



Shri Vile ParleKelavaniMandal's

Dr. Bhanuben Nanavati College of Pharmacy

Gate No. 1, SVKM Campus, First Floor, V.M. Road, Vile Parle(W), Mumbai 400 056

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Annual report of the Department of Pharmaceutics

Academic Year 2018- 2019 (July2018- June2019)

Faculty

Dr.Munira Momin, Dr. Sujata Sawarkar, Mrs. Padmini Ravikumar, Dr. Pramod Kadu, Dr. Prabha Singh, Dr. Meenal Rane, Dr. Pramila Chaubey.

New Joinee: Mrs. Prachi Pimple – joined from October 2018

This annual report illustrates the various activities of the Dept. of Pharmaceutics for the Academic Year 2018-19.

❖ Academic activity

- Theory lectures and laboratory sessions were taken as per the assigned workload and timetable for the AY 2018-19.
- Dr. Prabha Singh and Dr. Meenal Rane were actively involved in coordination activities for Final Year and Second Year B.Pharm students being their class teachers.
- Faculty conducted tutorials, quiz and assignments to assess the student understanding of the coursework.
- Student mentorship and career guidance activities were conducted on a need basis for both the UG and PG students.
- The faculty actively conducted various examination related activities viz. University of Mumbai paper setting, paper correction, paper moderation, paper revaluation.
- Dr. Sujata Sawarkar actively coordinated activities of academic committee, placement committee and short term certificate courses
- Mrs. Padmini Ravikumar along with class teachers coordinated for examination activities for smooth conduct of exams and assessment of answer books and declaration of results and its analysis.
- Dr. Prabha Singh was actively involved in activities of cultural committee.
- Dr. Munira Momin was appointed by University of Mumbai as **members of Local Inspection Committee** and inspected affiliated colleges for B.Pharm and M.Pharm affiliations.
- Dr. Sujata Sawarkar as AICTE CII coordinator was actively involved in submission of AICTE CII report.
- Dr. Meenal Rane participated in MasterMind 2019.
- Dr. Meenal Rane organized industrial visit for M..Pharm at GLenmark in January 2019
- Dr. Meenal Rane was coordinator for Entrepreneurship Awareness Camp in January 2019.



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❖ Extra-academic/ Extra-curricular activity

- The dept. faculties were members of many college committees. As a part of these committees they were actively involved, participated in committee meetings, resolved issues, maintained documentation and reports of the same.
- They were actively involved in NBA and NAAC activities including compilation of files and preparation of supporting documents, collection and interpretation of data on various courses. Dr. Sujata Sawarkar, Mrs. Padmini Ravikumar and Dr. Prabha Singh are active members of NBA and NAAC core committee and PAC committee
- Dr. Sujata Sawarkar was Course coordinator and faculty for add on courses (Drug Regulatory Affairs and Pharmacovigilance). She was involved in organizing Industrial advisory committee meeting, framing the syllabi of both the courses, coordination with visiting faculty. For this academic year, Pharmacovigilance course was in collaboration with Indian Society of Clinical Research (ISCR).
- Dr. Sujata Sawarkar and Mrs. Padmini Ravikumar were actively involved in placement activities. Dr. Prabha Singh was actively involved in placement of students for internship.
- Dr. Sujata Sawarkar coordinated the activity of AICTE CII.
- The faculty played an active role in organization of various courses awareness programs, seminars and workshops.
- Dr. Sujata Sawarkar has been executive council members of Controlled Release Society Indian Chapter (CRS IC) and has been members of organizing and scientific committee of seminars and workshops.
Dr. Sujata Sawarkar has Secretary of CRS IC for the years 2017-2019
 - 17th International Symposium on Advances In Technology and Business Potential of New Drug Delivery Systems, February 2019
- Dr. Munira Momin was invited as an examiner for Ph.D. Thesis Viva-Voce Examination at Gujarat University, Institute of Chemical Technology, Savitribai Phule University Pune.
- Dr. Sujata Sawarkar was invited as an examiner for M.Pharm. Thesis Viva-Voce Examination at ICT.
- Dr. Munira Momin was jury of Communication Catalyst 2019 for Malnutrition management jointly organized by BNCP and Idobro and Glenmark foundation. **BNCP hosted the event on 13th April 2019. Dr. Sujata Sawarkar was felicitated as ambassador and Dr. Munira Momin as jury for the event.**



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❖ Seminars and other events organized by the department

1. one-day work on Capsules in joint collaboration with ACG worldwide on 6th July 2018 – Dr. Sujata Sawarkar & Dr. Meenal Rane as coordinators
2. syllabus orientation and discussion meeting for TY Pharmaceutics subjects on 16th July 2018 on behalf of University of Mumbai – Dr. Sujata Sawarkar & Dr. Pramila Chaubey as coordinators
3. One day Seminar – Career Guidance – Unlocking Pharmacy career for TY and M.Pharm students on 1st September and 29th September 2018 – Dr. Sujata Sawarkar and Mrs. Padmini RK as members of Career Guidance and Placement Cell
4. Dr. Munira Momin, Dr. Sujata Sawarkar, Mrs Padmini RK and Dr. Prabha Singh participated in Academic Audit of institute held on 3rd September 2018
5. One day for Women Health and Wellness camp held on 24th September 2018 in collaboration with Medical Research Centre, Kasturba Health Society (MRC KHS) and Mumbai Obstetrics & Gynaecological Society and Mumbai Menopause Society – Dr. Sujata Sawarkar as Convenor.
6. Symposium, **Menopause: A Path to Bone and Muscle Health** held on 25th September 2018 in collaboration with Medical Research Centre, Kasturba Health Society (MRC KHS) and Mumbai Obstetrics & Gynaecological Society and Mumbai Menopause Society - Dr. Sujata Sawarkar as Convenor.
7. One-day workshop entitled “REPLACING REGULATORY EXPERIMENTS ON ANIMALS: An Introduction to In Silico Models and In Vitro Test Methods” on 3rd November 2018. Mrs Padmini Ravikumar and Dr. Prabha Singh were Convenor and Coordinator for the event
8. Talk entitled **How to effectively publish and communicate your science internationally** was organized on 13th December 2018. The speaker was Dr. Bhavik Sawhney, Associate Editor, BioMedicine, Springer Nature.
9. One day workshop entitled “Pharmaceutical Design of Experiments” for M.Pharm and Ph.D. students on 22nd December 2018. Dr. Munira Momin and Dr. Pramila Chaubey were the resource persons for the event.
10. One day seminar entitled “Awareness of Intellectual Property” as part of skill development programme jointly in collaboration with Indian Patent Office, Mumbai, Government of India on 24th December 2018. The speaker was Mr. Ankush Wankhede Patent Examiner Indian Patent office – Dr. Prabha Singh as coordinator.
11. Seminar Compartmental Concepts in Pharmacokinetics and In Vitro - In Vivo Correlations on 9th February 2019 – Dr. Sujata Sawarkar and Dr. Meenal Singh as coordinator.



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12. National Seminar “Applications of Carbopol® Polymers in Pharmaceutical Formulations Jointly organized By Lubrizol Life Sciences and BNCP on 10th April 2019 - Dr. Sujata Sawarkar and Dr. Meenal Singh as coordinator.
13. Communication Catalyst 2019 for Malnutrition management jointly organized by BNCP and Glenmark foundation and Idobro on 13th April 2019 - Dr. Sujata Sawarkar as coordinator.

❖ Research activity

The department faculty is actively involved in research activities including publications, presentations, Invited Resource Persons and research proposal submissions.

❖ Publications

Faculty	Title of the patent / paper/ Name of the journal/ Publication date/ Impact factor
Dr. Munira Momin	<ul style="list-style-type: none"> • Polymeric Lipid Hybrid Nanoparticles: Properties and Therapeutic Applications, Critical Reviews™ in Therapeutic Drug Carrier Systems, Volume 35, 2018 Issue 6, pages 555-588, 2018, IF : 2.414 • Formulation evaluation of ketoconazole microemulsion-loaded hydrogel with nigella oil as a penetration enhancer, J Cosmet Dermatol. 2019;1–9. Impact Factor: 1.529 • Selective drug deposition in lungs through pulmonary drug delivery system for effective management of drug-resistant TB, Expert Opinion on Drug Delivery, Online April 2019. Impact Factor: 5.553 • Development of simultaneous spectrophotometric method for quantification of resveratrol and folic acid in an orogel, International Journal of Pharmaceutical Sciences and Research, 2019; Vol. 10(4): 1000-05. • Synergistic effect of nigella oil and clotrimazole as ethosomal gel for improved treatment of fungal infections, Indian Drugs, 56 (04) April 2019 • M. Momin , S. Lalka , S. Mhatre and S. Mistry, Formulation development and in-vitro characterization of fast dissolving polymeric films of olanzapine for the management of panic attack of schizophrenia, Int Journal Pharm Sci Res, 2019; Vol. 10(4): 1005-10 • Targeting tumor microenvironment to curb chemoresistance via novel drug delivery strategies., Expert opinion on drug delivery 15 (7), 641-



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	<p>663, 2018. Impact factor: 5.4</p> <ul style="list-style-type: none"> Indian Patent No.201821030102:Microemulsion Based Nail Lacquer For Onychomycosis. Indian Patent No 201821034319: Ophthalmic Pharmaceutical Compositions comprising Omega 3 fatty acids.
Dr. Sujata Sawarkar	<ul style="list-style-type: none"> Indian Patent No : 201821027519 Fixed Dosed Sustained Release Composition comprising Ferrous Ascorbate and Folic Acid Indian PatentNo: 201821027518 Modified Release Drug Delivery System Indian Patent No 201821031701 : Herbal in-situ gel implant comprising thyme oil, Indian Patent No 20182104737:In-situ ophthalmic gel compositions comprising Anti-viral drugs and anti-inflammatory or antiallergic drugs Indian Patent No.201821047337In-situ ophthalmic gel compositions comprising Anti-viral drugs and anti-inflammatory, antiallergic drugs Indian Patent No 201921008083, Vaginal drug delivery system comprising nano-carrier gel. Potential of low molecular weight natural polysaccharides for colon targeted formulation and its evaluation in human by Gamma Scintigraphy, Journal of Pharmaceutical Investigation, accepted on 29th April 2019, Open Access Journal of Springer NatureISSN:2093-5552.
Mrs. Padmini Ravikumar	<ul style="list-style-type: none"> Indian Patent application: A topical pharmaceutical composition comprising resveratrol and uses thereof ” An overview of herbal alternatives in androgenetic alopecia, Journal of Cosmetic Dermatology 2019, 00:1-10, https://doi.org/10.1111/jocd.12930. IF 1.5 Design of an encapsulated topical formulation for Chemoprevention of skin cancer, IJPSR, 2019; Vol. 10(1): 309-319.
Dr. Prabha Singh	<ul style="list-style-type: none"> Formulation and in-vivo Evaluation of Novel Topical Gel of Lopinavir for Targeting HIV,Current HIV Reasearch, IF: 1.562, http://www.eurekaselect.com/165577 Nanoparticles: Therapeutic Benefits for Diabetes Mellitus by Oral Delivery, Int.J. Pharm.Sci.Rev. Res. Rev. Res., 55(2), 2019, 16, 91-99.



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Dr. Pramila Chaubey	<ul style="list-style-type: none"> • Bone health and natural products- An insight. Front. Pharmacol. 2018;9:981. Doi: 10.3389/fphar.2018.00981. Impact factor: 3.831 • Book Chapter in Elsevier's Book "Polyphenols: Prevention and Treatment of Human Disease (Second Edition)". Chapter 10 – An Insight of Polyphenols in Lung Cancer Chemoprevention. 2018, Pages 125-136. https://doi.org/10.1016/B978-0-12-813008-7.00010-2. • Book chapter entitled (2019) 'Nutritional management of diabetes- a critical review' in Watson, R.R. (ed.) Bioactive food as dietary interventions for diabetes (Second Edition). London: Academic press, pp. 289-308.
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❖ Presentations

➤ InnoPharm Goa on 22nd October 2018

Dr. Munira Momin	Novel formulation approach for effective wound healing
Dr. Sujata Sawarkar	Formulation And Evaluation of Modified Release Tablet-A Triple Layer Tablet for Treatment of <i>Helicobacter Pylori</i> Induced Peptic Ulcer Formulation and Development of Combinational Novel Topical Drug Delivery System for the Management of Rheumatoid Arthritis Design And Development Of Novel Dosage Form For Malnutrition Management
Mrs. Padmini Ravikumar	Design and development of novel oral formulations for treatment of mouth ulcers Novel anti-inflammatory topical nanosphere gel Development and characterization of novel formulation for scalp care
Dr. Pramod Kadu	Novel bilayered tablet of Rosuvastatin Calcium and Aspirin for the treatment of hyperlipidaemia

➤ Avishkar December 2018

Dr. Munira Momin	Formulation and Characterization of Bioadhesive pellets for management of Inflammatory Bowel diseases
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Dr. Sujata Sawarkar	Design and Development of drug delivery for Malnutrition Management
	Formulation and Evaluation of carrier based drug delivery system
	Design and formulation development of novel ophthalmic drug delivery System
	Design and Development of Orally Disintegrating Tablets
Mrs. Padmini Ravikumar	Innovative topical formulations: A strategy in combating hyperpigmentation
	Ultradeformable liposomes: A novel chemopreventive formulation
	Novel oral formulation for the management of epilepsy
Dr. Prabha Singh	Development and Evaluation of Novel Anti-Inflammatory Formulation for the treatment of Rheumatoid arthritis (RA)
	Formulation and Assessment of Novel Topical Delivery system for HIV management
Dr. Meenal Rane	Development of herbal lip and face balm
Dr. Pramod Kadu	Novel approach for solubility enhancement of BCS Class II drug
	Design and development of novel drug delivery system

Innovative topical formulations: A strategy in combating hyperpigmentation Guided by Mrs. Padmini Ravikumar received the GOLD MEDAL at State Level.

➤ **Research Paper presentations at 17th International Symposium of CRS IC February 2019:**

Dr. Munira Momin	A Comparative Study For Management Of Rheumatoid Arthritis
Dr. Sujata Sawarkar	Design And Development Of Novel Drug Delivery For Management Of Periodontitis
Mrs. Padmini Ravikumar	Innovative Arbutin And Kojic Acid Delivery Systems To Combat Hyperpigmentation.
	Resveratrol Loaded Lipidic Topical Formulation For Chemoprevention Of Melanoma



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❖ INVITED AS RESOURCE PERSONS / TALKS

- **Dr. Sujata** was invited as resource person and she delivered guest lecture on **Novel Advances in Transdermal Drug Delivery System** at Institute of Chemical Technology on **27th April 2019**.
- **Mrs. Padmini Ravikumar** was invited as resource person and she delivered guest lecture on **Validation concepts** at H.K. College of Pharmacy on **7th March 2019**.
- **Dr. Meenal Rane** was invited as resource person and she delivered guest lecture on **Mucoadhesive drug delivery systems** at Institute of Chemical Technology on **27th March 2019**.
- **Dr. Sujata Sawarkar** chaired scientific session at 17^h International Symposium on Advances In Technology and Business Potential of New Drug Delivery Systems, 1st - 2nd February 2019.
- Dr. Sujata Sawarkar was invited as Distinguished Speaker and panellist for **5th ANNUAL SYMPOSIUM** Theme: **“Pharmacovigilance in India – Navigating the transforming landscape”** organized by Indian Society of Clinical research. The title of the talk was **Perspectives on Pharmacovigilance Awareness & Challenges in India on 28th September 2018**.
- Dr. Munira Momin Invited as resource person and speaker at Ramanbhai Patel College of Pharmacy Ahmedabad

❖ RESEARCH PROJECTS

No.	Project Title	Sponsoring Agency	Investigators	Grant Amount (INR)	Status
1	Formulation Development of Oral and Topical Dosage Forms	Ardmore Therapeutics	Sujata S Munira M	15,00,000	ongoing



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2	Foams and Hydrogel Sponges for Chronic Wounds of Burns and diabetes	Rajiv Gandhi Science and Technology Commission	Padmini RK Munira M	16,62,000	ongoing
3	Formulation Development and Evaluation of Novel Gel for Vaginal Drug Delivery for Prevention of HIV Transmission and Contraception	Rajiv Gandhi Science and Technology Commission	Sujata S Munira M	14,20,00	ongoing
4	Development and evaluation of a phytoconstituent containing solid lipid nanoparticles based topical formulation for treatment of skin cancer	Abbott Health Care	Padmini RK	5,50,000	ongoing
5	Development of Topical Dosage Forms	Abbott Health Care	Padmini RK	82,000	Ongoing
6	Development of Nanoemulgel for Arthritic inflammation & Pain based on ethnomedicinal plant of western India	Rajiv Gandhi Science and Technology Commission	Munira M Tabassum K	17,42,000	Ongoing
7	Cell Line Study on Vitamin K27 & Silver nanoparticles	Viridis , Synergia Life Science	Munira M	6,60,000	Ongoing
8	Oral antiepileptic formulation for Paediatrics"	University of Mumbai	Meenal R	50,000	Completed
9	Formulation Development, Optimization and In-vivo Hepatoprotective Studies	University of Mumbai	Pramila C	45,000	Completed



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	of Silymarin Nanoparticles Prepared by Solvent Displacement Method				
10	Synthesis development and efficacy studies of chlorotoxin functionalized hollow gold nanoparticles for therapy of glioblastoma	DST SERB	Munira M	22,40,000	Ongoing
11	Comparative evaluation of eye drops	Cipla	Amrita B Sujata S	1,50,000	completed
12	Nanofibers based scaffold for wound healing	AICTE-RPS	Munira M.	13 lakhs	Sanctioned
13	Overview of QbD and PAT, the quintessential elements of Product Life Cycle Management	AICTE-GOC	Sujata S.	5.07 lakhs	Sanctioned
14	Evaluation and Stability Study of Cosmetic Products	SKINN RITUALS	Sujata S Prabha S.	50,150	Ongoing
15	Nano carrier based Colorectal drug targeting	ACG	Sujata S.	25,000	Ongoing

❖ **NEW ADDITIONS**

❖ **GOVERNMENT GRANTS**

No	Project Title	Sponsoring Agency	Investigators	Grant Amount (INR)	Status
1	Modernization of Cell Culture and Pharmacology Lab	AICTE MODROBS	Sujata S.	Approx 20,00,000	Under review



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❖ INDUSTRY GRANTS

No	Project Title	Sponsoring Agency	Investigators	Grant Amount (INR)	Status
1	Development and Evaluation of a containing topical lipidic formulation for treatment of skin cancer	Abbott	Padmini RK	5,33,500	Sanctioned
2	Formulation Development and Evaluation of Sustained Ocular Delivery of Antiretroviral to cater unmet therapeutic needs	EFFORT Grant, Electrolab Mumbai	Sujata S.	7,06,000	Sanctioned

❖ Industry Connect

- Dr. Sujata Sawarkar was actively involved in Conceptualizing, Initiating MOU with IQGenX, Macleods and Brassica and organizing meeting for collaborations.

❖ QIP/FDP/Training program//seminar/workshop

- **Dr. Munira Momin, Dr. Sujata Sawarkar**, attended 3 days FDP organized University of Mumbai and RUSA on NAAC Accreditation and IQAC on 22nd- 24th October 2018.
- **Dr. Prabha Singh**, attended one week ISTE approved FDP entitled new paradigm in Pharmaceutical Education & research from 26th November 2018 to 1st December 2018 organized by H K College of Pharmacy.
- **Dr. Meenal Rane**, attending Hands on Training Workshop in Human Cell Culture Technology and its application in Cancer Research from 12th November 2018- 6th December 2018. The workshop has been organized by University of Mysore & DST (Kiran Division).

- ❖ **Designing of new syllabus and Liasoning with International Institute Kingston University UK :** Dr. Sujata Sawarkar actively involved in syllabus design of MSc. Pharmaceutical Sciences with Management and specialization in DRA, PV and CDM and coordination.



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❖ Google scholar citations

Faculty	Google scholar citations	h-index	i10-index
Dr. Munira Momin	421	11	15
Dr. Sujata Sawarkar	30	4	0
Mrs. Padmini Ravikumar	93	3	1
Dr. Prabha Singh	-		
Dr. Pramila Chaubey	167	6	6
Dr. Pramod Kadu	15	3	0
Dr. Meenal Rane	-		
Mrs. Prachi Pimple	-		

Faculty appraisal

Faculty	Total API	Appraisal date
Dr. Munira Momin		
Dr. Sujata Sawarkar	283.25	10 th May 2019
Mrs. Padmini Ravikumar	234.5	10 th May 2019
Dr. Prabha Singh	207	10 th May 2019
Dr. Pramod Kadu	147.1	10 th May 2019
Dr. Meenal Rane	150.4	10 th May 2019
Dr. Pramila Chaubey	143.33	10 th May 2019
Dr. Prachi Pimple	71	10 th May 2019

Prepared by:

Dr. Sujata P. Sawarkar
May 15th, 2019