “**Toxicology International**” 2012 May ;19 (2):106-111. Medknow Publication..

43. Shruti Parmar, **Pratima Tatke**, Kamlinder K. Singh, Contraceptive efficacy and safety of Herboshield™ Vaginal gel, **Contraception** 2011; 85(1):122-127, Publisher: Elsevier (Impact factor: 2.788).
44. S.R. Anwikar, M.S. Bandekar, BajpaiSmrati, A.P. Pazare, **P.A. Tatke**, N.A. Kshirsagar, "HAART induced adverse drug reactions-a retrospective analysis at a tertiary referral health care center in India", **International Journal of Risk and Safety in Medicine**, 23(3),2011,163-169. IOS Press.
45. Yogini S.Jaiswal, **Pratima A.Tatke**, SatishY.Gabhe, Ashok B.Vaidya, "Effect of various drying methods on antioxidant activity and catechin content of Cashew leaves", **International Journal of Advance Pharmaceutical and Biological Sciences (IJAPBS)**, Vol. 2, Issue. 2, April-June 2012, 176-182. ISSN-2249-8966.
46. Yogini Jaiswal, **Pratima Tatke**, S.Y. Gabhe and Ashok Vaidya, Rapid High Performance Thin Layer Chromatographic Method For Quantitation Of Catechin From Extracts Of Cashew Leaves, **Polish Journal of Food and Nutrition Sciences**, Vol. 63, 2013. ISSN: 1230-0322 (print version), ISSN: 2083-6007 (electronic version), **Publisher:** Versita
47. Nakanekar A, Waghmare P, **Tatke P**, Kohli K, *In vivo* Evaluation Of Hypoglycemic Activity Of An Ayurvedic Polyherbal Combination (PDBT), **International Ayurvedic Medical Journal**,1(3); May - June 2013, ISSN: 2320-5091
48. Momin N.M., Disouza J.I., Tatke P.A., GonsalvesMelita, M. Aparna, Marker based standardization of novel herbal dental gel, **Research Journal of Topical and Cosmetic Science**, 2 (1), 25-29 , 201, ISSN: 0976-2981, **Publisher:** A & V Publications
49. Supriya Jirge, S. Y. Gabhe, **Pratima Tatke**, Marker Based Standardization Of Plant Based Formulations Containing *Brahmi* Using Bacoside A By HPTLC, **International Journal of Pharmacy and Pharmaceutical Sciences**, 6 (1), 2014, 202-207. ISSN-0975-1491, Academic Sciences.
50. **Dr Pratima A. Tatke**, Dr. Supriya S. Jirge and Dr. S. Y. Gabhe, Marker Based Standardization Of Formulations Containing Ashwagandha Using Withaferin A By HPLC, **World Journal of Pharmaceutical Research**, 3 (1), 2014, 441-451. ISSN-2277-7105. (SGIF Impact Factor: 5.045, Global impact factor-0.652).
51. Sonal S. Desai, **Pratima A. Tatke**, Vikram Naharwar, Satish Y. Gabhe, Development and Validation of an HPLC-DAD Method for the Determination of Agnuside-A Biomarker Marker of *Vitex negundo* Linn., **International Journal Of Pharmacognosy and Phytochemistry**, 2014, 29 (1), 1203-1208, ISSN:2051-7858, (Impact Factor: 1.69)
52. Sonal Desai, **Pratima Tatke**, Satish Gabhe, Optimization and Validation of HPLC-DAD Method for Analysis of Negundoside in the Extracts and Formulations Containing *Vitex negundo* Linn., **International Journal of Pharmacy and Pharmaceutical Sciences**, 6 (5), 2014, ISSN - 0975-1491, Innovare Academic Sciences (Impact Factor: 1.59)

53. Supriya Jirge, **Pratima Tatke**, and S.Y. Gabhe, Simultaneous estimation of Kaempferol Rutin and Quercetin in various plant products of different dosage form of Bhuiamla and Amla., **Journal of Planar Chromatography - Modern TLC**, 27 (4), August, 2014, pp 267-273. (Impact Factor: 0.95)
54. Sonal Desai, **Pratima Tatke**, S. Y. Gabhe, Isolation of Catechin from Stem Bark Of *Albizialebeck*, **International Journal of Analytical, Pharmaceutical and Biomedical Sciences**, 3(2), 2014, page 31-34. ISSN-2278-0246. (Universal Impact Factor: 0.99)
55. Lieselotte Veryser, Evelien Wynendaele, Lien Taevernier, Frederick Verbeke, Tanmayee Joshi, **Pratima Tatke**, and Bart De Spiegeleer, N-alkylamides: from plant to brain, **Functional Foods in Health and Disease**, 2014; 4(6):264-275. ISSN-2160-3855, (2016 Impact Factor : 1.88).
56. **Tatke P. A.**, Desai S. S., Gabhe S. Y., Marker Based Standardization Of Extracts And Formulations Of *Achyranthes aspera*, **International Journal of Pharmacognosy and Phytochemical Research**, 6 (2), 2014, 324-327. ISSN-0975-4873. (Impact Factor: 1.09).
57. **Pratima Tatke**, Sonal Desai, S.Y. Gabhe, Isolation of quercetin-3-O- β -D-glucoside from *Azadirachta indica*, **American Journal of Phytomedicine and Clinical Therapeutics**, 2(7), 2014, 870-876, ISSN:2321-2748, (Global impact Factor: 1.15).
58. **Pratima Tatke**, Sonal Desai, S. Y. Gabhe, Estimation of betulinic acid in extracts and formulations containing *Albizia lebeck* by HPLC, **World Journal of Pharmaceutical Research**, 3(6), 2014, 1277-1286 (SGIF Impact Factor: 8.074, Global impact factor-0.652). ISSN 2277 – 7105
59. Sonal Desai, **Pratima Tatke**, S. Y. Gabhe, A New Validated HPLC-DAD Method for Estimation of Solasodine in *Solanum nigrum* Linn. Extracts and Formulations, **Natural Products Journal**, 4(3), 2014, 196-200. ISSN:2210-3163 (Online) ISSN: 2210-3155 (Print), Publisher: Bentham Science
60. Sonal Desai, **Pratima Tatke**, S. Y. Gabhe, Quantification of diosgenin in extracts and formulations containing *Solanum nigrum*, **International Journal of Pharmaceutical Sciences and Research**, 6(2), 2015,1000-1006. ISSN: 2320-5148 (print version), ISSN: 0975-8232 (electronic version), (Impact Factor: 1.79)
61. Deepali Mahajan, Usha Satyapal, **Pratima Tatke** and Vikram Naharwar, Antimicrobial and Anthelmintic activity of *Punica granatum* fruit peels extracts, **International Journal of Pharmacognosy and Phytochemical Research**, 2014; 6(3): 482-487, ISSN: 0975-4873, (**Impact Factor**: 1.279)
62. Tabassum Khan, **Pratima Tatke** and Satish Gabhe , Bioactivity Guided Fractionation of the Aqueous Extract of the Indian Banyan and Evaluation of Immunomodulatory Activity -Validating the Traditional Use, **J Homeop Ayurv Med**,2014, 3:3, 1-5. ISSN:2167-1206JHAM, an open access journal, Publisher: Homeopathy & Ayurvedic Medicine.

63. Priti S. Patil, **Pratima A. Tatke** and Satish Y. Gabhe, *In vitro* Antioxidant and Free Radical Scavenging Activity of Extracts of *Rosa damascena* Flower Petals, **American Journal of Phytomedicine and Clinical Therapeutics**, 3,[09],2015, 589-601, ISSN 2321 – 2748, (SJIF- 3.266, JI Factor- 0.69)
64. Minakshi Nehete, Sanjay Nipanikar, Anisha Kanjilal, Sanjeevan Kanjilal, **Pratima Tatke**, Comparative efficacy of two polyherbal creams with framycetin cream in treating fresh wounds, **European Journal of Pharmaceutical and Medical Research**,2015, 2(5), 1047-1057. (SJIF Impact factor 4.897), ISSN 3294-3211, Pubicon International Publications.
65. **Tatke P**, Satyapal US, Mahajan DC, Naharwar V, Phytochemical Analysis, *In-Vitro* Antioxidant and Antimicrobial Activities of Flower Petals of *Rosa damascena*, **International Journal of Pharmacognosy and Phytochemical Research**, 2015; 7(2); 246-250, ISSN: 0975-4873
66. Deepali C. Mahajan, Usha S. Satyapal, **Pratima A. Tatke**, Vikram A. Naharwar, Evaluation of *Punica granatum* fruit peels extracts for its free radical scavenging and anti-inflammatory activity, **International Journal of Pharmacy and Pharmaceutical Sciences**, 7, (7), 222-225, 2015, ISSN- 0975-1491, Innovare Academic Sciences
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71. SushamaFulmali and **Pratima Tatke**, Development and Validation of Stability Indicating RP- HPLC Method for Gallic Acid, *European Journal of Pharmaceutical and Medicinal Research*, 2017,4(03), 452-457. (SJIF Impact factor 4.897), ISSN: 2394-3211, Pubicon International Publications.

72. Y.S. Jaiswal, **P.A. Tatke**, S.Y. Gabhe and A.B. Vaidya, Antidiabetic activity of extracts of *Anacardium occidentale* Linn. leaves on n-Streptozotocin diabetic rats, **Journal of Traditional and Complementary Medicine (JTTCM)**, 2016, Dec 29;7(4):421-427. doi: 10.1016/j.jtcme.2016. (SNIP: 0.570, SJR: 0.486), ISSN: 2225-4110, Elsevier Publication., <http://dx.doi.org/10.1016/j.jtcme.2016.11.007>.
73. **Pratima Tatke**, Minakshi Nehete and Satish Gabhe, Evaluation of Antioxidant, Antimicrobial and Wound Healing Potential of *Salvadora persica* Twig Extracts, **World Journal of Pharmaceutical Research (WJPR)**, Volume 6, Issue 4, 1186-1199. (SJIF Impact Factor 7.523), ISSN 2277– 7105
74. **Pratima Arun Tatke** and Rohini Shyam Waghmare, *Lagerstroemia Speciosa* Leaf Extract is Effective in High Fat- Fructose Fed Pre diabetic Rats, **BAOJ Diabetes**, 2017 3: 1 3: 020, A peer reviewed open access journal, Publisher: Bioaccent Group.
75. Sonal Desai, **Pratima Tatke**, and S.Y. Gabhe, "Enhanced HPLC-DAD method for fast determination of quercetin-3-O- β -D-glucoside in extracts and polyherbal formulations containing *Azadirachta indica*-Optimization and validation", **Journal of Chromatographic Science**, 2017 Aug 1;55(7):706-711, Published by Oxford University Press., Online ISSN 1945-239X, Print ISSN 0021-9665, 2018 Impact factor: **1.037**, DOI:<https://doi.org/10.1093/chromsci/bmx024>.
76. Kiran Oberoi, **Pratima Tatke** and S. Y. Gabhe, Piperine Enhances the Bioavailability of Secnidazole in Rats, **MOJ Bioequivalence & Bioavailability**, 2017;3(3):76–81, DOI: 10.15406/mojbb.2017.03.00037,ISSN: 2573-2951. Publisher: Med Crave.
77. Prajakta B. Kothawade. **Dr. Pratima Tatke**, Dr. Vikram Naharwar, Phytochemical investigation & characterization of heartwood of *Pterocarpus marsupium* Roxb. (Family: Leguminoceae), **World Journal of Pharmacy and Pharmaceutical Sciences**, Vol. 7, Issue 2, 806-818.2018, ISSN: 2278-4357 (SJIF Impact Factor:7.421)
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79. Amit Nakanekar, Kuldip Kohli and **PratimaTatke**, Ayurvedic Polyherbal Combination (PDBT) for Prediabetes: A randomized double blind placebo controlled study, **Journal of Ayurved and Integrative Medicines (JAIM)**, 2018, 1-6. (<http://elsevier.com/locate/jaim>.) (ISSN: 0976-2809) (Impact factor 2019-20 is 1.410)
80. **Dr. Pratima Tatke**, Priyanka Mundale and Dr. Aparna Palshetkar, Formulation and Antimicrobial Activity of *Psidium guajava* L. Leaf Extract for Dental Drug Delivery, **International Journal of Pharmaceutical Research and Review**, 7(9), 1-9, 2018.
81. Padmini Ravikumar and **Pratima Tatke**, Design Of An Encapsulated Topical Formulation For Chemoprevention Of Skin Cancer, **International Journal of Pharmaceutical Sciences and Research (IJPSR)**, Vol. 10, Issue 1; January, 2019.

82. Padmini Ravikumar, Mahesh Katariya, SushilPatil, **Pratima Tatke** and Raviraj Pillai, Skin Delivery of Resveratrol Encapsulated Lipidic Formulation for Melanoma Chemoprevention, **Journal of Microencapsulation**, 2019 Jul 29:1-45. Print ISSN: 0265-2048 Online ISSN: 1464-5246, Taylor & Francis Publication, Impact Factor. 2.040.DOI: 10.1080/02652048.2019.1649481.
83. Sonal Desai, Pratima Tatke, Tukaram Mane, Satish Gabhe, Isolation, characterization and quantitative HPLC-DAD analysis of components of charantin from fruits of *Momordica charantia*, Food Chemistry, Volume 345, 30 May 2021, 128717, Elsevier Publication

Book Chapters (03)

1. Pratima Tatke, LalHingorani, Extraction and Characterization of PhytoPharmaceuticals, **Emerging Trends in Phytopahrmaceuticals**, Chapter 4, 2015, 24-34.
Publisher: CBS Publication House, Delhi
2. Priti Patil, Pratima Tatke, Characterization of Betaine from seeds, **Betaine : Chemistry, Analysis , Function and Effects**, Royal Society of Chemistry, Chapter 11, 2015, 156-174.
Publisher: Royal Society of Chemistry, Cambridge, UK
3. Pratima Tatke, Isolation and Analytical Methods of Catechin: A Critical Review **Advances in Chemistry Research**, Volume 56, 2019
Publisher: Nova Science Publishers, Inc. Hauppauge, NY, USA

PRESENTATIONS

- ❖ Total Number of Papers Presented: **129**
- ❖ (In International Conferences: 88, In Indian Conferences: 41)

RESEARCH LINKS

International level

- Collaboration with **Utretch University, Utretch**, Netherlands for 3 months from 01-12-2009 to 15-03-2010 with Dr. Marianna Verhar and Dr. Joost Fledderus. The research student received a fellowship of 700 Euro per month for three months.
- Collaboration with **University of Toronto, Toronto**, Canada for 3 weeks in May 2015 with Dr. Peter Ross. The research student received travel and accommodation

fare as a part of collaborative project sanctioned by from Shastri IndoCanadian Institute (SICI) to Dr. Pratima Tatke.

- Collaboration with Department of Pharmaceutical Analysis, **Ghent University, Belgium** to carry out a collaborative research work involving Pharmacokinetic study of N-Alkylamides from Plant extracts with Dr. Bart De Spiegeleer.

National level

- Collaboration with **MMRC Kasturba Health Centre, Mumbai** with **Dr. Ashok Vaidya (Research Director, MMRC Kasturba Health Centre)** who is Co-investigator and Co-guide for TWO SRF working on ICMR funded project entitled “Studies on some medicinal plants with Antidiabetic activity” for 3 years from September 2007 to August 2010.
- Collaboration with **Dept. of Clinical Pharmacology, KEM Hospital, Mumbai** with **Dr. Nilima Kshirsagar** who is Co-investigator and Co-guide for TWO SRF working on projects entitled “Development of Pharmacovigilance programme for HIV-AIDS, TB and Psychiatric disorders” for 3 years from January 2008 to December 2010.

GRANTS AND FUNDED RESEARCH PROJECTS:

Total funds received = 1.49 crores

(As P.I.- Rs. 1.24 Crores, as Co. I. – Rs. 25.08 Lacs)

VISITS ABROAD

1. **Sydney, Australia** to attend and present research paper at **63rd FIP World Congress** in September 2003 entitled, ‘Antimicrobial activity and Isolation of Saponins from bark and fruit of *Mimusops elengi* Linn’.
2. **Florence, Italy** to attend and present three research papers at **15th International Symposium of Pharmaceutical and Biomedical Analysis** in May 2-6, 2004 entitled, “Simultaneous Estimation of anions present in ORS by Ion Chromatography and its Method Validation”, “Standardization of Marketed Kumariasava-an Ayurvedic *Aloe vera* Product”, “Phytochemical Analysis and Evaluation of Immunomodulatory activity of the roots of *Ficus bengalensis*”.
3. **San Antonio, Texas, USA** to attend and present three research papers at **2006 AAPS Annual Meeting and Exposition**, from Oct 29th to Nov 2nd 2006, entitled as “Design and evaluation of novel herbal dental gel”, “Development and evaluation of dental gel

containing Miswak” and “Human sperm immobilization effect of an ethanoplant *Bridelia crenulata*: an invitro study”.

4. **Penang, Malaysia** to attend and deliver a lead lecture entitled, “Standardization of Ayurvedic Formulations by Modern Analytical techniques” at “**International Conference on Ayurveda and Holistic Healing**” held in from Jan 19-20, 2008.
5. **Bandung , Indonesia** to attend and deliver a Guest lecture entitled, “Isolation of Marker Compounds from Medicinal Plants with high purity: A Challenge for Chemists” at “**Bandung International Conference on Medicinal Chemistry**” held in Indonesia from August 6-8, 2009.
6. **Orlando, USA** to attend and present THREE papers at the “21st International Symposium on **Pharmaceutical and Biomedical Analysis**”, held at on 11-14, October 2009.
7. **Nuremberg, Germany** to attend and present ONE oral paper at the International Congress “**Phytopharm 2011**” held on 24-26, July 2011.
8. **Graz, Austria** to attend and present ONE Short lecture presentation and TWO poster papers at the “**International Conference of EthnoPharmacology**” held on September, 2-6, 2012.
9. **Oxford, Mississippi, USA** to attend and present FIVE papers at the “International Conference on Science of Botanicals”, held at National Center for Natural Products Research (NCNPR), University of Mississippi, Oxford, MS on 11-14 May, 2015.
10. **New Jersey, USA** to visit the “Dept. of Biomedical Sciences”, at Rutgers University, NJ on 4th June, 2019.

SEMINARS SYMPOSIUM ORGANISED:

1. Organized HPTLC training program in collaboration with Anchrom Ltd. Every year for M. Pharm students.
2. Organised a one-day seminar on ‘Recent Advances in Pharmaceutical Chemistry’ on the occasion of Silver Jubilee
3. Organised and worked as organizing secretary for UGC sponsored one-day national seminar on “Recent Advances in Herbal Drug Technology” on 21st March 2012.
4. Organised and worked as Convener for UGC sponsored one-day national seminar on “Alternatives to Animal Experimentation-A need of the day” on March 2016.
5. Organised and worked as Convener for one-day State level seminar on “Management of Stress and Depression” on October 2018.

6. Organised and worked as Convener for RGSCT sponsored one-day national seminar on “Applications of Mathematics in Pharmaceutical Sciences” on December 2019.
7. Organised and worked as Convener for RGSCT sponsored one-day 'Science Exhibition' on the occasion of “National Science day” on 26th February 2020.

REVIEWER of The Following Journal (S):

- *International*-Journal of Pharmaceutical and Biomedical Analysis—An Elsevier Publication, Journal of Agricultural and Food Chemistry—An ACS Publication, Journal of Planar Chromatography, Journal of Biological Sciences, Pakistan Journal of Biotechnology, Research Journal of Medicinal Plant, Research Journal of Environmental Sciences, American Journal of Food Technology, Asian Journal of Plant Sciences, Asian Journal of Scientific Research, Research Journal of Phytochemistry, Research Journal of Microbiology
- *National*- Indian Journal of Pharmaceutical Sciences, Journal of Ayurvedic and Integrative medicine (Member of Reviewer Board), Indian drugs

GUEST LECTURES DELIVERED: (Total: 10)

International level

- Delivered a **lead lecture** entitled, “Standardization of Ayurvedic Formulations by Modern Analytical techniques” at “**International Conference on Ayurveda and Holistic Healing**” held in **Penang, Malaysia** from Jan 19-20, 2008.
- Delivered a **Guest lecture** entitled, “Isolation of Marker Compounds from Medicinal Plants with high purity: A Challenge for Chemists” at “**Bandung International Conference on Medicinal Chemistry**” held in *Bandung, Indonesia* from August 6-8, 2009.

National level

- Delivered a lecture on “TLC and HPTLC” at the course entitled “**Standardization of Drugs in Indian Traditional system of Medicine**” organized by MUHS, Nasik on 7th April 2009.
- Invited as a guest lecturer for “Pharmaceutical Fermentation technologies” for a course of M.Sc. in Clinical Research, conducted at **Asian Institute of Health Sciences**, Manipal University, at Vasai- delivered 6 lectures in April-May 2009.

- Invited as a **Resource person** for delivering a lecture on “Marker based standardization of Plant based products” at **National level seminar** sponsored by University of Pune and organized by Modern College of Pharmacy, Moshi, Pune on 10th January 2011.
- Invited as a **Resource person** for delivering a lecture on “Pharmacological studies on *Anacardium occidentale* and *Allium sativum*” at **ICMR sponsored training course in Reverse Pharmacology** organized by Kasturba Health Centre, Vile Parle, Mumbai, on 30th March 2011.
- Invited as a Resource person for delivering a lecture on “Preclinical studies” at 2-Day Seminar on “Research Methodology” organized by Podar Ayurvedic Medical College, Worli, Vile Parle, Mumbai, on 30th July 2012.
- Invited to deliver a plenary lecture on “Marker based standardization of herbal medicines and formulations –Need for Global Acceptance” at 2-Day Seminar on “Phytomedicines” organized by Bharatiyar University, Coimbatore, on 5th October, 2012.
- Invited to deliver a guest lecture on “Standardization of Herbal products using Phytomarkers by HPLC / HPTLC” at One day Seminar on “Phytopharmaceutical-An Overview” organized by MET Institute of Pharmacy, Bandra, Mumbai on 15-02-2013.
- Invited to deliver a guest lecture on “Standardization of Herbal products using Markers compounds” at “**Charak Pharma**”, Mahalakshmi, Mumbai on 18th June, 2013.
- Invited as a Resource person to deliver a lecture on " Quality control of Herbal Formulations using marker compounds by HPLC/HPTLC for AICTE sponsored Quality Improvement Program on "Recent Advances in Pharmaceutical Formulation Technology" held at Pune on 05-10-2013.
- Invited to deliver a Guest lecture on “Contribution of Women in Science and Technology” through online mode organised by **Indology Foundations**, New Delhi on 22nd October, 2020.
- Invited as Chief guest and delivered an inspirational talk on the celebration of the “International Women's Days” organised by Santacruz Mahila Mandal, Santacruz Mumbai on 10th March, 2021.

DETAILS OF MEMBERSHIP:

- Life member of Association of Pharmacy Teachers of India (APTI).

- Life member of Indian Pharmaceutical Association (IPA).
- Life member of Indian Society for Technical Education (ISTE).
- Life member of Nutrition Society of India (NSI).
- Life member of Research Journal of Chemistry and Environment.
- Life member of Asian Journal of Microbiology, Biotechnology and Environmental Sciences

OTHER PROFESSIONAL CONTRIBUTIONS

- Certificate in “General Course in Intellectual property rights” from WIPO worldwide academy, Geneva, 2011
- Member of the grievances committee appointed by Directorate of Technical education, Mumbai, 2008-09.
- Successfully completed Post graduate Diploma in Patent Law by Nalsar university, Hyderabad with 60% and A grade in August 2011.

RESEARCH AREA OF INTEREST:

Phytochemistry, Phytopharmacology, Pharmaceutical Analysis, Standardization of Herbal Products, Bioactivity guided fractionation and isolation of Phytomarkers.