

### Bio-data



Name of Teaching Staff :Dr. Supriya S. Jirge

Designation : Assistant Professor

Department : Pharmaceutical Analysis

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Qualification : UG- B. Pharmacy PG- M. Pharmacy  
PhD.- Pharmaceutical chemistry

Date of joining to the Institute :07-07-2014

Total Experience in Years : Teaching-03 years (full time)02 years (part time)  
Industry-2 months, Research- 2.3 years (Post.Doc.)

Paper Published : National-12 International-12

Paper Presented : National- 02 International-08

PhD :Specialization- Pharmaceutical chemistry  
University- SNDT women's University, Mumbai

Projects Guided : PhDs- Nil Projects at Master Level- Nil

Book Published/IPRs/Patents :Nil

Professional Memberships :Editorial member of Journal of Applied Chemical Science

Awards :Received first prize for oral presentation at paper presented at South Asian Chapter of American College of Clinical Pharmacology, held in Mumbai on 10-11<sup>th</sup> December-2010.

Grants Fetched : Industrial grant of Rs. 2.74 lac

Interaction with Professional :Collabrative work with C.U.Shah College of Pharmacy  
Institution and KLE university's Dr. Prabhakar Kore BSRC.

**Publications:**

1. Pharmaceutical and chromatographical evaluation of dental gel containing bioactive: catechin, Tejasvi P. Chalke, Abhishek. D. Dorle, Krishna R. Sharma, Sujit K. Nagare and Supriya. S. Jirge, International journal of pharmaceutical research (accepted).
2. Rapid efficient microwave assisted extractraion of *Helicteres Isora linn.* (murud sheng), IJRAP(accepted)
3. Screening of Garcinia fruits extract and fraction for antimicrobial and antifungal activities, Krishna R. Sharma, Tejaswi P. Chalke, Divyesh S. Sagathiya, Sujit K. Nagare, Supriya S. Jirge, Research Journal of Pharmaceutical Biological and Chemical Sciences.
4. Formulation and evaluation of Punica topical gel for its content of gallic acid and anti-microbial study, Tejaswi Chalke, Krishna Sharma, S.K.Nagare and S.S. Jirge, International Journal of Drug Delivery Technology.
5. Development and validation of a novel HPTLC method for simultaneous estimation of Embelin and Catechin, Krishna R. Sharma, Rutuja G. Rahate, Tejaswi P. Chalke and Supriya S. Jirge. International research journal of pharmacy 2016. 7 (8).
6. Design and evaluation of novel topical gel of *Tinospora cordifolia* as anti-microbial agent, D. Dorle, Kumar S. Swami, Sujit K. Nagare, Supriya. R. Hyam, Asian Journal of Pharmaceutical and Clinical Research, 2015, Vol. 8 (6) 237-239.
7. The rhizome mixture of *anemarrhena asphodeloides* and *coptidis chinensis* ameliorates acute and chronic colitis in mice by inhibiting the binding of lipopolysaccharide to tlr4 and irak1 phosphorylation, Jin-Ju Jeong, Se-Eun Jang,

Supriya R. Hyam, Myung Joo Han, and Dong-Hyun Kim, Evidence-Based Complementary and Alternative Medicine, vol. 2014.

8. Simultaneous estimation of kaempferol, rutin and quercetin in various plant products containing bhuiamla and amla. **Supriya S. Jirge**, Pratima A. Tatke and Satish Y. Gabhe JPC - Journal of Planar Chromatography - Modern TLC, 2014, Vol.27 (4), 267-273
9. Ursolic acid isolated from the seed of *Cornus officinalis* ameliorates colitis in mice by inhibiting the binding of lipopolysaccharide to toll-like receptor 4 on macrophages. Se-Eun Jang, Jin-Ju Jeong, **Supriya R. Hyam**, Myung Joo Han, and Dong-Hyun Kim, *Journal of Agricultural and Food Chemistry* 2014 **62** (40), 9711-9721
10. Mangiferin ameliorates colitis by inhibiting IRAK1 phosphorylation in NF- $\kappa$ B and MAPK pathways, Jin-Ju Jeong, Se-Eun Jang, **Supriya R. Hyam**, Myung Joo Han, Dong-Hyun Kim, *European Journal of Pharmacology*, 2014, **740**, 652-661
11.  $\beta$ -Sitosterol attenuates high-fat diet-induced intestinal inflammation in mice by inhibiting the binding of lipopolysaccharide to toll-like receptor 4 in the NF- $\kappa$ B pathway. Kim KA, Lee IA, Gu W, **Hyam SR**, Kim DH, *Mol Nutr Food Res*. 2014 May;58(5):963-972.
12. Anticolitic Effect of the Rhizome Mixture of *Anemarrhena asphodeloides* and *Coptidis chinensis* (AC-mix) in Mice. Se-Eun Jang, Jin-Ju Jeong, **Supriya R. Hyam**, Myung Joo Han and Dong-Hyun Kim. *Biomol Ther*. 2013; 21(5), pp-398-404.
13. Penta-O-galloyl- $\beta$ -D-glucose ameliorates inflammation by inhibiting MyD88/NF- $\kappa$ B and MyD88/MAPKs signaling pathways. Se-Eun Jang, **Supriya R. Hyam**, Jin-Ju Jeong, Myung Han and D.H. Kim, *British journal of Pharmacology*. 2013; 170 (5), pp-1078-1091.
14. *Lactobacillus brevis* G-110 ameliorates colitis in mice by inhibiting NF- $\kappa$ B, MAPK and AKT pathways and polarizing M1 macrophages to M2-like macrophages. Jang Se-Eun; **Hyam Supriya**; Han Myung Joo; Kim Se-Young; Lee Byeong-Gon; Kim Dong-Hyun, *Journal of Applied Microbiology*. 2013;115(3):888-96.

15. Echinocystic acid, a metabolite of lancemaside A, inhibits TNBS-induced colitis in mice. **Supriya R. Hyam**, Se-Eun Jang, Jin-Joo Jeong, Eun-Ha Joh, Myung Joo Han and Dong-Hyun Kim. *Int Immunopharmacol.* 2013, 15 (2), pp-433-441.
16. Arctigenin ameliorates inflammation in vitro and in vivo by inhibiting the PI3K/AKT pathway and polarizing M1 macrophages to M2-like macrophages. **Supriya R. Hyam**, In-Ah Lee, Wan Gu, Kyung-Ah Kim, Jin-Ju Jeong, Se-Eun Jang<sup>2</sup>, Myung Joo Han and Dong-Hyun Kim. *Eur. J. Pharmacol.* 2013, 708 (1-3), pp 21-29.
17. Ginsenoside Re Ameliorates Inflammation by Inhibiting the Binding of Lipopolysaccharide to TLR4 on Macrophages. In-Ah Lee, **Supriya R Hyam**, Se-Eun Jang, Myung Joo Han, Dong-Hyun Kim. *J Agric Food Chem.* 2012, 60 (38), pp 9595–9602.
18. Marker based standardisation of plant based formulations containing *brahmi* using bacosidea by HPTLC. **Supriya Jirge**, S.Y.Gabhe, Pratima Tatke. *International journal of pharmacy and pharmaceutical sciences.* 2014 ; 6 (1), pp-202-207.
19. Marker Based Standardization Of Formulations Containing *Ashwagandha* Using Withaferin A By HPLC. **Supriya Jirge**, S.Y.Gabhe, Pratima Tatke. *World Journal of Pharmaceutical Research.* 2014; 3(1), p-441-451.
20. HPTLC standardization of herbal extracts of *Gmelina arborea* using Umbelliferone. S.S. Shafaq, **Supriya Jirge**, A.K. Latisha , Pratima Tatke, Chhaya Bhatt, V.N. Naharwar. *Medicinal plants International Journal of Phytomedicines and Related Industries.* 2011,3(2), pp-173-175.
21. Development And Validation Of A Novel HPTLC Method For Simultaneous Estimation Of Beta-sitosterol-D-glucoside And Withaferin A. **Supriya S. Jirge**, Pratima A. Tatke and Satish Y.Gabhe. *International Journal of Pharmacy and Pharmaceutical Sciences.* 2011, 3 (2), pp-227-230.
22. Marker based standardization of commercial formulations and extracts containing beta-sitosterol D-glucoside using HPTLC. **Supriya S. Jirge**, Pratima A. Tatke and Satish Y.Gabhe. *International Journal of Research in Ayurveda and Pharmacy.* 2010, 1 (2), pp- 616-623.

23. Pharmacognostic evaluation of the leaves of sesbania sesban(l.). Dhiraj D. Nikam, Yogini S. Jaiswal, **S.S. Jirge** and Yogesh Chaudhari. J. Res. Educ. Indian Med. 2009, Jan-Mar, pp-19-24.
24. Marine: The ultimate source of bioactives and drug metabolites. **Jirge Supriya S**, Chaudhari Yogesh S International Journal of Research in Ayurveda and Pharmacy. 2010, 1 (1), pp- 55-62

**Presentation:**

1. Presented a paper at 1<sup>st</sup> International conference on healthcare and Technical Research (ICHTR 2015)“Stability Assay And Marker Based Standardisation Of Kutja Herbal Products Using Conessine By HPTLC”, held in Manipal University, Manipal, on 22<sup>nd</sup> to 24<sup>th</sup> December 2015.
2. Presented a paper at Translational research in oncology- from bench side to bedside“Anticancer activity of *Hemidesmusindicus* on cancer cell lines: SK-MEL-2”, held in Mumbai , on 10<sup>th</sup>- 11<sup>th</sup> Sept, 2015.
3. Presented a paper at Conservation of natural resources and bioadversity for sustainable development, held in Devrukh, on 04<sup>th</sup>-06<sup>th</sup> December 2014.
4. Presented a paper at Phytopharm 2011 “Marker based standardization of formulations containing *Bacopa monnieri* using BacosideA by HPTLC”, held in Germany, on 25-27 July 2011
5. Presented a paper at South Asian Chapter of American College of Clinical Pharmacology, entitled as, “Marker Based Standardization OfCommercial Formulations Of *Brahmi* Using Bacoside A by HPTLC” held in Mumbai on 10-11<sup>th</sup> December- 2010.
6. Presented two paper at the “21st International Symposium on Pharmaceutical and Biomedical Analysis”, entitled as, “ HPLC method development, validation and marker based standardization of Commercial formulations containing Ashwagandha using Withaferin A”. “Development and validation of a novel HPTLC method for

simultaneous estimation of Beta-sitosterol and Withaferin A” held at Orlando, USA on 11-14 October 2009

7. Presented a paper at the “International Herbal Conference- 2009 for Herbal Medicine – Evaluation of Quality, Efficacy and Safety, entitled as, “Isolation And Characterization Of A Chemical Marker From *Withania Somnifera*” held at Bangalore on 26-28, February 2009.
8. Presented a paper at the “AVISHKAR-2009- Interuniversity Research Festival”, entitled as, “Marker Based Standardization Of Ayurvedic Medicines of *Ashwagandha*  $\beta$  - sitosterol-D-glucoside By HPTLC” held at Amravati, on 8-10th, January 2009.
9. Presented a paper at the “International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicines”, entitled as, “Marker Based Standardization of Commercial Formulations and extracts containing  $\beta$ -sitosterol-D-glucoside using HPTLC” held at NIPER- Chandigarh, on 16<sup>th</sup>-20<sup>th</sup> November 2008.
10. Presented two papers at the ‘**International seminar on Medicinal Plants and Herbal Products**’ entitled as, “Isolation of and characterization of a chemical marker from green tea and black catechu“ and “Standardization of some herbal formulations by chromatographic techniques” held in Tirupati, A.P., from March 7<sup>th</sup>-9<sup>th</sup> 2008.

#### **Conferences and Workshop attended:**

1. AICTE sponsored QIP on “Role of analytical techniques in quality assurance of pharmaceuticals” at KLE university’s COP, Belgavi from 12<sup>th</sup> to 23<sup>rd</sup> Jan 2016.
2. “National workshop on operation and maintenance of laboratory equipment’s” from 10<sup>th</sup> - 14<sup>th</sup> November 2014, organized by University of Mumbai Sub-Centre, Ratnagiri jointly with UGC’s WRIC, Mumbai.