

A/P-Hatnoor, TAL- Kannad, Dist- Aurangabad. 431001 (MH) INDIA



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Dr. KHANAGE SHANTARAM GAJANAN

PRINCIPAL RASHTRIYA COLLEGE OF PHARMACY, HATNOOR, TQ- KANNAD, DIST- AURANGABAD. e-mail: <u>shantaram1982@gmail.com</u> Mobile: 9405476268,9822652921 Qualification: M. Pharm, PhD

PROFESSIONAL EXPERIENCE:

Industrial experience

- * Worked as **Production Chemist** from Dec.2003 to Jan. 2005 in the Production Department in Ajanta Pharma Ltd, Paithan, Aurangabad.
- * Worked as **Production Officer** for Ipca Lab. Ltd. Silvassa, U.T.of D. & N.H. for six months.
- * 6 months **M. Pharm project Training** in Aurobindo Pharma Ltd., Hyderabad **Teaching Experience**
- * From March 2007 to July 2017 as an Assistant Professor, in M. E. S's College of Pharmacy, Sonai.
- * From July 2017 to June 2018 as an Associate Professor and HOD, Department of Pharmaceutical Chemistry at Abasaheb Kakade College of B. Pharmacy Bodhegaon.
- * From **21 June 2018 to 20 January 2020** as **I/C Principal,** Dr. N. J. Paulbudhe College of Pharmacy, Ahmednagar
- * From January 2020 to Nov 2020 as Professor, PG department, M. E. S's College of Pharmacy, Sonai.
- * Form **Nov. 2020 to till Date** as **Principal** Rashtriya college of pharmacy Hatnoor Kannad Dist. Aurangabad

TOTAL EXPERIENCE IN YEARS:

Teaching: 14

Research: 6

Industrial: 2.5

M. PHARM. STUDENTS GUIDED: 20

INSTITUTIONAL AND ADMINISTRATIVE RESPONSIBILITIES:

- Member Local Managing Committee.
- Arrange seminars and guest lectures.
- NACC, NBA, ISO documentation.
- Industrial training and placement.
- Academics and research co-ordinator (ARC-BCUD SPPU)



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- Correspondence to Shikshan shulka samiti.
- Research grants head.
- Correspondence to PCI, AICTE.
- M.Pharm correspondence.
- College Examination Officer (CEO).
- Academic Head.
- Incharge Principal.

CORE COMPETENCY AREAS:

- Process development of drug & drug intermediates at the lab. scale.
- Synthesis of bio-organic compounds and their derivatives.
- Pharmacological evaluation of bio organic compounds.
- Technology transfer to plant scale.
- Analysis and method development of drug, drug intermediates & raw materials using sophisticated instruments like HPLC, FT-IR & UV-Visible spectrophotometer etc.
- Validation of UV-Visible spectrophotometer and HPLC.
- Tablet dissolution, Tablet compression and coating.
- Development of formulations like solid dispersion, microsphere, microsponge, nanoemulsion, nanosuspension, Hydrogel etc.

PUBLICATIONS:

- 1. **Shantaram Khanage**, Popat Mohite, Ramdas Pandhare, Appala Raju, "Synthesis and pharmacological evaluation of isoxazole derivatives containing 1,2,4-triazole Moiety", <u>Marmara Pharmaceutical Journal</u>, 2012, 16, 134-140.
- 2. **Shantaram Gajanan Khanage**, S. Appala Raju, Popat Baban Mohite, Ramdas Bhanudas Pandhare, "Synthesis and Pharmacological Evaluation of Some New Pyrimidine Derivatives containing 1,2,4triazole" <u>Advanced Pharmaceutical Bulletin</u>, 2012, 2(2), 213-222.
- 3. **Shantaram G. Khanage**, Popat B. Mohite and S. Appala Raju, "Synthesis, Anticancer and Antibacterial Activity of Some Novel 1,2,4-Triazole Derivatives Containing Pyrazole and Tetrazole Rings", <u>Asian Journal of Research in Chemistry</u>, 2011, 4(4), 557-553.
- 4. **Shantaram G. Khanage**, Popat B. Mohite, Ramdas B. Pandhare, S. Appala Raju, "Study of analgesic activity of novel 1,2,4-triazole derivatives bearing pyrazole and tetrazole moiety" *Journal of Pharmacy Research*, 2011,4(10), 3609-3611
- 5. **Shantaram G. Khanage**, Popat B. Mohite, Ramdas B. Pandhare, S. Appala Raju, "Analgesic activity of Some 1,2,4-triazole Heterocycles clubbed with pyrazole, tetrazole, isoxazole and pyrimidin", <u>Advanced Pharmaceutical Bulletin</u>, 2013, 3(1), 13-18.
- Shantaram G. Khanage, Popat B. Mohite, Ramdas B. Pandhare, S. Appala Raju, "Investigation of pyrazole and tetrazole derivatives containing 3,5 disubstituted-4H-1,2,4-triazole as a potential antitubercular and antifungal agent", <u>Biointerface Research in Applied Chemistry</u>, 2012, 2 (2), 277-283.
- Khanage S. G, Mohite P. B., Pandhare R. B., Deshmukh V. K., S Appala Raju, "A rational Approach For Synthesis and Characterization of 5-[(5-Phenyl-1H-Tetrazol-1-yl) Methyl]- 3(Substituted Aryl)-4H-1,2,4-Triazoles", <u>Drug Invention Today</u>, 2010,2(4),240-243.
- 8. **Shantaram G. Khanage** and S. Appala Raju, *"In vitro* evaluation of triazoles and pyrimidines as novel antitubercular agents", *Biointerface Research in Applied Chemistry*, 2013, 3(4), 613-618.



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- Khanage S. G., Jawade S. K., Mohite P.B., Deshmukh V.K., "Derivative Spectrophotometric Estimation of Nevirapine in Bulk Drug and Pharmaceutical Dosage Forms", <u>International Journal of</u> <u>Current Research and Review</u>, 2010, 2(1), 17-27.
- 10. **Khanage S. G**., Deshmukh V. K., Mohite P. B., Pandhare R. B., Appala Raju, "Triazoles: A Versatile Therapeutic Agent", *International Journal of Current Research and Review*, 2010, 2(3), 44-55.
- 11. Khanage S. G., V.K. Deshmukh, P. B Mohite , V. M Dhamak , S. Appala Raju, "Development of Derivative Spectrophotometric Estimation of Atazanavir sulfate in Bulk Drug and Pharmaceutical Dosage Forms", *International Journal of Pharmacy and Health Science*, 1(3), 2010, 149-154.
- 12. Shantaram Gajanan Khanage, Popat Baban Mohite, Sandeep Jadhav, "Development and Validation of UV-Visible Spectrophotometric Method for Simultaneous Determination of Eperisone and Paracetamol in Solid Dosage Form", <u>Advanced Pharmaceutical Bulletin</u>, 2013, 3(2), 447-451.
- Shantaraman G. Khanage, Popat B. Mohite, Ramadas B. Pandhare, Appala S. Raju, "Synthesis and antimicrobial activity evaluation of some substituted N'[arylidene]-2-(3-methyl-5-pyridin-4-yl-1H-1,2,4-triazol-1-yl) acetohydrazide compounds", <u>Biointerface Research in Applied Chemistry</u> 2012, 2(5), 417-423.
- 14. **Shantaraman G. Khanage**, Popat B. Mohite, Ramadas B. Pandhare, Appala S. Raju, "Synthesis, characterization and antimicrobial evaluation of 3,5 diphenyl-1*H*-1,2,4-triazole containing pyrazole function" *Biointerface Research in Applied Chemistry* 2012, 2(3), 313-319.
- 15. **Shantaraman G. Khanage**, Popat B. Mohite, Ramadas B. Pandhare, Appala S. Raju, "Microwave Assisted Synthesis of 1-[5-(Substituted Aryl)-1H-Pyrazol-3-yl]-3,5-Diphenyl-1H-1,2,4-Triazole as Antinociceptive and Antimicrobial Agent", <u>Advanced Pharmaceutical Bulletin</u>, 2014, 4(2), 105-112.
- 16. **Shantaram Gajanan Khanage** and Appala Raju S. "Anticancer Activity Of Some Novel 1-(3,5-Diphenyl-1h-1,2,4- Triazol-1-Yl)-3- (Substituted Aryl)Prop-2-En-1-One". *Journal of Current Research In Science.* 2013, 1(6), 521-525.
- 17. **Shantaram Gajanan Khanage** and Dnyaneshwar Santram Kale. "Reversed Phase High Performance Liquid Chromatographic Method for Simultaneous Estimation of Pregabalin and Aceclofenac in Tablet Formulation (Acenac-N)". *Journal of Reports in Pharmaceutical Sciences.* 2014, 3(2), 184-192.
- Khanage SG, Mohite PB, Dudhade MR and Deshmukh VK. 01 "Separation and Determination of Prochlorperazine Maleate and Pyridoxine Hydrochloride in Tablet Formulation by RP-HPLC". <u>Austin</u> <u>Journal of Analytical and Pharmaceutical Chemistry.</u> 2014; 1(3): 5.
- 19. **Khanage SG**, Mohite PB, Dharam PG and Deshmukh VK. "Development and Validation of Reversed Phase High Performance Liquid Chromatographic Method for Simultaneous Estimation of Paracetamol, Caffeine and Carisoprodol in Tablet Formulation". <u>Eurasian Journal of analytical</u> <u>chemistry</u>. 2015; 10(3): 163-179.
- Khanage SG, Mohite PB, Dharam PG and Deshmukh VK. "UV-Spectrophotometric Method for the Simultaneous Estimation of Carisoprodol, Paracetamol and Caffeine: Validation and Application for Marketed Tablet Analysis". <u>Iranian Journal of analytical chemistry</u>. 2015; 2(2): 120-126.
- 21. Khanage S. G., Mohite P. B., Pandhare R. B., Deshmukh V. K., S Appala Raju. "Triazoles: A versatile therapeutic agent". *International Journal of Current Research and Review*; 2010; 2(3):43-55.
- 22. **Khanage S. G.,** Shinde R.C., Mohite P. B., Pandhare R. B., Deshmukh V. K. "Simultaneous estimation of Levosulpiride and Pantoprazole sodium in capsule dosage form by RP-HPLC method". <u>Annals of West University of Timisoara</u>, 2014; 22(3-4):23-34.
- Ramdas B Pandhare, Popat B Mohite, Shantaram G Khanage, B.Sangameswaran. 'Anthelmintic activity of leaves of *Butea frondosa* Linn.' *Journal of Pharmacy Research*, 2009,vol-2, Issue-3,pp 421-423.
- 24. Ramdas B Pandhare, Popat B Mohite, **Shantaram G Khanage**, B.Sangameswaran. 'Evaluation of anticonvulsant activity of *Aegle marmeloscorr*. leaves and fruit extract against MES and



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Pentylenetetrazole induced convulsion.' *Journal of Pharmacy research*, 2009, vol-2, Issue-12, pp. 1852.

- Ramdas B. Pandhare, Popat B. Mohite, Shantaram G. Khanage, Santosh N.Belhekar, B.Sangameswaran, V.K.Deshmukh 'Effect of aqueous and ethanol extracts of *Benincasa cerifera* on diuresis and urinary electrolytes excretion in rats.; <u>Drug Invention Today</u>, 2010, Vol-2, Issue (6), pp. 308.
- 26. Ramdas B. Pandhare, B. Sangameswaran, Popat B. Mohite, **Shantaram G. Khanage**. Antidiabetic Activity of Aqueous Leaves Extract of *Sesbania sesban* (L) Merr. in Streptozotocin Induced Diabetic Rats. *Avicenna J Med Biotech* 2011; 3(1): 37-43.
- 27. Ramdas B. Pandhare, B. Sangameswaran, Popat B. Mohite, **Shantaram G. Khanage**. Aqueous extracts of the leaves of *Sesbania sesban* reduces development of diabetic nephropathy in streptozotocin induced diabetic rat. *Bangladesh J Pharmacol* 2010; 5: 103-106.
- Pandhare R. B., Sangameswaran B, Mohite P.B., Khanage S.G. Acute and sub acute oral toxicity assessment of aqueous leaves extract of *Sesbania sesban*(L) Merr. in rats. <u>*Res Pharmaceutica*</u>, 2011 Vol. 2, Issue 4, 33-39.
- 29. Ramdas B. Pandhare, B. Sangameswaran, Popat B. Mohite, **Shantaram G. Khanage**. Attenuating effect of *Sesbania sesban* (L) Merr. extract on neuropathic pain in streptozotocin-induced diabetic rats: an evidence of neuroprotective effects. *Phytopharmacology*, 2012, 2(2):1-12.
- 30. Ramdas B. Pandhare, B. Sangameswaran, Popat B. Mohite, **Shantaram G. Khanage** Attenuating effect of seeds of *Adenanthera pavonina* L. aqueous extract in neuropathic pain in streptozotocininduced diabetic rats: an evidence of neuroprotective effects. *<u>Rev. Bras. Farmacoqn</u>*, 2012, vol.22, n.2, pp. 428-435.
- 31. Popat B Mohite, Ramdas B Pandhare, **Shantaram G Khanage**, Vaidhun H Bhaskar; Spectrophotometric Estimation of Ofloxacin in Bulk Drug and Pharmaceutical dosage forms, <u>Analytical Chemistry An Indian Journal</u>; 8(1); 2009; 56-58.
- 32. Popat B Mohite, Ramdas B Pandhare, **Shantaram G Khanage**, Sandip H Bodkhe, Vinayak K Deshmukh; Derivative Spectrophotometric Estimation of Azathioprine in Bulk Drug and Pharmaceutical Dosage Forms, <u>Analytical Chemistry An Indian Journal</u>; 8(1);2009;54-55.
- 33. Pandhare Ramdas.B., Mohite Popat.B., **Khanage Shantaram G,** Sangameswaran B. In vivo anticonvulsant activity of Aegle marmelos Corr. Against pentylenetetrazole and electroconvulsive seizure in mice.; *Journal of Pharmacy Research* Vol.2.Issue 12.December 2009,1852-1854.
- Mohite PB, Pandhare RB, Khanage SG and Bhaskar VH;Potassium Ferricynide and Ferric Chloride: A Chromogenic Reagent for Estimation of Tranexamic Acid by Spectrophotometry <u>Asian J. Research</u> <u>Chem.</u> 2(3): July-Sept., 2009,pp.273-274.
- 35. Popat B Mohite, Ramdas B Pandhare, **Shantaram G, Khanage**, Vaidhun H Bhaskar; Derivative Spectrophotometric Estimation of Minocycline Hydrochloride in Bulk and Pharmaceutical Dosage Forms; *International Journal of PharmTech Research* Vol.2, No.1, Jan-Mar 2010, pp 177-180.
- 36. Popat B Mohite, Ramdas B Pandhare, **Shantaram G, Khanage**, Vaidhun H Bhaskar; Synthesis and Anti-Inflammatory Activity Of Some 5-Phenyl-1-(Acyl)-1,2,3,4-Tetrazole *Journal of Pharmacy* <u>*Research*</u> 2010, 3(1),43-46.
- 37. Jawade S.K., Khanage S. G., Mohite P. B., Deshmukh V. K., Derivative Spectrophotometric Estimation of Nevirapine in Bulk Drug and Pharmaceutical Dosage Forms; <u>International Journal of</u> <u>Current Research and Review</u>; Vol.2, Issue-1, Jan-Feb-2010; 17.
- Popat B. Mohite, Shantaram G. Khanage, Vaidhun H. Bhaskar, Absorption correction method for estimation of Mefenamic acid and Tranexamic acid in combined tablet dosage form <u>International</u> <u>Journal of Current Research and Review</u>, Vol. 02 issue 5 May 2010,14-19.



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- P. B. Mohite, R. B.Pandhare, S. G. Khanage, V. H. Bhaskar, A novel approach for synthesis of substituted Tetrazoles, Digest *Journal of Nanomaterials and Biostructures* vol. 4, no. 4, December 2009, p. 803 – 807.
- 40. Popat B. Mohite, Ramdas B.Pandhare, **Shantaram G. Khanage**, Vaidhun H. Bhaskar, Derivative Spectrophotometric Estimation of Minocycline Hydrochloride in Bulk and Pharmaceutical Dosage Forms, *International Journal of PharmTech Research*, Jan-Mar 2010, Vol.2, No.1, pp 177-180.
- 41. Popat B. Mohite, Ramdas B. Pandhare, **Shantaram G. Khanage**, Vaidhun H. Bhaskar, Synthesis and in vitro antimicrobial activity of some novel chalconescontaining 5-phenyl tetrazole, <u>Acta</u> <u>Pharmaceutica Sciencia</u>, (2010),52: 505-510.
- 42. P. B. Mohite, R. B.Pandhare, **S. G. Khanage**, V. H. Bhaskar, Synthesis and charecterisation of some 5phenyl-1-(acyl)-1,2,3,4-Tetrazoles, *International journal of pure and applied chemistry*,5(3),July-Sept.2010,p.221-224.
- 43. Potential Pharmacological Activities of Tetrazoles in The New Millennium, Mohite P.B., Bhaskar V.H., **Khanage S. G.** <u>International Journal of PharmTech Research</u>, July-Sept 2011. Vol.3, No.3, pp 1557-1566.
- 44. Khanage S. G., Mohite P. B., Pandhare R. B., Deshmukh V. K., S Appala Raju; Deshmukh V. K. Triazoles: A versatile therapeutic agent;, *International Journal of Current Research and Review*; Vol.2,Issue-3,Mar-Apr-2010;43-55.(
- 45. **Khanage S. G.,** Mohite P. B., Tarwade S. V., Deshmukh V. K. Formulation and evaluation of hydrogel based nano crystals of Quetiapine. *Caribbean Journal of Science and Technology*, Vol.4, 2016, 951-962.
- 46. **Khanage S. G.,** Mohite P. B., Toge S. V., Deshmukh V. K. Simultaneous determination of Amoxicillin trihydrate, Pantoprazole sodium and Clarithromycin in bulk powder and tablet formulation by an isocratic RP-HPLC method. *The Experiment*, Vol. 39(3), 2017, 2330-2344.
- 47. **Khanage S. G.** Formulation and evaluation of Carisoprodol microsphere for sustained drug delivery. <u>Caribbean Journal of Science and Technology</u>, Vol.5, 2017, 51-64.
- 48. **Khanage S. G.,** Shende S. B. Reversed Phase High Performance Liquid Chromatographic Method for simultaneous estimation of metformin and Teneligliptin in tablet formulation. <u>*The Experiment*</u>, Vol 45(2), 2018, 2583-2597.
- 49. **Khanage S. G.,** Tarkasband Y.S., Inamdar R.B. Herbal drugs meant for the treatment of polycystic ovary syndrome (PCOS) and its complications. *Pharmaceutical resonance*, 2(1), 2019, 5-13.

Book Publications

Title: Synthesis and Biological Activities of Clubbed Triazole-Pyrazoles. Authors: Dr. Shantaram Khanage and Dr. S. Appala Raju Publication: Lambert Publication, Germany Publication Date: 13/05/2017 ISBN-13: 978-3-659-79166-6 ISBN-10: 3659791660 EAN: 9783659791666



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PRESENTATIONS/EXPERT TALKS:

•BCUD Innovation-2010: Regional conference for Pune university teachers held at Sangamner.

•BCUD Innovation-2012: Regional conference for Pune university teachers held at ALARD College Pune.

•One day Zonal level research project competition, at N.A.C.S. College Rahuri in Dec. 2016.

•Delivered seminar at A.K.C.O. B. Pharmacy, Bodhegaon in Sept. 2016, on "Corticosteroids and steroidal anti-inflammatory agents".

•Delivered seminar in Dec 2017 on "Handling of Analytical equipment's- FT-IR and interpretation" in Dec 2017, At M.E.S. College of Pharmacy, Sonai.

•Delivered seminar in Jan 2019 on "Past, present and future of Pharmacy-Carrier opportunities in pharmacy profession", At Shri Dhaneshwari Manav Vikas Mandals Diplom

SEMINARS / WORKSHOPS / CONFERENCES ATTENDED/ FACULTY DEVELOPMENT PROGRAMMES:

- 53th Indian Pharmaceutical Congress 2002, Pune. (Presented poster)
- 57th Indian Pharmaceutical Congress 2005, Hyderabad
- 60th Indian Pharmaceutical Congress 2009, Delhi. (Presented poster)
- 63rdIndian Pharmaceutical Congress 2011, Bangalore.
- (Presented poster)
- 64th Indian Pharmaceutical Congress 2012, Chennai. (Presented poster)
- 66th Indian Pharmaceutical Congress 2014, Hyderabad.
- (Presented poster)
- Two day workshop on "Drug Design technique: Fundamental and Futures" at P.D.V.V.P.F's College of pharmacy, Ahmednagar. 2010.

• Ten day's QIP (Staff Development Program) on "Recent advances In Drug Design and Discovery" at P.D.V.V.P.F's College of pharmacy, Ahmednagar in 2011.

• BCUD Innovation-2010: Regional conference for Pune university teachers held at Sangamner. (Presented PPT)

• BCUD Innovation-2012: Regional conference for Pune university teachers held at ALARD College Pune. (Presented PPT)

• On day workshop on recent trends in herbal drugs at M.E.S. College of Pharmacy, Sonai in January 2011.

•Two days workshop on personality development at M.E.S. College of Pharmacy, Sonai in August 2015.

•Two days seminar on current pharmacy practice and innovation in pharmaceutical technology, at A.K.CO Pharmacy, Bodhegaon in Jan 2016.

•One day Zonal level research project competition, at N.A.C.S. College Rahuri in Dec. 2016. (Presented PPT)



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- Two days training for auditing of Quality Management System As per ISO 9001-2015, At MES College of Pharmacy, Sonai in Dec 2016.
- Two days national level seminar At St. Gajanan Maharaj College of Pharmacy, Garhinglaj, Karad in Jan 2017. (Presented Poster)
- Four days' workshop on Handling of Analytical equipment's in Dec 2017, At MES College of Pharmacy, Sonai. (Delivered seminar)
- One days' state level seminar in Jan 2019, At SDMVM'S Diploma in Pharmacy Institute, Aurangabad. (Delivered seminar)
- One Week National Online Faculty Development Program on "ICT Tools for Effective Teaching Learning" Conducted by Swami Ramanand Teerth Marathwada University, Nanded, 11-16 May 2020.
- One Week Online Faculty Development Programme on "Climbing the Ladder of Education System Through Innovation & E- Learning Tools " from 04.05.2020 to 09.05.2020 organized by Information Technology Department, Sir Vishveshwarya Institute of Technology, Nasik.
- Two days National Online Faculty Development Program on "Outcome based education A need for an hour" Conducted by STCOP, Shrirur, 19-20 May 2020.
- Five days Faculty Development Programme on "Building research and Innovative culture among pharmacy teachers" from 18.05.2020 to 22.05.2020 organized by DYPIPSR, Pimpri, Pune.

RESEARCH PROJECTS:

- Principal Investigator of project "Synthesis and evaluation of pharmacological activities of newer 1, 2, 4-triazole derivatives." of BCUD, University of Pune, Pune. Grant Rs. 2 lacks (completed in 2011-13).
- Principal Investigator of a Project entitled "Design and synthesis of some novel 14 α -demethylase inhibitors containing 1,2,4-triazole as an active lead." under BCUD, University of Pune, Grant Rs. 1.80 lacks. (Completed in 2016-18).

CONSULTANCY AND TRAINING ACTIVITIES:

• Provides training and UV, HPLC, FT-IR Instrumentation and method development.





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- Registered Pharmacist with Maharashtra State Pharmacy Council.
- Member of editorial board of Journal der Pharmazie Forschung.
- Member of editorial board of Journal IP Innovative Publication Pvt. Ltd.