

DR. Gayatri Rajendra Barabde

M,sc. Ph.D.

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Research area: Nano science, Pharmaceuticles, Co-ordination chemistry, surfactants, Chromatography

Dr. Gayatri Rajentra Barabde

- 1) Member of syllabus committee of Mumbai university for MSc part II
- 2) Secretary of Golden Jubilee Trust Fund Of Institute of Science Mumbai

Publications:-

1.	OPLC (optimum performance laminar chromatography) a bridge between Hplc And Hptlc Gayatri Barabde I j r b a t, issue (3), vol. li, may 2015: 209-211 issn 2347 – 517x 209 international journal of researches in biosciences, agriculture and technology © vishwashanti multipurpose society (global peace multipurpose society) r. No. Mh-659/13(n)
2.	Study of effect of sterioisomers on separation of toxic metal ions by thin layer chromatographystudy of effect of sterioisomers on separation of toxic metal ions by thin layer chromatography Gayatri barabde Scholars world-, print: issn 2319-5789 impact factor : 1.229

3.	Hydropes as effective reaction media for the synthesis of Rafoxanide Manoher Lokhande, Gayatri Barabde Journal of Applicable Chemistry 2014 ISSN No. 2278-1862. Impact Factor 1.211
4.	Comparative study of UV- Visible Spectrophotometry and HPLC Method for determination of Caffeine from Commercial Sample. S. R. Ambadekar, G. R. Barabde, Sushant Solkar AARJMD. Vol. 2(3), Aug (2015).
5.	Comparative Study of Estimation of Clopidogrel Bisulphate from Commercial Sample by UV- Visible Spectrophotometer and HPLC Method. G. R. Barabde, S. R. Ambadekar Quest Journals, Journal of Research in Pharmaceutical Science. Vol. 2(9), 17-20 2015.
6.	Comparative Study of Estimation of Fexofenadine Hydrochloride by UV- Visible Spectrophotometer and HPLC Method. G. R. Barabde, S. R. Ambadekar, Anil Nishad Quest Journals, Journal of Research in Pharmaceutical Science. Vol. 2(12), 1- 4, 2015.
7.	Comparative Study of Estimation of Asprine from Commercial Sample by UV- Visible Spectrophotometer and HPLC Method. S. R. Ambadekar, G. R. Barabde IOSR Journal of Applied Chemistry. Vol. 7(9), 57-61, Sep (2014).
8.	Method Development, Validation and Rapid Determination of Cetrizine Hydrochloride Drug by Spectrophotometer and Chromatographic Techniques. Gayatri Barabde, Sushama Ambadekar, Anil Nishad Scholars World – International Refereed Multidisciplinary Journal of Contemporary Research. Vol. 4(2), 151-156, April (2016).
9	Comparative study of determination of IRBESARTAN by U,V. spectroscopy & RP- HPLC method. Vikram Chaudhari, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13

10	<p>Comparative study determination of percentage purity of Common salt by ion exchange & Flame Emission Spectroscopy. Meena Bade, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
11	<p>Comparative study of estimation of Caffeine from commercial sample by U.V. spectroscopy & RP- HPLC method. Amit Ratwadkar, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
12	<p>Comparative study of estimation of colpidrogel bisulphate from commercial sample by U.V. spectroscopy & RP- HPLC method. Devendra Pagarer, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
13	<p>Comparative study of Removal of Hardness of Water by using different Cation exchangers. Dharmpal Sharma, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
14	<p>Comparative study of Determination of blood glucose by glucometer & glucose oxidase method. Neelam Shinde, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
15	<p>Determination of Vit- C in Natural products & commercial sample using different methods. Priyanka Bhagwat, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
16	<p>Comparative study to determine the quality of textile fibre of different brands & local market product in Mumbai region. Rohan Ambede, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
17	<p>Comparative determination of sodium content from different brands of potato chips by Mohrs methods & FES. Rohit Ambede, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>

18	<p>Analysis of different brands of soft drinks to study parameters that are health perilous.</p> <p>Snehal Ghadge, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
19	<p>Analysis of Commercially available detergents by classical methods.</p> <p>Sonal Bhowar, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
20	<p>Determination of elements in Talcum powder on Inductively Coupled Plasma.</p> <p>Sonu Bhagat, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
21	<p>Comparative study of estimation of Fexofenadine HCL from commercial sample by U.V. spectroscopy & RP- HPLC method.</p> <p>Sunita Bhosale, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
22	<p>Rp- HPLC analysis of Camptothecin content in various parts of Nothapodytes foetida</p> <p>Sandip Pawar, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
23	<p>Chemical analysis of reused edible oils by different methods.</p> <p>Suyash Mane, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
24	<p>Determination of Urine hCG by classical & strip method.</p> <p>Vijaya Jadhav, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
25	<p>Quality Control & methods of analysis of Honey</p> <p>Sneha Waghmare, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>
29	<p>Determination of heavy metals from churna by inductively coupled Plasma Spectroscopy</p> <p>Bhagyeshree Chavan, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13</p>

30	Comparative study of determination of fluoride from Toothpaste by UV-Visible spectrophotometer & fluoride ion selective electrode. Priyanka Mhatre, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13
31	Study of different types of Vinegar by Classical method. Reshma Budhe, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13
32	Analysis of Antacids to compare their acid neutralizing property. Madhuri Patil, Sushama Ambadekar & Gayatri Barabde. RSM Organised By Institute Of Science. Mumbai, 2012-13
33	STUDY OF URBANIZATION ON THE DRINKING WATER QUALITY IN VASHI, NEW MUMBAI (MS), INDIA GAYATRI BARABDE AND POONAM YADAV
34	PHYSICO-CHEMICAL STUDIES OF GROUND WATER IN SUB-URBAN REGION OF THANE DISTRICT GAYATRI BARABDE AND JAGDISH RAO

Research Students:

Sr. No.	Name	Title	Publications	Remark
1.	Aqeela Sattar	Optimization of extraction process for active ingredients and study of Antioxidant, Antimicrobial properties of Nigella Sativa (kalonji) in combination with other Indian spices		Working

2.	Shreekant Naik	Synthesis, structural elucidation, thermal properties and biological activities of some derivatives and complexes of barbituric acid.		Working
3.	Arti Kokate	Development and validation of antihistamine drugs by spectrophotometric and chromatographic techniques.		Working

No. of M.Sc by Research Students – 02

Sr. No.	Name	Title	Publications	Remark
1.	Anil Nishad	Method development, validation and Rapid determination of Cetirizine Hydrochloride, Fexofinadine Hydrochloride and Pantoprazole Sodium Drugs By Spectrophotometry And Chromatographic Techniques.	Comparative Study of Estimation of Fexofenadine Hydrochloride by UV- Visible Spectrophotometer and HPLC Method.	Degree Awarded
2.	Asmita Sarfare	Study of Novel organometallic Schiff base compounds		working

Workshops, Seminars, Conferences attended

- 1) One day workshop on ' Microscale Techniques used in Organic Chemistry, organized by Board of studies in chemistry at Vivekananda Education society's college, on 4 th and 5 th July 2003
- 2) One day workshop on ' Significance of Research for Teachers in changing Era', organized by Ismail Yusuf College, Jogeshwari on 1 st April 2010.
- 3) One day workshop on ' Significance of Research for Teachers in changing Era', organized by Ismail Yusuf College, Jogeshwari on 1 st April 2010.
- 4) . National Conference 2012 on ' Latest Technologies and their Applications in Forensic Science and Digital Forensics' organized by Institute of Forensic Science, Mumbai, on 6 th , 7 th March 2012.
- 5) One day workshop for post graduate teachers in organic Chemistry on M. Sc.I sem I and II revised syllabus, organized by Board of studies in chemistry at Zunzunwala College, Ghatkopar. Mumbai on 3 rd July 2012.
- 6) National level workshop on ' Tools and Analytical Techniques in Life Sciences' organized by Elphiston college in collaboration with micro sat Biolab on 22 nd April to 28 th April 2013.
- 7) One day symposium on ' Ion Chromatography: Principles, Developments and Applications ' organized by Chromatographic society of India at Chemistry Department I. I. T. Bombay on 29 th June 2013
- 8) International conference – Chemistry Cutting Edge: Nano, Green and beyond organized by St. Xaviers college(Autonomous), Mumbai. held on 6 th and 7 th January, 2014.

- 9) National conference – Frontiers in the field of Science, Technology and Sustainability organized by Elphinstone College, Mumbai. held on 14 th and 15 th February 2014.
- 10) Short Term Course on “ Contemporary Strategies for Teaching and Evaluation” conducted by UGC Academic Staff College, Mumbai. during 14 March to 21 March, 2014.
- 11) One day National level Workshop on “ HPTLC and Hyphenated HPTLC Technique HPTLC MS” held on 14 th August 2015, organized by the Department of Botany, The Institute of Science, Mumbai in collaboration with ANCHROME India.
- 12) UGC- SAP sponsored International conference on New Horizons in Synthetic and Material Chemistry (ICSMC-2015) organized by Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (East) Mumbai 400098, India. On 26-28 November, 2015.
- 13) UGC- SAP sponsored International conference on New Horizons in Synthetic and Material Chemistry (ICSMC-2015) organized by Department of Chemistry, University of Mumbai, Vidyanagari, Santacruz (East) Mumbai 400098, India. On 26-28 November, 2015.
- 14) One day workshop on, “Radiochemistry and Applications of Radioisotopes,” conducted jointly by Department of Atomic energy (DAE), Board of Research in Nuclear Sciences (BRN), Indian Association of Nuclear Chemists and Allied Scientists (IANCAS) and Department of Chemistry, Maharshi Dayanand College of Arts, Science and Commerce, Parel, Mumbai-12 on August 20, 2016.
- 15) Worked as National and International advisory committee member for, “International Awards Ceremony and Global Science Congress” on Emerging Trends in Basic and Applied Sciences (ETBAS-2017) at May 17 th -20 th , 2017 at Kathmandu, Nepal in association with soil and water conservation society, (SOWCOS), Kathmandu, Nepal.
- 16) Attended the workshop on the Revised Syllabus of M.Sc (CBGS Semester I and II) organized by Department of chemistry K.C. College in collaboration with The Board Studies in Chemistry, University of Mumbai on October 3, 2017

- 17) Attended State level one day workshop on, “ Current Amendments in Academic Performance Indicator (API) for College teachers & Developing E-content,” organized by Elphinston College, Mumbai on 29 th November 2017
- 18) Worked as Organizing Committee Member for National Seminar on Recent Trends in Science and technology for Sustainable Developments 2018 [RTSTSD-2018] on 22 nd and 23 rd March,2018 at The Institute of Science, Mumbai.
- 19) Attended National Seminar on Recent Trends in Science and technology for Sustainable Developments 2018 [RTSTSD-2018] on 22 nd and 23 rd March,2018 at The Institute of Science, Mumbai

Project:

Completed project of Mumbai University titled “Method development, validation and Rapid determination of Cetirizine Hydrochloride, Fexofinadine Hydrochloride and Pantoprazole Sodium Drugs By Spectrophotometry And Chromatographic Techniques”.

Topics Tought:

- 1) Thermal methods
- 2) Spectroscopy
- 3) Forensic Science
- 4) Biochemistry
- 5) Chromatography