

THE IPA-MSB'S BOMBAY COLLEGE OF PHARMACY- AUTONOMOUS

CREDENCE

21st edition- 2026



Powering education...Towering Knowledge



Maharashtra State Branch



The Governing Body of The Indian Pharmaceutical Association - Maharashtra State Branch's
Bombay College of Pharmacy - Autonomous
request the pleasure of your company at the



68th Annual Day Celebration

to be held on Vikram Samvat 2082, Phalguna Shukla Paksha Ekadashi,
Friday, February 27th, 2026 at 5.30 pm.
at the Bombay College of Pharmacy - Autonomous,
CST Road, Kalina, Santacruz (E), Mumbai 400 098.

Chief Guest

Mr. Manish Doshi

Managing Director, UMEDICA Laboratories Pvt. Ltd.

Keynote Speaker

Dr. Milind Joshi

Former President - Global Regulatory Management
JB Chemicals & Pharmaceuticals Ltd.

Guest of Honor

Mr. Vasant Maruti Dundagekar

Assistant Divisional
Fire Officer

Mr. Ashish Babtiwale

Managing Director
Navigo Analytix LLP

Presided By

Dr. N. Sivaprasad

President - The Indian Pharmaceutical Association - Maharashtra State Branch
will grace the occasion

Dr. Ujwala Shinde

Principal In-Charge

Mr. Nitin Maniar

Chairman-Governing Body

Mr. Pranav Padvekar

General Secretary, Students' Council

Dr. Alka Mukne

Students' In-Charge

Programme overleaf

Programme

- Lighting of the Lamp
- Felicitation of Guests
- Welcome address and presentation of Annual Report by the Principal In-Charge
- Report on students' activities by the General Secretary, Students' Council
- Release of College Magazine-Credence
- Address by the Chairman, Governing Body, Bombay College of Pharmacy
- Address by the President, The Indian Pharmaceutical Association - Maharashtra State Branch
- Address by the Guests of Honor
- Address by the Keynote Speaker
- Address by the Chief Guest
- Prize Distribution
- Vote of Thanks
- Cultural program & Dinner

RSVP on WhatsApp No. 98198 74227 (Ms. Anitha Lalwani)

EDITOR'S NOTE



As the Editorial Head of Credence '26, I am proud to present an edition that reflects the strength, character, and vision of our college community. Credence has always been more than an annual publication — it is a mirror of our institution's journey, capturing its academic rigor, vibrant student life, & unwavering commitment to excellence.

Every article, achievement, and creative contribution featured in this issue represents the collective spirit of our campus. From research milestones and professional growth to artistic expression and leadership initiatives, this magazine showcases the many dimensions that make our college distinctive.

At its core, our institution stands for discipline, innovation, and service — values that are evident in the dedication of our students and faculty. This edition seeks to document that dedication and preserve the efforts that often go unnoticed but are deeply impactful.



May this edition of Credence serve as a reminder of how far we have come — and how much further we are capable of going.

Happy Reading!

Siddhi Desai and **Shrutika Jadhao**

Editor-in-chief

TEAM CREDESCENCE



Team Editorial - Siddhi Desai, Shrutika Jadhao, Atharva Zore, Samreen Shaikh, Hetvi Vyas, Sakshi Chandugade

Team Technical - Kalyani Chavan

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MESSAGE FROM PRESIDENT, IPA-MSB



Dear Readers,

I am glad to write few words as message on behalf of The Indian Pharmaceutical Association - Maharashtra State Branch (The IPA MSB) for the publication by the students of The IPA MSB's Bombay College of Pharmacy, CREDENCE 2025-2026. Glad to know that CREDENCE is designed and published by the Students' Council of the College during the College Annual Day Celebration.

I am delighted to mention that The Bombay College of Pharmacy (BCP) is one of the well recognized pharmacy education institutes in India. The excellent performance of students in academic and extracurricular activities is a testimony to this recognition. We, at the IPA MSB, feel proud to mention that the BCP is managed by The IPA MSB. In fact through BCP, the IPA-MSB is able to fulfill one of its key mandates of developing skilled and knowledgeable pharmacy professionals to serve the society. The students graduating from this college not only acquire the necessary skills, but also create the mind set & sense of service that equips them to contribute to healthcare industry and systems. Thus, BCP has been immensely contributing in making available to industry and healthcare system of the nation, the much needed skilled pharmacists. I appreciate the students of this College as they have been actively participating under the guidance of the able faculty, in a number of industry-linked research projects which enable them to meet the challenges of pharmacy world. In this regard, it is not out of place to mention that the BCP established research activities in deuterated drugs and in the process of establishing 3D Printing lab for development of applications in pharmaceutical science.

The IPA-MSB is thankful to the Principal, faculty & staff, the Chairman & management of the College for their sincere efforts to ensure quality Education and Research in this College. Let us all give our best and make this BCP a modern temple of learning through our devotion and dedication.

The College magazine CREDENCE 2025-2026 is designed and published by the students and it reflects the ethos, inspiration and enthusiasm of our students. I wish the Annual Day a grand success and congratulate the Editorial team of CREDENCE 2025-2026.

Wishing the students all the best in all their endeavours...!

Dr. N Sivaprasad

President,

The Indian Pharmaceutical Association- Maharashtra State Branch (IPA-MSB)

MESSAGE FROM CHAIRMAN - GOVERNING BODY



Dear Friends,

I convey my warmest greetings and best wishes on the occasion of the 68th Annual Day of The Indian Pharmaceutical Association–Maharashtra State Branch’s Bombay College of Pharmacy (Autonomous) to Team Credence, our Teaching and Non-Teaching Staff, and dear Students.

At Bombay College of Pharmacy, we are embracing the digital revolution in healthcare. Through initiatives such as the Academy of Digital Health Sciences, we are offering cutting-edge course that empower pharmacists and other healthcare professionals to thrive in a truly digital-first world.

The Professional Development Program introduced at BCP for selected-year students covers critical domains such as digital health ecosystems, telemedicine, and artificial intelligence in healthcare. With eminent faculty like Dr. Rajendra Pratap Gupta and international experts from institutions such as Harvard and Stanford, we are equipping future professionals with the skills required to drive meaningful transformation in healthcare.

I am delighted to see our students and alumni leading the way and making significant contributions across diverse domain

Likewise, the 3D GEM 2026 Conference at IIT Bombay, focusing on the democratization of 3D technology, strongly aligns with our vision of advancing healthcare education, innovation, and research. We are proud to see such initiatives creating tangible benefits for the wider community.

BCP continues to make significant strides in innovation and experiential learning. With our pilot plant and the upcoming 3D printing laboratory, we are effectively bridging the gap between theory and practice. These initiatives will enable clinicians and researchers to develop customized dosage forms and advance truly patient-centric care.

Kudos to the entire team for their dedication and commitment!

We express our profound gratitude to IPA, our Founders, Contributors, Teaching and Non-Teaching Staff, Alumni, Professionals, and Colleagues at IPA–MSB for their wholehearted support and cooperation. It is because of these collective efforts that BCP has attained the status of a premier pharmacy institute in the country.

With warm regards,

Nitin N. Maniar

Chairman, Governing Body, The IPA–MSB’s BCP (Autonomous) & Honorary Secretary, The IPA–MSB
chairman@bcp.edu.in, 9594032520

22nd February 2026

MESSAGE FROM PRESIDENT BCP - ALUMNI ASSOCIATION



Dear Students , Faculty and Parents,

It gives me immense pride, as President of the BCP Alumni Association along with our managing committee, to extend my heartfelt congratulations to all our academic toppers, research contributors, cultural champions, sports achievers, and student leaders featured in this years Credence magazine. Your accomplishments reflect not only personal dedication but also the vibrant spirit of excellence that defines Bombay College of Pharmacy.

Equally deserving of appreciation is our committed faculty. The sustained efforts of our professors — in teaching, mentoring, guiding research projects, preparing students for

competitions, and supporting extracurricular initiatives — often go beyond the classroom. Their dedication ensures that BCP continues to uphold high academic standards while nurturing well-rounded professionals. As alumni, we deeply value the intellectual rigor and ethical grounding instilled by our teachers, which remain our strongest professional assets.

The B.Pharm & M.Pharm curriculum at BCP offers a powerful scientific foundation — from pharmaceuticals and pharmacology to pharmaceutical chemistry, quality assurance, and regulatory sciences. More importantly, it trains you in structured thinking, documentation discipline, compliance awareness, and analytical problem-solving. These competencies remain highly relevant in today's global pharmaceutical environment.

However, the industry is evolving rapidly. Artificial Intelligence, data analytics, continuous manufacturing, advanced and specialised drug delivery systems, and biologics are shaping the future of healthcare. While the core curriculum builds your fundamentals, students must now actively complement it with digital literacy, awareness of AI applications in pharma, and cross-functional understanding of global regulatory landscapes. The goal is not to become programmers, but to become pharmacy professionals who can intelligently use technology to enhance decision-making through data analysis at a faster pace.

Entrepreneurship too presents exciting possibilities. India's pharmaceutical sector continues to grow globally, offering opportunities in niche generics, regulatory consulting, formulation innovation, nutraceuticals, and digital health platforms. At the same time, entrepreneurship in pharma requires regulatory clarity, financial prudence, and strategic planning. The Alumni Association remains committed to strengthening mentorship networks, facilitating industry exposure, and creating platforms where students can interact with alumni entrepreneurs and subject matter experts & leaders. Our alumni are spread globally in leadership roles in various branches of the industry and community pharmacy. Some of them have taken up leadership roles in pharma ancillary industries, and these alumni are happy to help the college in many ways.

We recognize that alongside aspiration, students also think about placements, career growth, and industry readiness. Bridging the gap between academic learning and professional expectations is a shared responsibility — of faculty, alumni, and students alike. Through collaboration, mentorship, doñations and proactive engagement, we have been collectively building stronger pathways for your success.

As you celebrate achievements today, remember that you are part of a distinguished legacy. The future of pharmacy will belong to professionals who combine scientific depth, technological adaptability, ethical integrity, and global perspective.

We, the alumni of Bombay College of Pharmacy stand beside you — proud of your accomplishments and confident in your potential. We request all alumni and current students to be a part of this Association and walk together on this splendid journey. With warm congratulations and best wishes,

Dr Amita Karnik

President

BCP Alumni Association

MESSAGE FROM PRINCIPAL



It gives me immense pride and gratitude to reflect upon an extraordinary year of achievement, growth, and transformation at Bombay College of Pharmacy which has been a testament to our collective commitment to excellence in education, research, innovation, and societal engagement. Each milestone we have achieved reinforces our position as a benchmark institution in pharmaceutical education.

Our academic vibrancy was proudly recognized when we secured the Certificate of Merit – Overall Championship at the 19th Avishkar

Inter-Collegiate Research Convention conducted by the University of Mumbai, highlighting our vibrant research culture. Academic enrichment was further strengthened through digital health certification programs, industry-oriented training, and value-based initiatives that prepare our students as competent and responsible professionals.

Research remains our cornerstone, with significant extramural funding, sponsored projects, patents, and impactful publications. Faculty recognitions and the modernization of advanced research facilities endorse our commitment to global standards.

Innovation and entrepreneurship have gained remarkable momentum. From the start-up initiative Tailor Dose, advancing personalized nutraceuticals through 3D printing technology, to the successful commercialization of a nano silver-based veterinary wound-care product in collaboration with Saifee Vetmed Pvt. Ltd., our institution continues to translate academic knowledge into meaningful healthcare solutions. These achievements symbolize our evolving start-up ecosystem and strong academia–industry partnerships.

Our students continue to excel in research conventions, competitive examinations, fellowships, and placements. Community engagement initiatives like NSS and DLLE have further nurtured socially responsible healthcare professionals.

The year was also marked by infrastructural expansion, digital integration in classrooms, strengthening of analytical and preclinical facilities, and the Golden Jubilee Graduation Celebration of the batch 1977 & 1978 that reaffirmed the enduring bond between the institution and its illustrious alumni. The generous philanthropic commitments by our alumni, Dr. Umesh Shukla and Dr. Nandini Krishnamurthi exemplify their deep trust in the institution's vision for the future.

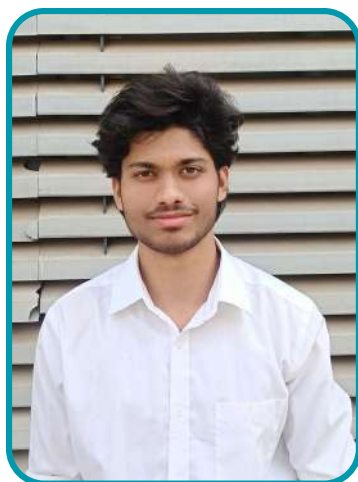
As we move forward, our focus remains steadfast – to transition from excellence to global leadership.

Dr. Ujwala Shinde

Principal

Bombay College of Pharmacy

GS's NOTE



Dear Readers,

It gives me immense pleasure to address you through the 68th edition of Credence magazine and reflect upon the remarkable journey of the Students' Council this year. Serving as the General Secretary has been both an honour and a responsibility, and I take great pride in sharing the accomplishments we have collectively achieved.

This year, our council successfully organized and conducted several significant events that added vibrancy, enthusiasm, and a strong sense of unity to campus life. Garba Night was celebrated with

immense energy and participation, fostering cultural expression and strengthening bonds among students. The celebration of Pharmacy Day served as a reminder of our professional identity and responsibility towards healthcare, highlighting the vital role pharmacists play in society.

Our annual fest, ResoVerse, stood as the flagship event of the year. Through meticulous planning, coordination, and teamwork, ResoVerse turned into a grand success, providing students with a dynamic platform to showcase their talents across technical, cultural, sports, and creative domains. The passion, discipline, and dedication displayed by participants and organizers truly reflected the spirit of our institution

The success of these events goes beyond numbers and attendance; it lies in the growth, confidence, and sense of belonging they instilled among students. Each initiative became an opportunity to step beyond academics, develop leadership qualities, enhance interpersonal skills, and create lifelong memories.

I extend my heartfelt gratitude to our respected Principal, faculty members, non-teaching staff, and every student who contributed directly or indirectly to the smooth execution of these programs. Your constant support, guidance, and encouragement have been instrumental in making all our initiatives successful.

As we move forward, I hope we continue to uphold the values of unity, professionalism, and excellence, striving together to make our institution stronger with every passing year.

Wishing everyone continued success and good health.

Warm regards,

Pranav Padvekar

General Secretary

Students' Council 2025-2026

GOVERNING BODY OF BOMBAY COLLEGE OF PHARMACY



Mr. Nitin N. Maniar
Chairman



Dr. Pramod Naik
Jt. Director DTE -Member



Dr. Supriya Shidhaye
VC nominee
Member



Dr. N. Sivaprasad
Member



Dr. Hemant Mondkar
Member



Dr. Anand Shedge
Member



Dr. Satish Shah
Member



Dr. Krishnapriya Mohanraj
Member



Dr. Harita Desai
Member



Dr. Ujwala Shinde
Principal/Member
secretary

FINANCE COMMITTEE OF BOMBAY COLLEGE OF PHARMACY



Dr. Ujwala Shinde
Principal/Member
secretary



Dr. Satish Shah
Member



Mr. Nitin N. Maniar
Chairman



Dr. N. Sivaprasad
Member



Abhay Arolkar

COMPOSITION OF ACADEMIC COUNCIL
(Revised w.e.f 24.06.2025)

Sr. No.	Category	Member	Affiliation
1	Principal/Chairperson	Dr. Ujwala Shinde	Bombay College of Pharmacy
2	HOD (Pharmaceutical Chemistry)	Dr. Premlata Ambre	
	HOD (Pharmaceutical Analysis)	Dr. Vaishali A Shirsat	
	Associate Professor of Pharmaceutics	Dr. Clara Fernandes	
	HOD (Pharmacognosy)	Dr. Alka Mukne	
	HOD (Pharmacology)	Dr. Anuradha Majumdar	
3	Five teachers from the college representing different categories of teaching staff by rotation on the basis of seniority of service in the college	Dr. Archana Naik	Bombay College of Pharmacy
		Dr. Harita Desai	
		Dr. Shubhangi Aher	
		Dr. Mangal Nagarsenker	
		Dr. Mala Menon	
4	Four experts/academicians from outside the college representing such areas as Industry, Commerce, Law, Education, Medicine, Engineering, Sciences etc., to be nominated by the Governing Body.	Dr. Sampada P Patvardhan	Consultant-Medical Writing & Healthcare Services, 1302/ Pristine, Vasant Lawns, Pokhran Road-2, Voltas Compound, Thane (West)-400601, Mob: 9820662080, Email: spatvardhan@gmail.com
		Dr. Rajiv Desai (Lupin)	Executive Vice President, Corporate Quality, Lupin Limited, Kalpataru Inspire, 6 th Floor, Off Western Express Highway, Santacruz (East), Mumbai-400055, Mob: 8980803550/022-66402502 Email: rajivdesai@lupin.com
		Dr. S.K. Kulkarni	Emeritus Professor of Pharmacology & Former Pro-Vice Chancellor (DUI) (PU), 404, Queens Court, Apartment, Vaccine Depot Road, Tilak Wadi Belgaum -590006, Karnataka, Mob: 9886203247, Email: skkulkarni46@gmail.com
		Dr. Eswaran Iyer (Law IPR)	IP Consultant A/001, Shiv Sudama Nandan, Plot RM 89, MIDC, Milap Nagar, Dombivili (East), Thane, Dist-421203, Mob: 9820395353, Email: eswaraniyer@gmail.com
5	Three nominees of the university	Prof. Shreerang Joshi	Professor of Pharmaceutical Sciences and Head, Department of Pharmaceutical Technology, Institute of Chemical Technology, Nathalal Parekh Marg, Near Khalsa College, Matunga, Mumbai-400019. Mob: 9820600226 Email: sv.joshi@ictmumbai.edu.in, shreerangvjoshi@rediffmail.com
		Prof. Rajendra Shinde	Principal, St. Xaviers College (Autonomous), 5, Mahapalika Marg, Fort, Mumbai-400001. Mob: 9819100131 Email: rajendra.shinde@xaviers.edu
		Prof. Sudha Rathod	Principal, Oriental College of Pharmacy Plot No: 3,4,5, Sector-2, Sanpada (W), Navi Mumbai Mob: 9769000309 Email: principal@ocp.edu.in
6	Member Secretary	Dr. Krishnapriya Mohanraj	Bombay College of Pharmacy

Term: The term of the nominated members shall be for three academic years 2022-2023 to 2024-2025 and has been extended for A.Y. 2025-2026.

Meetings: Academic Council shall meet at least twice a year

Composition of Board of Studies for Postgraduate Program (PG-BoS)

(w.e.f 24.06.2025)

A.Y 2022-2023 to 2025-2026

Sr. No.	Category	Details of Members
1	Principal and Chairman (BOS)	Dr. Ujwala Shinde
	Head of the Department	Dr. Vaishali A Shirsat (Member Secretary)
		Dr. Anuradha Majumdar
		Dr. Alka Mukne
		Dr. Premlata K. Ambre
	Prof. Krishna Iyer	
2	Outside the parent University Recommended by the Academic Council	Prof. S. Y. Gabhe, Professor of Pharmaceutical Chemistry, C-1/10, Shivtara Garden Society, D. P. Road, Near Gananjay Society, Kothrud, Pune-411038 Mob: 9766592664 Email: sy52gabhe@gmail.com
		Prof. Vandana Patravale, Professor of Pharmaceutics, Institute of Chemical Technology, Nathalal Parekh Marg, Near Khalsa College, Matunga, Mumbai-400019, Mob: 9820029314 Email: vb.patravale@ictmumbai.edu.in
3	One Recommended by Vice-chancellor from a panel of Six by the college principal	Dr. S. D. Sawant Principal and Professor of Pharmaceutical Chemistry, Smt. Kashibai Navale College of Pharmacy, Kondhwa Campus, Kondhwa, Pune Mob: 9850067999 Email: principal.skncop@sinhgad.edu drsdsawant69@gmail.com
4	One representative from Industry	Mr. Prateek Agarwal, Assistant Vice President, Macleods Pharmaceuticals Ltd., Mumbai prateeka@macleodspharma.com
5	One postgraduate meritorious alumnus appointed by the college Principal	Dr. Parizad Elchidana, Principal Technical Consultant, ACG, Dalamal House, 10 th floor, Nariman Point, Mumbai-400021, Mob: 9769466586/022-50961434 Email: parizad.elchidana@acg-world.com

Term: The term of the nominated members shall be for three academic years **2022-2023 to 2024-2025** and has been extended for **A.Y. 2025-2026**.

Meetings: Board of Studies shall meet at least twice a year

**Composition of Board of Studies for Undergraduate B. Pharm Program (UG-BoS)
(w.e.f 24/06/2025)
A.Y 2022-2023 to 2025-2026**
























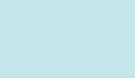
Sr. No.	Category	Details of Members
1	Principal and Chairman-Board of Studies (BoS)	Dr. Ujwala Shinde
	Head of Department	Dr. Premlata Ambre (Member Secretary)
		Dr. Vaishali A Shirsat
		Dr. Anuradha Majumdar
		Dr. Alka Mukne
	Prof. Krishna Iyer	
2	Outside the parent University recommended by the Academic Council	Dr. Pratima Tatke, Principal & Professor, CU Shah College of Pharmacy, SNDT Women's University, Juhu Tara Road, Juhu Campus, Santacruz (West), Mumbai,-400049 Mob: 9869430228/9920685857 Email: pratima.tatke@cushahpharmacy.sndt.ac.in
		Dr. Sadhana Sathaye, Professor of Pharmacology, Institute of Chemical Technology, Nathalal Parekh Marg, Near Khalsa College, Matunga, Mumbai-400019. Mob: 9821272821 Email: ss.sathaye@ictmumbai.edu.in
3	One recommended by Vice-chancellor from a panel of Six by the college principal	Prof. Dr. Tejal Mehta Professor and Head, Department of Pharmaceutics, Nirma University, Gujarat Mob: 9879357584 Email: tejal.shah@nirmauni.ac.in
4	One representative from Industry	Mr. Ashish Babtiwale, Managing Director, Navigo Analytix India, 503, Malvika Tower, D. N. Nagar, Andheri (W), Mumbai-400053 Mob: 9867557858 Email: ashish.b@navigoanalytix.com
5	One postgraduate meritorious alumnus by Principal	Dr. Ratnakar Mehendre Technical Director-Gelnova Laboratories (I) Pvt. Ltd. Door No. C 125, T. T. C Industrial Area, Pawane, Village Pawne, Mahape, Navi Mumbai - 400701 Mob: 9820304839 Email: mehendre@yahoo.com

Term: The term of the nominated members shall be for three academic years **2022-2023 to 2024-2025** and has been extended for **A.Y. 2025-2026**.

Meetings: Board of Studies shall meet at least twice a year.

Members of Internal Quality Assurance Cell (IQAC)

A.Y. 2025-2026

Sr. No.	Members	Designation in IQAC		
1	Prof. Ujwala Shinde I/C Principal	Chairperson		
2	Dr. Vaishali Shirsat HoD & Associate Professor Department of Pharmaceutical Analysis	IQAC Coordinator		
3	Dr. N. Sivaprasad President-The IPA MSB	Management member		
4	Prof. Krishnapriya Mohanraj Department of Pharmaceutical Analysis	Teacher		
5	Dr. Anuradha Majumdar HoD & Associate Professor Department of Pharmacology	Teacher		
6	Dr. Premlata Ambre HoD & Associate Professor Department of Pharmaceutical Chemistry	Teacher		
7	Dr. Alka Mukne HoD & Assistant Professor Department of Pharmacognosy	Teacher		
8	Prof. Mangal Nagarsenker Department of Pharmaceutics	Teacher		
9	Prof. Mala Menon Department of Pharmaceutics	Teacher		
10	Dr. Anagha Raut Associate Professor in Pharmaceutical Analysis	Teacher		
11	Dr. Harita Desai Assistant Professor in Pharmaceutics	Teacher		
12	Ms. Khushboo Begwani Assistant Professor-Pharmaceutical Chemistry	Teacher		
13	Dr. Rachna Kaul	Controller of Examination		
14	Mr. Milan Jayantilal Gandhi	Parent		
15	Mr. Bhushan Akshikar Managing Director at GlaxoSmithKline Pharmaceuticals, India President, OPPI	Industry Representative		
16	Dr. Mandar Kodgule Chairman & CEO-IQGEN-X Pharma Pvt. Ltd.	Industry Representative		
17	Dr. Perizad Elchidana Principal Technical Consultant Pharma - ACG World	Industry Representative		
18	Dr. Agnivesh Shrivastava Senior Manager (Head) Formulation development in Research Development & Innovation Evonik Ltd.	Employer		
19	Dr. Amita Karnik- President, BCP Alumni Association Managing Director, Amicon RX Consultants	Alumni		
20	Dr. Ashish Bhabtiwale Director-Navigo Analytix, India	Alumni		
21	Mr. Vaibhav Bamboli Marketing Manager, Riddhi Pharma-Pharma Distributor	Alumni		
22	Mrs. Swati Pitkar Secretary-The IPA MSB	Senior Administrative Officer		
23	Mr. B.G. Kawade Retd. Office Superintendent	Senior Administrative Officer		
24	Ms. Shefali Tomer Senior Clerk	Senior Administrative Officer		
25	Mr. Rahul Lad North East Zone Chemists Educational and Welfare Trust's Samarpan Healthcare Centre	One nominee from local society		
26	Cheina Jadhav Ph. D-Third Year	Student		
27	Ms. Preeti Kothare M. Pharm-First Year	Student		
28	Ms. Roshni Irani Third Year B. Pharm	Student		



Divisions:



The Indian Pharmaceutical Association (IPA)

The Indian Pharmaceutical Association (IPA) is the premier professional association of pharmacists in India founded on 23rd December 1939, with a member base of over 10,000, spread across the length & breadth of the nation. IPA operates in India through 21 state branches & more than 46 local branches. The members represent various facets of pharmaceutical profession viz. industry, regulatory, community pharmacy, hospital pharmacy & education. IPA is also actively associated in managing several academic programmes. As member of the Drug Technical Advisory Board, India, IPA is actively involved in advising the government on matters of professional importance. IPA is affiliated to international pharma associations like FIP, FAPA, CPA, AAPS, AAIPS, IPSF & WHO, for carrying out various collaborative professional activities which include organizing training programmes for professionals from industry, academics, regulatory & practice, making representations to the authorities on matters of professional interest & working towards constantly upgrading the standards of professional services offered by the pharmacists.

Mission

Mission: The Indian Pharmaceutical Association (IPA) is the national professional body of pharmacists engaged in various facets of the profession of pharmacy. The IPA is committed to promote the highest professional and ethical standards of pharmacy, focus the image of pharmacists as competent healthcare professionals, sensitize the community, government and others on vital professional issues and support pharmaceutical education and sciences in all aspects

IPA Students' Forum (IPA-SF)

IPA Students' Forum (IPA-SF) is a national forum for pharmacy students under the IPA. It aims to bring all pharmacy students under one umbrella so that their energies can be synergized to make a difference. The forum enables them to become better future pharmacists while abiding with the highest ethical and professional standards. This catalyzes their overall development and facilitates development of their academic, leadership and professional skills for their benefit and in turn the profession and thus health of INDIA. Activities of IPA-Student Forum are guided by esteemed personalities of Pharmaceutical professionals from India and abroad.

The Indian Journal of Pharmaceutical Sciences

The Indian Journal of Pharmaceutical Sciences is the bimonthly scientific publication of the IPA. The journal publishes original research work in the areas of Pharmaceutical Sciences (Pharmaceutical Technology, Pharmaceutics, Biopharmaceutics, Pharmacokinetics, Pharmaceutical/ Medicinal Chemistry, Computational Chemistry and Molecular Drug Design, Pharmacognosy and Phytochemistry, Pharmacology, Pharmaceutical and bioanalysis, Pharmacy Practice, Clinical and Hospital Pharmacy, Cell Biology, Genomics and Proteomics, Pharmacogenomics, Bioinformatics and Biotechnology of Pharmaceutical Interest). IJPS is indexed by various abstracting agencies e.g. Chemical Abstracts, DOAJ, International Pharmaceuticals Abstracts, Journal Citation Reports, PubMed, Pubmed Central, SCOLAR, SCOPUS, SIIC databases & is available online (www.ijpsonline.com) Original research work is published in IJPS either as a Full Research Paper or as a Short Communication. Review Articles on current topics in Pharmaceutical Sciences are also considered for publication by the Journal.

Pharma Times

Pharma Times is the news magazine of the IPA. It is a scientific journal and in addition to featuring general articles of professional interest, it also publishes proceedings of the Central Executive Council of IPA, the Annual Report and Accounts of the Association, reports on branch activities, proceedings of IPA Convention, notifications of IPA and other information such as articles, advertisements, announcements etc. Pharma Times is indexed by the search engines - Scopus & Embase of the premier scientific publication house Elsevier.



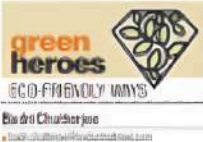


The formal announcement of the commissioning of the 50kw Solar Power-on-grid System at Bombay College of Pharmacy (BCP) campus was done at the programme on 28th May 2015, BCP's Foundation Day and concluding ceremony of the Centennial Birth Anniversary of Padmabhusan Late Shri Amrut Vitthal Das Mody (Founder Chairman of the Governing Body of the BCP).

Looking at the success ratio of the 50kv solar power-on-grid system at BCP additional 90kv system has been installed on 4th Feb 2017 totaling to 140kv. followed by installation of Net Metering for the optimal utilization of resources

Sun shines on Kalina college; ₹1.6L saved

WATT AN IDEA 453 solar panels, installed across a 13,500 sq ft terrace, generate 15,399 units of electricity every month



MUMBAI One of the largest rooftop solar power generation systems in Mumbai helps Bombay Pharmacy College in Kalina to power 70% of its electricity requirements from clean energy.

The college saves Rs 1.6 lakh every month in electricity bills by running the 140 kilowatt power system that has 453 solar panels installed across a 13,500 sq ft terrace area. The system generates an average 15,399 units of electricity per month and runs lights, fans, air-conditioners and lab across laboratories, seven classrooms, the college administration office around the museum. Over comparison, a two-bedroom flat in Mumbai uses 200-300 units of electricity per month.

Solar energy, apart from being renewable and free, does not cause pollution unlike power plants that emit coal, gas and oil. Solar energy can be used in remote areas where electricity

SOAKING UP THE SUN

WHAT IS SOLAR ENERGY? Solar energy is a free source of renewable energy.

WHY IS IT IMPORTANT? Generation of solar power down run costs can be less expensive than come from burning coal, gas and oil for generation of electricity.

Solar energy can be used in remote areas where electricity from the grid cannot be accessed.

Grids like cell phones, street lights and other low power consuming devices can be powered by solar power.

The potential to harness solar energy as a natural resource is infinite.

■ The 453 solar panels installed across a 13,500 sq ft terrace area.

HOW TO HARVEST RAINWATER

Rainwater can be harvested in several ways:

One way is to attach gutters to save rain the ground and recharge groundwater levels. In this process, water will have easier for a longer period in the city areas.

Rain water harvesting building (BWH) can be drilled and used for use in the dry season.

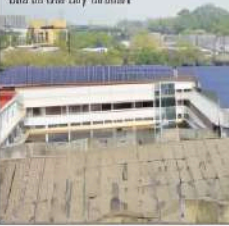


Students and staff stand near the medicinal garden located near the entry of the college.

KEEP IN MIND

Rain can be acidic, because it mixes with atmospheric gases, so it needs to be purged before it is used for drinking or cooking. Unprocessed rain water can be used for non-potable purposes like flushing toilets and watering gardens.

Around 500 million litres of water is wasted through leakages in tanks every day, according to the data provided by the BMC. Rainwater harvesting can help save this precious resource.



foundations in various sectors. Nitin Narainay Mahar, chairman, governing body, Bombay Pharmacy College and special executive officer for the state government, said, "We were in a large-scale setup because this energy source is

low cost, it is fully paid cost effective, and it saves an huge something back to the environment." Founded by the Indian Pharmacopoeia Association, Maharashtra State Government 1957, the college has over 600 undergraduate, postgraduate and PhD students.

Along with 60 teachers and staff members, the college is spread across 65,000 sq ft area with one quarter-acre acreage that has medicinal plants and a large ground area for environmental activities and events.

The solar project was completed in phases. In the first phase, a 50kw system cost of Rs 65 lakh in late 2015, and in the second phase in February this year, a 90kw unit was installed for Rs 55 lakh. "We expect to cover the entire 140

lakh by 2017. We have already received Rs 10 lakh in the form of subsidy (30% from the state government). We estimate annual savings of Rs 1.6 lakh from this project," he said.

Prior to the solar installation, the monthly electricity bill for the college was Rs 1.25 lakh that fell to Rs 1.05 lakh post installation. The campus also has a net-metering system, which allows surplus power generated through solar panels to be sent back to the grid and any deficiency is imported from the grid.

The college also has a rainwater harvesting system that collects water during the rains for use later. The college estimated that it has around 100 to 120 lakh litres of water through rainwater harvesting since 2010. The college campus also has departed certain civic body for its non-potable water consumption. The rooftop and common areas are used for rainwater. The water collected is channelled into a well with a capacity of 50,000 litres, and the water is used in the 45 washrooms on campus. "The water is also used in our gardens. Charanis have been doing up through the campus that allows water to drain into the well," said Mahar.

The Indian Pharmaceutical Association, Maharashtra State Branch (IPA-MSB)

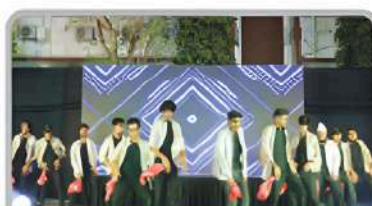
IPA-MSB is a state branch of the IPA initiated in 1941 immediately after the foundation of IPA in 1939. IPA-MSB runs an educational institute, Bombay College of Pharmacy (BCP), The Amrut Mody Research Fund (AMRF), The Research Society of Bombay College of Pharmacy (RSBCP), the Dr. M. K. Rangnekar Memorial Testing Laboratory (MKR), the Academy for Clinical Excellence (ACE), IPA-SF-MSB are other ventures which are governed by IPA-MSB. IPA-MSB is the only state branch of IPA, that has the distinction of getting the BEST BRANCH AWARD constituted by IPA four times i.e. 2004, 2005, 2011, 2012, 2016 and 2017. It has till date 1346 Life members and has active local branches at Pune, Nashik, Aurangabad, Solapur, Nagpur, Kolhapur, Amravati, Dhule, Palghar and Alephata

IPA-Student Forum-MSB (IPA-SF-MSB)

IPA-SF-MSB participates actively under the guidance of IPA-MSB in the organization and conducts the National Pharmacy Week celebrations every year. The Rx Festival, which is a cultural event, is also organized by the Student Forum every year, in which students from all the pharmacy Colleges in Mumbai, Navi Mumbai and Thane region and other parts of Maharashtra participate. The IPA-SF-MSB also publishes a magazine called 'Panache' which is greatly appreciated by the members, industry and academicians.

Some of the Activities (Symposia/Seminars/Lectures, etc.) conducted by IPA-MSB in recent past

- Two day Comprehensive Training Course of Lyophilization Technology
- Tobacco Free future Advocating
- NMR Instrument Demonstration
- Basics, and Software, Literature assisted NMR assignment and Interpretation
- Technical Workshop on Flow Chemistry Technology
- GL- Embarking on the Entrepreneurial Journey: Insights and Lessons for Success
- Workshop-3D Printing Technology: Future of Pharmaceutical Industry Workshop
- PCOD-a Menace Homeopathy-a Boon
- AI for Neuroscience
- Welcome to the world of LinkedIn by Aspire for Her
- ELSZnoo Zeta Potential & Particle Size analyser
- IPA Pharmacy week
- Challenges and Opportunities in the Life of Entrepreneurs in the Pharmaceuticals Sector
- Modern Approaches of Biological Agents
- National CGMP Day: Regulatory Perspectives Schedule M Updates
- Financial Literacy
- Universal Human Values: Happiness and Wellbeing for ALL
- Understanding harmony in the Human Being- exploring power of thought
- Understanding harmony in the Human Being- exploring power of thought
- Understanding harmony in the Human Being- exploring human consciousness
- PV Unplugged: Insights into patient safety, compliance costs, swiss system and career opportunities
- Innovation and Sustainable Entrepreneurship Workshop
- Under the Aegis of Dr. H. P Tipnis Memorial Lecture Series
- Chal pe Chercha- Highly mentoring session for students to pursue careers in management after pharmacy
- Lecture Series-2
- Radiopharmaceuticals Basics of positron emission tomography (PET Scan) bench to bed
- Eye Donation Awareness
- Medical Health Checkup Camp at BCP
- Interactive Session Panel Doctors Health camp
- Applications of D2 labelled compounds
- Annual Day -Every year
- Skill Development Workshop
- Understanding harmony in the Human Being- exploring human consciousness
- BCP- 28th
- Sustainable Dressings for Wound healing
- Building a career in pharma- Opportunities & Pathways
- FIP Train the Trainee on vaccination
- Understanding Harmony in Society and Power of Thoughts
- Understanding Harmony in Nature-
- Exploring the Self-Human Body
- Professional Ethics
- Research and Publication Ethics
- Financial Literacy
- Placement Talk 'Scientific writing: Foundations and Career Opportunities
- Safety Awareness Workshop
- One day Workshop on Basic Cell culture Techniques
- Commercialization of An Invention In India- Translational Nightmare or Scientific Short-sight
- Lecture Series-1 Radiopharmaceuticals
- Memorial Lecture Under the aegis of Late Dr. J. N. Banerjee & Late Dr. H. P. Tipnis Endowment
- Methodologies for Evaluating Talent Competion
- International Yoga Day



VISION



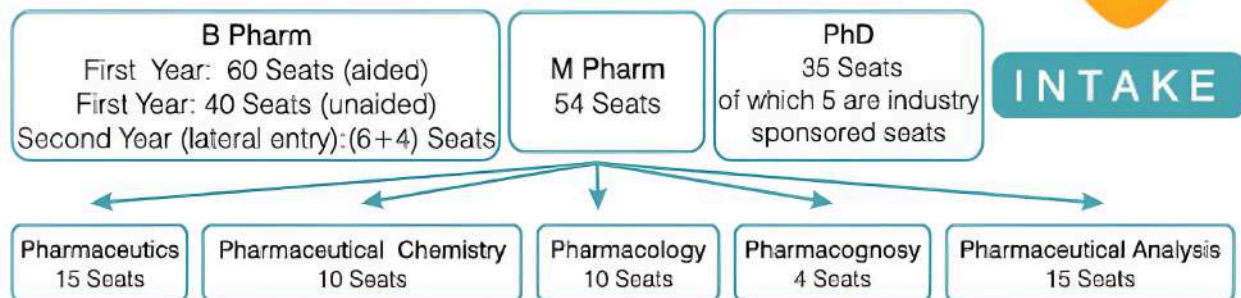
To Provide Excellence in Transformative and Interdisciplinary Pharmacy Education for Fostering Innovation and Research towards Advancement of Sustainable Global Healthcare.

MISSION



- To Provide Quality Education and Training in Pharmaceutical and Allied Sciences.
- To Engage in Collaborative Translational Research in Healthcare Sciences and Technology.
- To Commit towards Social Responsibilities through Outreach Programs, Inculcate Entrepreneurial Spirit, and Promote Lifelong Ethical Learning.

Bombay College of Pharmacy (BCP) is a pioneer institution in pharmaceutical education in India. BCP was founded in 1957 by the Indian Pharmaceutical Association - Maharashtra State Branch (IPA - MSB) with financial assistance from the Government of Maharashtra and several pharmaceutical companies. It is centrally located and well connected by road, rail and air. Since its inception as a college offering a Diploma in Pharmacy, the college has grown in stature and at present offers Bachelors, Masters, and Doctoral programs of study in Pharmaceutical Sciences.



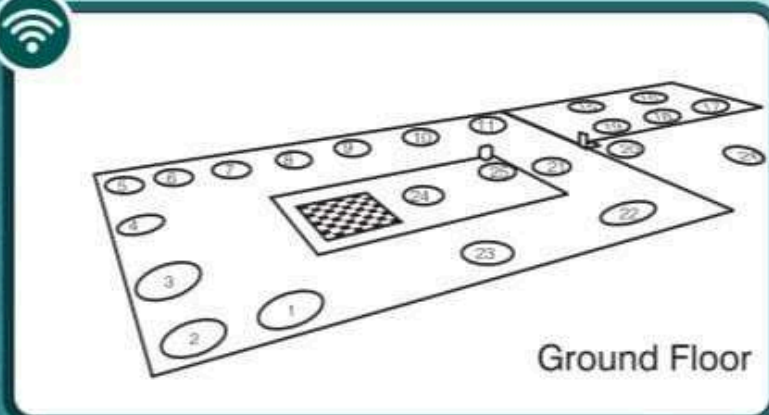
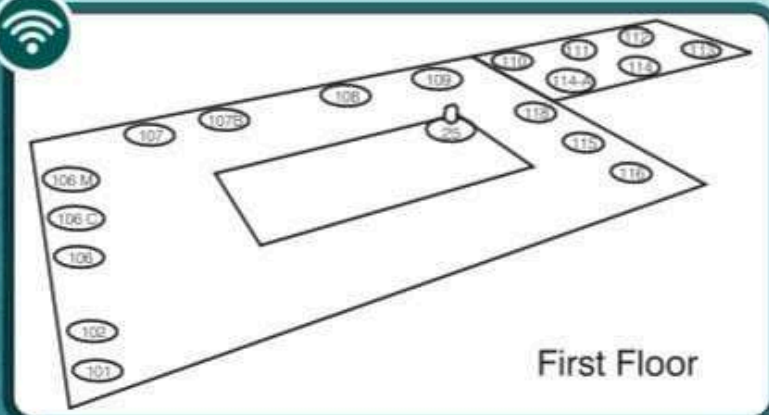
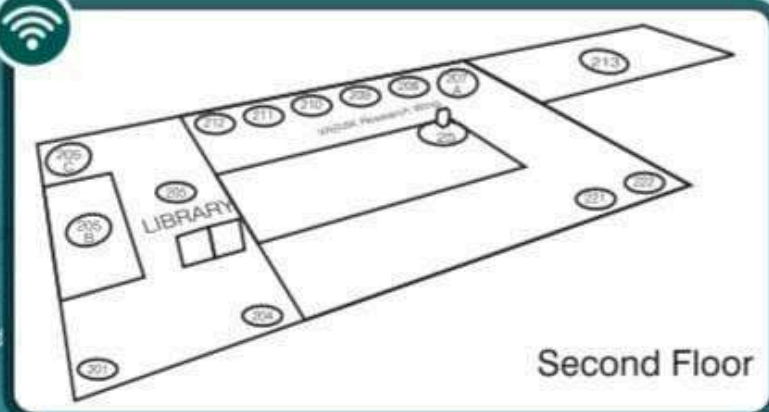
PROGRAM EDUCATIONAL OBJECTIVES

- 1 To attain excellence in disseminating knowledge within the realms of Pharmaceutical, Allied, and Healthcare Sciences
- 2 To excel in imparting practical and laboratory skills, along with field and applied knowledge in Pharmaceutical, Allied, and Healthcare Sciences
- 3 To promote and advance applied research through collaborative projects and experiential learning opportunities
- 4 To nurture leadership and team-building capabilities, entrepreneurial spirit, community service ethos, continuing educational pursuits, and professional ethics
- 5 To promote holistic personality development through co-curricular and extracurricular activities



BIRD'S - EYE VIEW

- 223 Terrace
- 222 Tutorial Room
- 221 Tutorial Room
- 214 VASVIK Research Wing
- 213 National Facility for Research and Training
- 212 Pharmaceutic Chemistry Research Lab
- 211 Pharmaceutic Research Lab
- 210 Panacea Lab (Pharmacology Research Lab)
- 209 Pharmaceutic Research Lab
- 208 Wockhardt Research Lab
- 207-A High Speed Computation facility and Server Room
- 206 Micro Lab (MKR)
- 205-C Books (> 10000 books reference section and periodicals)
- 205-B High Speed Network Connected Latest Computer Lab
- 205 Library
- 204 Tutorial Room
- 201 Classroom
- 118 Museum
- 116 Pharmacology lab-Animal House
- 115 Pharmacology Lab
- 114-A Pharmaceutical Chemistry lab-03
- 114 Pharmaceutical Chemistry Lab-02
- 113 Pharmaceutical Chemistry Lab-01
- 112 Pharmaceutical Analysis Research Lab-02
- 111 Pharmaceutical Analysis Research Lab-01
- 110 Tutorial Room
- 109 Classroom
- 108 Sophisticated Central Instrument Room
- 107-B Faculty Room
- 107 Phytochemistry & Pharmacognosy lab
- 106-M Account Department
- 106-C IPA-MSB Office
- 106 Administration Office
- 102 IPA Office
- 101 Conference Room
- 26 Medicinal Plant Garden
- 25 Lift
- 24 *Recreational Area- Carrom Boards-Garden Chess Set-Table Tennis*
- 23 Auditorium
- 22 Boys Common Room
- 21 Canteen Area
- 20 Entry for Disabled
- 19 Pharmaceutic Micro Lab-03
- 18 Pharmaceutic Lab-02
- 17 Pharmaceutic Lab-01
- 16 Seminar Room
- 15 Seminar Room
- 11 Girls Common Room
- 10 Machine Room
- 9 Pharmaceutics Research Lab
- 8 Faculty Room
- 7 Main Store Room
- 6 Natoli Lab-02
- 5 Natoli Lab-01
- 4 Natoli Office
- 3 Classroom-003
- 2 Classroom-002
- 1 Classroom-001



* Not to scale

* Free usage of Office 365 suite for bonafide students, staff of BCP



: With 120mbps dedicated internet lease connectivity

TRAINING AND PLACEMENT CELL

The placement cell of Bombay College of Pharmacy acts as a contact point for pharma and allied industries that wish to recruit students from the BCP. It also organizes pre-placement talks for corporates who wish to visit the campus for recruitment.



Some of our eminent recruiters include:



INDUSTRY INSTITUTE PARTNERSHIP CELL

The main objective of this cell is to act as a liaison between industries and the BCP. The following are the major activities of the IIP cell :-

- Maintenance, co-ordination & promotion of consultancy services
- Industry study tour programme (ISTP), internship programme & placement of students
- Soft Skill Training for Students

- Industrial training and industrial visits for students
- Industrial exhibitions
- Training of industrial personnel in Bombay College Pharmacy
- Guest lectures
- Skill Development facilities using online platforms
- Hospital Visits



The achievements of alumni of BCP themselves speak of the quality of education and training given here. The alumni are successful entrepreneurs, businessmen, consultants, scientists, administrators and academicians.

Photoaraph of some alumni functions



AWARDS AND ACCOLADES OF FACULTY

Few of the Awards and Accolades of Faculty of BCP are listed below :



Prof. Krishnapriya Mohanraj	2024	Bharat Shiksha Gaurav Puraskar for outstanding achievements and remarkable contribution in field of Pharmaceutical Education.	Prof. Mala Menon	2019	Distinguished Professor Award (National Science & Technology Management Informatio System, DST)
Prof. Krishnapriya Mohanraj	2024	Global Chair- Dissolution Research Presentations International (DRPI) by society for pharmaceutical dissolution science.	Prof. Mala Menon	2018	Award for Promising Innovation in Solid Dosage Form (IPA-ACG Sci Tech)
Dr. Alka Mukne	2024	Distinguished Scientist Award American Association of Indian Pharmaceutical Scientists (AAIPS) for excellence in Pharmaceutical Sciences.	Prof. Mala Menon	2018	Best Professor in Pharmaceutics (Dewang Mehta National Education Award)
Dr. Alka Mukne	2023	IPA Prof. M. L. Khorana Memorial Lecture Award	Prof. Mala Menon	2018	IPA-ACG Scitech Innovation Award in Solid Dosage Development
Dr. Anuradha Majumdar	2023	Most Influential Professor Award 30th Edition of Business School Affairs. Anveshan Western Zone Gold in Health Sciences	Prof. Mala Menon	2017	Best Professor of Pharmaceutics (National Education Award)
Dr. Anuradha Majumdar	2023	Most Influential Professor Award 30th Edition of Business School Affairs. Anveshan Western Zone Gold in Health Sciences	Prof. Mala Menon	2017	Distinguished Professor Award Sponserd by NSTMIS a DIVN of DST
Prof. Krishnapriya Mohanraj	2023	Most Iconic Healthcare Leader (Global) Award (World Health and Wellness Congress)	Prof. Krishnapriya M.	2017	First Prize at 8 th Indian Youth Science Congress
Prof. Krishna Iyer	2023	First Prize at Asia Pacific International Society for Study of Xenobiotics	Dr. Alka Mukne	2016	Fellowship of Indian Pharmaceutical Association (IPA)
Prof. Krishna Iyer	2022	Consolation Prize at Avishkar Research Convention	Prof. Mala Menon	2016	Dr. P. D. Patil Best Pharmaceutical Scientist Award from APTI Maharashtra
Dr. Harita Desai	2022	Second Prize in 17th Avishkar Inter Institute Research Convention	Prof. Krishnapriya M.	2016	2 nd Prize in Avishkar for Poster and Oral Presentation
Dr. M. S. Nagarsenkar	2022	Lifetime Achievement (The IPA MSB-SF)	Prof. M. N. Saraf	2015	Amrut Mody Distinguished Researcher Award
Dr. Alka Mukne	2021	Distinguished Women Teacher (Contas College of Pharmacy)	Dr. Anuradha S. Majumdar	2014	Gold Medal in Avishkar
Dr. Evans Coutinho	2021	Lifetime Achievement (The IPA MSB-SF)	Prof. M.S. Nagarsenkar	2013	Mrs. Manjushree Pal Best Researcher National Award
Dr. Mala Menon	2021	Lifetime Achievement (The IPA MSB-SF)	Prof. M.S. Nagarsenkar	2012	Amrut Mody Distinguished Researcher Award
Prof. Krishnapriya	2020	101 Fabulous Global Health care leader Award (World Health and Wellness Congress & Awards)	Prof. Krishnapriya Mohanraj	2012	Dr. P. D. Sethi Annual Award
Dr. M. S. Nagarsenkar	2019	World top 2% (Stanford University, USA)	Dr. Savita R. Kulkarni	2011	Dr. P. D. Sethi Annual Award
Dr. Ujwala Shinde	2019	Best Professor in Pharmaceutics (Dewang Mehta National Education Awards)	Dr. Alka Mukne	2008	Biographical Listing in Marquis who's who in Science & Engineering
Prof. Mala Menon	2019	Distinguished Professor Award (National Science & Technology Management Informatio System, DST)	Mr. Mushtaque S. Shaikh	2006	Best emerging Scientist Award at Focus India
			Dr. Alka P. Mukne	2006	Outstanding Achievement Award by IPA
			Prof. M. N. Saraf	2004	Best Principal Award by APTI
			Prof. Evans C. Coutinho	1995	Career Award for Young Teachers by AICTE
			Prof. Evans C. Coutinho	1993	PAMDAL Best Teacher Award



MILESTONES

2025

In collaboration with Pharmacad started guiding academically weaker students.

2025

In collaboration with Digital Health Associates started Professional Development Program in Digital Health for Pharmacists.

2025

In collaboration with Pharmacad started training to students to prepare them for GPAT/NIPER/ MBA Entrance exams.

2025

A Fire alarm system has been installed in the campus for enhanced safety.

2024

Successfully completed 10 yrs of Green Energy.

2022

Collaboration with Natoli-BCP Institute for Research and Industrial Pharmacy Training (NBIRIPT) to conduct training programs & accept contract Research projects from Pharmaceutical/Nutraceutical, confectionery industries.

2022

Successfully conducted the biodiversity audit with geotagging and QR coding of all the trees.

2022

Started Degree, PG & PG. Diploma program in Integrative Nutrition, Dietetics & Health in collaboration with Lifeness Science Institute LLP (LSI) affiliated to Mumbai University.

2022

Nominated by DTE, Regional office for Green Campus Award

2022

Prestigious Scholarship 'Prime Ministers' Fellowship for Doctorate Research with industry Partner Bliss GVS Pharma Limited under DST, SERB awarded to Ph. D Student 8/12/2021

2022

4 Star rating for institution innovation council (IIC)

2021

Started a Certificate Course in Data Analytics in Healthcare in collaboration with Navigo Analytix.

2021

Ranked 25th among Pharmacy institution by MHRD National Institutional Ranking Framework (NIRF)

2021

Selected as host Institute for Distinguished Chair Professor Scheme of AICTE

2020

Ranked 24th among Pharmacy institution by MHRD National Institutional Ranking Framework (NIRF)

2019

Conferment of Autonomous Status from 2019-20 to 2028-29

2019

Presented with National Education leadership Award by ABP News.

2019

Ranked 24th among Pharmacy institution by MHRD National Institutional Ranking Framework (NIRF)

2019

FICCI 6th higher education excellence award special Jury mention for Excellence in Enabling Research Environment

2018

2nd Prize-Best Industry Linked Institute in Pharmacy category from AICTE-CII

2018

Ranked 8th among Pharmacy institution by MHRD National Institutional Ranking Framework (NIRF)

2017

Ranked 15th amongst Pharmacy institutions of India under NIRF MHRD

2017

Accreditation for 5 years by NBA

2017

Grant Rs. 5.87 Crores from DST DPRP for National Facility for Research & Training

2016

Ranked 6th amongst Pharmacy Institutions by MHRD under NIRF

2015

IndPact Mentor Award for Best Industry - Linked Pharmacy Institute from AICTE-CII

2015

BCP and University of Mumbai fetched First runner up Trophy in national research competition AVISHKAR

2014

Best Industry Linked Institute in Pharmacy category from AICTE- CII

2013

Best Industry Linked Institute in Pharmacy category from AICTE- CII

2013

Ranked Country's 4th Best Pharmacy College by a Survey

2013

Inauguration of Radioimmuno-assay Laboratory (RIA Lab)

2011

BCP and University of Mumbai fetched Gold Medal(s) and a Trophy in AVISHKAR

2011

Postgraduate Course in Pharmaceutical Analysis with intake for 18 students

2008

Golden Jubilee Celebrations. An International Symposium "Designing the future New Medicines and New Methods" conducted on 18th and 19th Jan. 2008 at Hyatt Regency Mumbai

2008

Accreditation for 5 years by NBA

2004

FIST grant from DST for improving infrastructure

2001

Patents Awareness Workshop in Collaboration with TIFAC- Govt. of India

1998

Golden Jubilee IPCA Conference Jointly with FAPA Conference

1995

Inauguration of "Ramesh Banarwala Memorial Industrial Pharmacy Laboratory" and Permanent Affiliation to University of Mumbai

1993

International Symposium on "Update on Bioavailability and Bioequivalence"

1990-1993

Foundation and opening of "Bioavailability Centre"

1987

The VASVIK Research Wing was inaugurated and an International Symposium on "Controlled Release Dosage Forms" was held and the Staff Quarters for senior faculty members was constructed

1984

The Silver Jubilee of the college was celebrated and an International Symposium on "Advance in Drug Delivery System" was held

1982

The M.S.D auditorium, with seating capacity of 500 was opened

1981

The Research Society of the Bombay College of Pharmacy was formed and registered with the Department of Scientific and Industrial Research (DSIR), Govt. of India

1977

The Second Commonwealth Pharmaceutical Congress jointly with the 28th I.P.C.A and the Pharma Expo-77

1976

The UNESCO Microbiology workshop

1973

BCP was affiliated to the Mumbai University for the M. Pharm & the PhD (Tech) course. The College also received its first research grant from CSIR. Since then several important events have marked the progress of BCP

1970

BCP was affiliated to the Mumbai University for the B. Pharm course

1966

The Building at Kalina was inaugurated and BCP hosted the 18th Indian Pharmaceutical Congress

1957

The Diploma course was started and BCP was formally constituted

1956

The idea of establishing the Bombay College of Pharmacy (BCP) was formulated under the leadership of the Late Prof. M. L. Khorana in 1956, in the form of a short term course called "Practicing Pharmacists Training (PPT) course"





DEPARTMENT OF PHARMACEUTICS

Faculty:

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Ms. Pranita Bhangare, M. Pharm, Assistant Professor (Pranita.Bhangare@bcp.edu.in)

Ms. Pankti Ganatra, M. Pharm, Assistant Professor (Pankti.ganatra@bcp.edu.in)

Mr. Parimal Hadge, M. Pharm, Assistant Professor (Parimal.Hadge@bcp.edu.in)



The Department of Pharmaceutics is dedicated to undergraduate teaching and is actively involved in research at the post graduate (M. Pharm. and Ph.D.) level. The department is equipped with the necessary infrastructure essential for smooth undergraduate teaching. The department also has state-of-the-art facility to support post graduate research activities.

Key Research areas :

- Novel Drug Delivery Systems- Liposomes, Niosomes, Polymeric micelles, Microparticles, Nanoparticles, & Implants.
- Solubility enhancement technology - Cyclodextrin based systems, Crystal engineering
- Polymeric coatings and Pelletization
- Novel veterinary formulations
- Polymer Synthesis, design of ligands for targeting
- Mucosal vaccine delivery
- Development of analytical methods and validation. **in-vitro** dissolution and permeation methodologies
- Sustained and controlled release systems for oral, pulmonary, nasal, ocular, transdermal and vaginal applications

The Industrial Pharmacy Laboratory (BCP) has facilities in collaboration with Natoli Engineering, USA

- For solid dosage forms, which include rapid mixer granulator, GMP model compression machine and dissolution test apparatus.
- For novel systems which include probe sonicators, high speed homogenizer, spray dryer, freeze dryer, type 4 dissolution test apparatus, vertical diffusion cells, high pressure homogenizer, DSC, particle size analyzers and HPLC systems.
- For Pulmonary targeted formulation which include Anderson cascade impactor & Twin stage impactor.

Collaborations

The department also collaborates with pharmaceutical corporate clients for preformulation, formulation development and pilot plant scale up projects. Some of the clients include :

- | | |
|--------------------------|---------------------------|
| • Abbott India Ltd | • Mother Dairy |
| • ACG Group | • M/s Infovet |
| • Brassica Pharma | • Saifee Vetmed Pvt. Ltd. |
| • Gattefosse (I) Ltd. | • IMCD India Pvt. Ltd. |
| • Lubrizol Life Sciences | • Colorcon Asia Pvt. Ltd. |
| • Macleods Pharma Ltd. | • Arianant Innochem |
| • Marico Ltd. | |



Department has established several research international as well as national collaborations in areas of drug delivery research. Department has successfully collaborated with:

- Bristol Myers Squibb, USA
- Centre of Drug Research, University of Helsinki, Finland
- Department of Pharmaceutical Technology, Goethe University, Germany
- Interactual Department of Pharmaceutical Technology, University of Jena, Germany
- Janssen Pharmaceuticals, Belgium
- Lupin Pharmaceuticals, USA
- VLAIO, Belgium
- Yuvan Research, USA
- Natoli Engineering, USA



National Collaborations :

- Advanced Centre for Treatment, Research and Education in Cancer (ACTREC, Navi Mumbai)
- Agharkar Research Institute, Pune
- Board of Radiation and Nuclear Science (BRNS, Mumbai)
- Bombay Veterinary College (Mumbai)
- Department of Pharmacy, Tripura University (Central Chemistry)
- GS Medical college and KEM Hospital (Mumbai)
- Haffkine Institute (Mumbai)
- Institute of Chemical Technology, Mumbai
- Serum Institute of India (Pune)
- Centre for excellence in Basic Science, University of Mumbai



Department also provides services in characterization of drug delivery systems which include:

- Size Determination using Beckmann Coulter, USA
- Zeta Potential using Malvern NanoSizer Series ZS (UK)
- In vitro lung deposition using Andresen Cascade Impactor, Copley Scientific, UK
- In vitro skin permeation studies using Vertical Diffusion Cell, Hanson Research, US
- Differential Scanning Calorimetry Studies using DSC, Mettler Toledo, Switzerland
- Size reduction using high pressure homogenizer
- R&D Scale batches on Spray Drier, Fluid Bed Coater, Freeze Dryer.



Publications:

More than 200 publications in high impact factor journals like

- | | |
|--|---|
| • AAPS PharmSciTech | • Journal of Drug Delivery and Therapeutics |
| • Carbohydrate Research | • Journal of Drug Delivery Science & Technology |
| • Dissolution Technology | • Journal of Microencapsulation |
| • Drug Development and Industrial Pharmacy | • Journal of Pharmaceutical Innovation |
| • International Journal of Pharmaceutics | • Journal of Pharmaceutical Sciences |
| • International Journal of Biological Macromolecules | • Molecular Pharmaceutics |
| • Journal of Controlled Release | • Respiratory Drug Delivery (Proceedings of Conference) |
| • Journal of Cosmetic Science | |

Faculty has contributed chapters in several books and has acquired patents and trademarks.

Faculty is frequently invited to deliver lectures in field of novel drug delivery systems.

More than 300 posters have been presented by the department in national and international conferences, symposia and seminars.



DEPARTMENT OF PHARMACEUTICAL CHEMISTRY

Faculty:

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Mr. Abhijeet Dalvi, Ph. D. (pursuing), Assistant Professor,
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Ms. Kusum Mehta, M. Pharm., Assistant Professor, (Kusum.mehta@bcp.edu.in)



Research Guide from other departments:

- Dr. Krishnapriya Mohanraj, Ph. D. Tech, Professor
- Dr. Vaishali Shirsat, Ph. D., Associate Professor, Head of Department (Pharmaceutical Analysis)

Areas of Research:

- Pharmacokinetics
- Waste water treatment
- Multidimensional and multinuclear NMR
- Process development for intermediates and bulk drugs
- Plant xenobiotics metabolism
- Synthetic medicinal chemistry
- Drug metabolism
- Polymer-drug conjugates for metabolic disorders & chronic wound healing
- Cell and molecular biology
- Computer- aided drug design: Docking, virtual screening, QSAR, molecular dynamics
- Protein modelling
- Herbal-drug formulations

Facilities available in the department include:

- Rotavap
- Cooling Centrifuge Machine (Biofuge stratos)
- Biofuge stratos
- Lyophilizer (Labogene)
- Rolling Ball Viscometer (Anton Paar)
- Microwave Synthesizer (CEM-Discover)
- Fume Hood
- Water bath shaker Remi Equipments
- Multichannel parallel synthesizer Autochem
- pH meter
- High performance liquid chromatography/Gel Permeation chromatography (Waters)
- High performance liquid chromatography (Jasco 4000 series)
- Photo diode array detector
- Flash Chromatography
- Jasco HPLC with PDA and fluorescence detector
- Jasco UV- visible spectrometer
- Shimadzu HPLC with dual wavelength
- CAMAG HPTLC
- In silico: AMBER, ORCA, GROMACS, AUTO DOCK VINA

Services provided by the department:

- Analysis of GPC sample using Water's RI Detector
- Comparative analysis of FCM Injection
- Analysis of Viscosity sample
- FBD of the samples
- In silico studies



"Student secured First Prize at Maharashtra State Inter-University AVISHKAR Research Convention"



Extra mural funding:

- All India Council of Technical Education(AICTE-RPS/MODROBS)
- Council of Scientific and Industrial Research (CSIR)
- Department of Science and Technology (DST)
- Spring Bank Pharmaceuticals, USA

Collaborative Programs of the department with industry and institutes:

- Neoven lab Instrument
- Emcure Pharmaceutical Ltd.
- Carister Labosteries
- EVONIK
- Rudraksha chemical allied
- Purnima Analytics
- Agharkar Research Institute, Pune
- Arati Chemicals, Thane
- Alantas Beck, Pune
- Chandigarh College of Pharmacy, Mohali, Punjab
- Chemworks, Mumbai
- Central Effluent Treatment Plant, Ambarnath
- Department of Chemistry, Saurashtra University, Rajkot
- Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Johns Hopkins University, USA
- Haffkine Institute, Mumbai
- Indofil Ltd., Thane, Maharashtra
- Kenpack Pharma

Publications:

More than 200 research publications in high impact factor journals like:

- Biotechnology for Sustainable Materials
- Journal of Pharmaceutical Sciences
- Molecular Pharmaceutics
- International Journal of Research in Medical Sciences
- ACS Applied Bio Materials
- Indian Journal of Pharmaceutical Sciences
- World Journal of Pharmaceutical Research
- Journal of Computational Chemistry
- QSAR and Combinatorial Science
- Journal of Peptide Science
- Bio-organic and Medicinal Chemistry
- Chemical Research in Toxicology
- Biopolymers
- Water Science & Technology
- Journal of Emerging Infectious diseases
- Biomedical Research Journal
- Journal of Biological Macromolecules
- European Journal of Pharmacology
- PLOS One

Student Research fellowship:

APG Pharma Research Lab LLP

Faculty members have made significant scholarly contributions, authoring chapters in numerous patents, books, and encyclopedias. Over 350 research papers have been published and presented by the faculty at various national and international conferences, symposia, and seminars. Additionally, they have been invited to deliver lectures at prestigious academic events including conferences, seminars, and workshops.

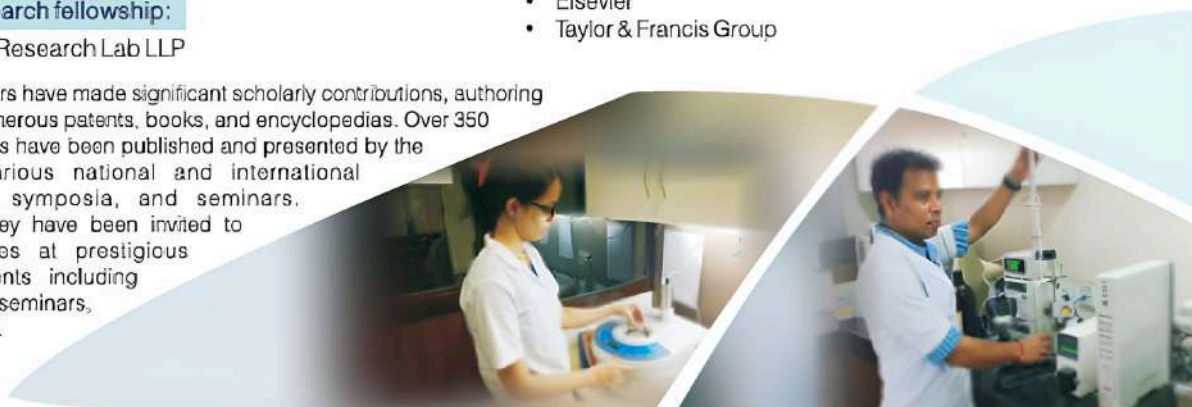
- University of Mumbai
- University Grants Commission (UGC)
- Department of Biotechnology (DBT)
- BASF, Germany
- Bristol Meyers Squibb (BMS, USA)
- APG Life Science

- Aarti industries
- Elantas Beck Ltd.
- Institute for Pharmaceutical and Medicinal Chemistry, Henrich-Heine University, Dusseldorf, Germany
- KEM Hospital
- Kingston University, London
- Omshri Labs, Mumbai
- School of Biochemistry, University of Bristol, UK
- Tata Consultancy Services
- Tuberculosis Research Centre University of Lillinois, Chicago, USA
- UM-DAE Center for Excellence in Basic Sciences, Mumbai
- University Institute of Pharmaceutical Sciences, Punjab University, Chandigarh
- DRDO
- St. John Institute of Pharmacy & Research
- Guru Nanak College of Pharmacy, Nagpur

- The Journal of American Chemical Society
- Journal of Organic Chemistry
- Biochemistry
- FEBS Lett
- Tetrahedron
- Journal of Computer Aided Molecular Design
- Journal of Molecular Graphics and Modeling
- Journal of Molecular Modeling
- Drug Metabolism and Disposition
- Biomaterials
- Journal of Medicinal Chemistry
- Current Drug Delivery
- International Journal of Biological Macromolecules
- Water Practice & Technology
- Journal of Chemical Information and Modeling
- Journal of Biological Chemistry
- The Nucleus

Book chapters:

- CRC Press
- Springer
- Elsevier
- Taylor & Francis Group



DEPARTMENT OF PHARMACOLOGY

FACULTY:

Dr. Anuradha Majumdar, Ph.D. (Tech) - HoD,
Associate Professor & Former Dean, Faculty of Science and
Technology, University of Mumbai (anuradha.majumdar@bcp.edu.in)
Ms. Mayuri Padhye, M. Pharm, Assistant Professor
(mayuri.padhye@bcp.edu.in)
Ms. Hiral Surani, M. Pharm, Assistant Professor
(niral.surani@bcp.edu.in)
Ms. Pragati Gurav, M. Pharm, Assistant Professor
(Pragati.gurav@bcp.edu.in)



The Department of Pharmacology, Bombay College of Pharmacy, is reputed for its preclinical research in India. The department offers Master and Ph.D. in Pharmacology. This course is approved by the All India Council of Technical Education, Directorate of Technical Education, Maharashtra State and the University of Mumbai. The department boasts of experienced and renowned faculty and well equipped Pharmacology and Toxicology laboratories. The laboratories are designed to cater to preclinical pharmacological and toxicological evaluations of drugs/herbals/phytochemicals using contemporary in vivo and in vitro tools. The department has been prolific in its outcome of successful completion of several industry and Government sponsored projects.

This programme is approved by the Pharmacy Council of India, Directorate of Technical Education Maharashtra State and the University of Mumbai.

Some of our Research Expertise:

Pharmacological screening and evaluation in the domain of:

- Inflammation and Immunology
- Cardiovascular and Respiratory disorders
- Cancer
- Cellular and Molecular Biology
- Diabetes and Metabolic disorders
- Neuropharmacology and Behavioural Pharmacology
- Pharmacokinetics
- Safety Pharmacology and Toxicology
- Metalloid toxicity studies
- Herbal and Phytochemical analysis
- Metabolism and Pharmacokinetic studies
- NDDS
- Consultancy in pharmacological and toxicological field
- Medical writing (Publication and Medical Information)
- Network Pharmacology
- Kidney Disorders
- Transdisciplinary research which includes Environmental toxicity due to Microplastics and Nanoplastics.
- Herbal and Phytochemical analysis and Evaluation
- Pharmacovigilance

Facilities available in the department include:

- CPCSEA approved animal house facility.
- HPLC with PDA and fluorescence detector.
- Intracerebroventricular (i.c.v.) drug delivery and CSF aspiration in rodents using Stereotaxic apparatus and Nanomite pump.
- Real time Polymerase Chain Reaction based Equipments both semi-quantitative PCR and RT-qPCR.
- Zebra fish and Drosophila Experimental facility.
- Physiological data acquisition system like, 8 and 4-channel Power Lab data acquisition system with Spirometry, ECG, NIBP, IBP, NCV, isolated muscle preparation nerve electro physiology measurements etc.



- Protein quantification and characterisation through western blot, gel electrophoresis and gel documentation system.
- Dedicated mammalian cell culture facility for Cell Proliferation and Cytotoxicity studies.
- Other instruments include Roteva Rotary evaporator, Plethysmometer, hot plate, Actophotometer, Rota-rod, Cooks pole climbing apparatus, forced swimming test apparatus, rodent and zebrafish mazes, recording devices etc.
- The biochemical parameter assessment through blood-gas analyzer, auto-analyzer, cell counter, ELISA Plate reader.
- Immuno Histo chemistry, facility for tissues.
- *C. elegans* experimentation facility.

Funding, infrastructural support, collaborative research and industrial projects, consultancy assignments include:

Funding Agency (Government)

1. All India Council for Technical Education (AICTE)
2. Council of Scientific & Industrial Research (CSIR)
3. Department of Science and Technology (DST)
4. Department of Biotechnology (DBT)
5. University Grants Commission (UGC)
6. Indian Council of Medical Research (ICMR)
7. Board of Research in Nuclear Sciences (BRNS)
8. University of Mumbai
9. Department of Biotechnology - Biotechnology Industry Research Assistance Council (DBT-BIRAC)
10. Department of Foreign Affairs & Trade, Australian Government, Australia-India Indo Pacific Oceans Initiative Partnership (AIPOIP)

Funding Agency (Industry)

Alembic Ltd., Aurobindo Pharma Ltd., Bharat Serums and Vaccines Ltd., Cipla Ltd., Clinworld Pvt. Ltd., Criticare Laboratories Pvt. Ltd., Elder Pharmaceuticals Ltd., FDC Ltd., Glenmark Pharmaceuticals Ltd., Gufic Healthcare Ltd., Hetero Drugs Ltd., Hindustan Lever Ltd., Ipca Laboratories Pvt. Ltd., Kopran Ltd., Khandelwal Labs Ltd., Lupin Laboratories Ltd., Macleods Pharmaceuticals Ltd., Marico Ltd., Medley Pharmaceuticals Ltd., Micro Labs Ltd., Siro Clinpharm Pvt. Ltd., Sun Pharmaceutical Industries Ltd., Shreya Life Sciences Ltd., Sandu Pharmaceuticals Ltd., Themis Medicare Ltd., Torrent Pharmaceuticals Ltd., Unichem Laboratories Ltd., Yasham P2D Life Sciences, Lamar Group of Companies, Charak Pharma Ltd., Pfizer India Ltd. etc.



The department also conducts "Technical Developmental Programs" for industry personnel on:

- Skill development program for Industry personnel and students in animal handling and preclinical pharmacological evaluation methods.
- Skill development program for nurses and pharmacists on Anti microbial Stewardship Programme, Prescription Audit based Medicine optimization and Scheduled Drug Management for Hospital Pharmacists.

Consultancy Services:

- Consultancy Services in the field of Preclinical & Clinical Pharmacology



DEPARTMENT OF PHARMACOGNOSY & PHYTOCHEMISTRY

Faculty:

Alka Mukne, Ph.D., Assistant Professor, I/C Head of Department (alka.mukne@bcp.edu.in)

Vishvanath Vaidya, M. Pharm, Assistant Professor (vishvanath.vaidya@bcp.edu.in)

Jyoti Kumari Jha, M. Pharm, Assistant Professor (jyoti.jha@bcp.edu.in)

Sonali Dangat, M. Pharm, Assistant Professor (sonali.dangat@bcp.edu.in)

Sachin Wankhede, M. Pharm, Assistant Professor (sachin.wankhede@bcp.edu.in)



The Department of Pharmacognosy and Phytochemistry offers Masters and Doctorate in Pharmaceutical Sciences, approved by All India Council of Technical Education (AICTE), Directorate of Technical Education, Pharmacy Council of India (PCI), Maharashtra State University of Mumbai.

The Department of Pharmacognosy & Phytochemistry has a reputation for excellence in research and has experienced and technically - competent faculty with the following areas of expertise:

- Standardization of crude drugs and herbal extracts
- Bio-activity guided fractionation of herbal extracts
- Evaluation of therapeutic potential of crude drugs and their various extracts
- Study of different parameters of extraction of herbal drugs and optimization
- Isolation and characterization of phytoconstituents from herbal extracts
- Evidence based bioactivity evaluation of herbs, Ayurvedic formulations & nutraceuticals
- Solubility manipulations of drugs of natural origin by various techniques
- Development of conventional formulations and Novel Drug Delivery Systems of herbal extracts & Nutraceuticals
- Analytical method development and validation for crude drugs, herbal extracts and herbal formulations by HPLC, HPTLC and other chromatographic techniques
- Stability studies and shelf life study of herbal & Nutraceutical formulations
- Development and evaluation of Ayurvedic formulations, Nutraceuticals and cosmeceuticals



The department is well-equipped with state-of-the-art equipment and facilities for conducting first-grade research in the area of herbal drug discovery, development and evaluation. Given below are few of the high-end equipment available with the department:

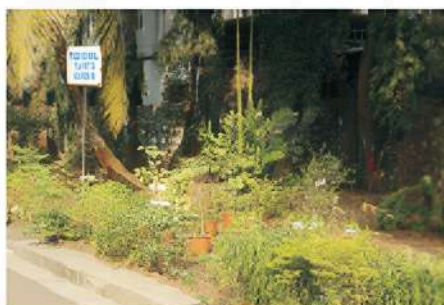
- Shimadzu HPLC with PDA detector & autosampler
- CAMAG HPTLC with LINOMAT V Applicator and Scanner
- Agilent HPLC with Quaternary pump & PDA Detector
- Supercritical Fluid Extractor
- Buchi Rotary Vacuum Evaporator
- Virtis Lyophilizer
- Esco Class II Biosafety Cabinet
- BioRad ELISA Reader
- Gel electrophoresis
- Esco CO2 incubator
- Air Purifier

The Department has received funding for its research projects from various government funding agencies including DBT, BARC - BRNS, AICTE, CSIR, UGC and University of Mumbai.

In addition, the department has successfully completed projects sponsored by industry including German Remedies, Marico, Zandu pharmaceutical works, Charak Pharma, Anazeal analyticals and Omniactive Health Technologies. The department has also been engaged in guiding B Tech & MD students of Ayurved faculty regarding the formulations. Many such funded projects also have been completed.

Medicinal plant garden

The Department has developed a lush, well-maintained medicinal plant garden with almost 60 QR-coded herbs of medicinal value. The adjunct literature of the planted medicinal herbs of the garden and Pharmacognosy museum has also been maintained and updated by the department.



DEPARTMENT OF PHARMACEUTICAL ANALYSIS

Faculty:

Dr. Krishnapriya Mohanraj, Ph.D. (Tech), Professor
(krishnapriya.mohanraj@bcp.edu.in)

Dr. Vaishali Shirsat, Ph.D. (Tech), Associate Professor and
Head of the Department (vaishali.shirsat@bcp.edu.in)

Dr. Archana A Naik, Ph.D. (Tech), Associate Professor
(archana.naik@bcp.edu.in)

Dr. Anagha. C. Raut, Ph.D. (Tech), Associate Professor
(anagha.raut@bcp.edu.in)

Ms. Kalyani Joshi, M. Pharm, Assistant Professor
(kalyani.joshi@bcp.edu.in)



Established in 2012, the Department of Pharmaceutical Analysis brings another dimension to specialized research arena at Bombay College of Pharmacy. The department is actively involved in training students at undergraduate and postgraduate levels. The department offers Master of Pharmacy Course in Pharmaceutical Analysis which is approved by the All India Council of Technical Education, Directorate of Technical Education, Maharashtra State and the University of Mumbai for an intake of 15 students per year. The Department has state-of-the-art laboratories, supported by good infrastructure and well-trained faculty.

Distinguished mentors of department:

The department is privileged to have following distinguished mentors who help and guide the department in its various activities including curriculum development, research and resource mobilization.

- Dr. A. J. Vaidya, Director, Analytical Solutions
- Dr. Manish Gangrade, Vice President, Analytical R&D & Regulatory Affairs (API), Cipla Ltd.
- Mr. V. U. Kshirsagar, Director & CEO, TRAC Pharma Consulting

Some of our research expertise:

- Analytical and Bio-analytical method development and validation
- Spectrophotometric multi-component analysis
- HPLC and HPTLC analysis
- Chiral chromatography
- Stability indicating methods, Impurity profiling
- Metabolism and Pharmacokinetic studies
- Herbal and Phytochemical analysis, Drug-herb interaction studies
- Bioactivity guided fractionation of herbal extracts
- In silico analysis and Computer-aided Drug Discovery
- Bioassays, High throughput assay method development
- Structural elucidation assignments
- Polymer synthesis and their evaluation
- LC-MS/MS, HPTLC-MS & ICP-MS Analysis (both qualitative and quantitative analysis)
- Nitrosamine and NDSRI analysis

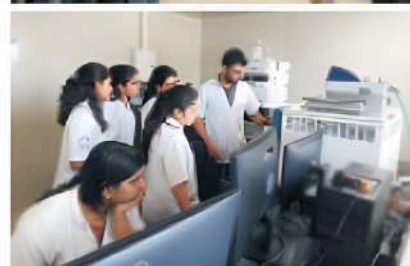


Some Therapeutic areas of interest:

- Antimicrobial: Anti-bacterial, Anti-fungal, Anti-HIV
- Anti-platelet
- Angiogenesis

Facilities available in the department include:

- LC-MS/MS - Qtrap (Sciex)
- ICP-MS
- Agilent LHPLC and HPLC with PDA detector
- Jasco HPLC with UV detector
- Jasco HPLC with PDA and Fluorescence detector
- Jasco UV-Visible Spectrophotometer
- CAMAG HPTLC and HPTLC-MS interface
- Gas Chromatography
- FTIR
- Rotary Evaporator
- Molecular Modeling Facility
- Solid Phase Extractor
- Low Temperature Synthesizer
- Nitrogen Evaporator
- Microbiological testing including resazurin microtitre assay (REMA)
- Cell Culture Facility



Funding, Collaborations and Technology transfer:

The departmental faculty received substantial **funding from government agencies** namely All India Council of Technical Education (AICTE), University Grants Commission (UGC), Department of Biotechnology (DBT), Department of Science & Technology (DST), National Medicinal Plants Board, Department of AYUSH and University of Mumbai for research projects and travel.

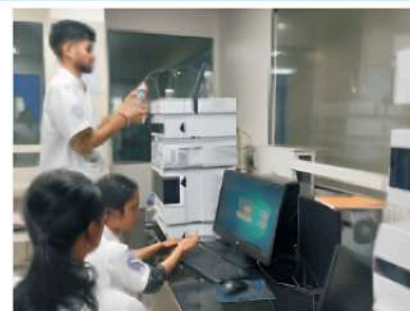
In 2017, **Department of Science and Technology (DST)** sanctioned grant of **Rs. 5.87 crores** for establishment of a **National Facility for Research and Training in Integrated Analytical Strategies for Discovery, Development and Testing of Drugs, Pharmaceuticals and Nutraceuticals** under the Drugs and Pharmaceutical Research Program. The facility includes sophisticated high end analytical instruments viz. LC-MS-MS, ICP-MS, and HPTLC-MS.

The faculty collaborates with various pharmaceutical industries and academic institutes for infrastructural support, research, consultancy assignments and technology transfer -

- | | | | |
|--|---------------------------------------|---|-------------------------------------|
| • Aarti Healthcare | • Analytical Solutions | • Nerlikar Hospital | • Macleods Pharmaceuticals |
| • GlaxoSmithKline Pharma Ltd | • S.G. Pharma | • Schrödinger | • Nature Pure Extracts |
| • Shogun Organics | • Loba Chemie | • School of Pharmacy, Kingston University, UK | • Dharmayug Priosciences , |
| • Unichem | • School of Science, NMIMS University | • Microtracers, USA | • ACG World |
| • T. N. Medical College and B.Y.L. Nair Hospital, Mumbai | • Ambernath Organics | • Anshul Life Sciences | • IQGEN-X Pharma Pvt. Ltd. |
| • Aventis Pharma | • Sandu Pharmaceuticals Ltd | • GS Medical College & KEM Hospital | • Blue Cross Laboratories Pvt. Ltd. |
| | | | • Rubicon Research India Pvt. Ltd. |
| | | | • Evonik |

The department conducts "Technical development programs" for industry personnel on -

- Analytical skill development
- Chromatographic techniques (Fundamentals, TLC, GC, HPLC, UHPLC)
- Spectroscopic techniques (UV, IR, NMR-1H, 13C, 2D NMR)
- Mass spectrometric and hyphenated techniques (LC MS/MS, GC MS/MS, HPTLC MS, ICP MS)



Amrut Mody Research Fund (AMRF) was created out of a donation from Unichem Laboratories Ltd by Late Shri A.V. Mody to form the corpus of Amrut Mody Research Fund. The main objective of the Amrut Mody Research Fund is to recognize and encourage research carried out in the field of pharmaceutical and allied sciences in the Bombay College of Pharmacy (BCP) and such other pharmaceutical institutions in India.

Late Shri Amrut V. Mody was a visionary industrialist who believed in good health as a basic human need. He was committed to providing medicines, especially to the economically backward sections of the society. In this endeavor he founded the Unichem Laboratory, one of the few earlier domestic pharmaceutical industries in 1944.

He was also committed to quality professional education and research and was instrumental, along with others in establishing and supporting the BCP. The College was to provide trained man power needed for the pharmaceutical industry and the profession. In this pursuit he established Amrut Mody Research Fund in 1972 at BCP to support research and development activities in pharmaceutical and allied disciplines. Service to society always played an important part in Shri Amrut Mody's life. In recognition of his services Shri Amrut Mody was awarded the Padmabhushan in 1972 by the President of India.



The aims and objectives of the Amrut Mody Research Fund in addition to those mentioned above are:

- To sponsor doctoral and advanced research in pharmaceutical and allied sciences in the form of scholarships and give grants to the faculty to support the research work of scholars of the BCP.
- To provide/support grants for purchase and maintenance of equipments, books and journals and for creation of such other research facilities to foster research and a research environment in the BCP.
- To promote and encourage scholarly activities of the faculty and scholars of the BCP by providing grants for writing scientific books, monographs, review articles, etc.
- To provide partial travel grants/registration fees to attend and present research findings of the faculty and doctoral students of the BCP at international conferences/seminars, etc once in three years.
- To hold seminars, symposia, conferences and exhibitions for promoting research in pharmaceutical and allied sciences in BCP.
- To arrange lectures or lecture series by inviting eminent scientists and professionals from academia and industry from time to time during each academic year. Amrut Mody Research Fund shall support the honorarium, local travel and such other expenses for the conduct of such activities.
- To carry out all such activities as are incidental or conducive to the attainment of the above objectives or any one of them.

The Amrut Mody Research Fund Distinguished Researcher Award was conferred to Dr. M.S. Nagarsenkar in 2012 and Dr. M. N. Saraf in 2015.

At the occasion of the concluding ceremony of the Centennial Birth Anniversary of Padmabhushan Late Shri. Amrut Vithaldas Mody, his bust was unveiled on the foundation day of BCP i.e 28th May 2015.

Some of eminent scientists and professionals from academia and industry who delivered lectures at Bombay College of Pharmacy in recent past:

- Dr. Aditya Das, Consultant at USA & Associated with Cipla
- Dr. Ajaz Hussain, Inside advance & solution LLC
- Dr. Aparna Khanna, Dean, School of Science, NMIMS
- Dr. Archana Krishnan
- Dr. Aruna Khanolkar, Team leader Qbd IPD, Cipla
- Dr. Abhijeet Date, Assistant Prof. Dept. of Pharmaceutical Sciences, The Daniel K. Inouye College of Pharmacy, USA
- Ms. Almas Sayed, PV-SME at Tata Consultancy Pvt. Ltd.
- Dr. Anil Wani, Foundation for Innovation & technology transfer, IIT, Delhi
- Dr. Bettine Boltres, Product Manager Pharmaceutical Tubing SCHOTT AG, Germany
- Chris Freeman, Ametek Brookfield



- Col. Nambiar, RMR Retd.OBL Facilitator
- Dr. Daniel A. Heller, Assistant Member at Memorial Sloan - Kettering & Asst. Prof at Weill Cornell Medical College
- Dr. Dhiren Thakker, Ferguson Distinguished Professor and Associate Dean from UNC Eshelman School of Pharmacy
- Dr. Hari Sharma, University Medical Centre, Amsterdam
- Dr. Kalpana Gandhi
- Dr. Kothari
- Dr. Myke Scoggins, Sr. Principal Scientist, Micromeritics Instrument Corpn USA
- Adv. Manali Chitnis, Intellectual Property Lawyer
- Dr. M.S. Kamath, Hon. Secretary, Consumer Guidance Society of India (CGSI)
- Dr. N. R. Jagannathan, Prof. & HOD of NMR & MRI Facility, AIIMS
- Dr. Nancy Pandita, Prof. in School of Science NMIMS University
- Ms. Neha Pandit Tembe, Nutritionist, Founder, Snack-Right
- Dr. Peter Banks, Scientific Director Bio, Tek Instruments Inc.
- Dr. Prashant Karkar, NMIMS
- Dr. R.P. Iyer, Co-founder of Spring Bank Pharmaceuticals Inc, USA
- Dr. Ramaswamy Iyer, Associate Director Bristol-Meyer Squibb (USA)
- Dr. Rodney JY Ho, Prof. University of Washington
- Dr. Shubhada Chiplunkar, Director-ACTREC
- Dr. Stephen Barton, Kingston University
- Dr. Susan Thomas, NIRRH
- Sarita Singh Rajbhar, Strategic Portfolio Management, CIPLLA Ltd.
- Dr. S J S Flora, Director, NIPER
- Dr. Suraj Shinde, Officer, Learning & Development Dept. Cytel Statistical Software & Services Pvt. Ltd.
- Ms. Swati Dudhale, Learning Links Foundation
- Seminar on Nutraceuticals
- Dr. T.S. Balganesesh, Distinguished Scientist CSIR
- Prof Prasad Bharatam, Dept of Medical Chemistry, NIPER
- Prof. G.N. Sastry
- Prof. Padma Devrajan, ICT
- Prof. Prakash Jha, Central University of Rajasthan
- Prof. Subhash Padhye, ISTR Research Labs. Former HOD of the Dept of Chem University Pune
- Seminar with Royal Society of Chemistry
- Workshop by Mr. Ramandeep Singh, Asst. Manager Technical Services Signet Chemical Corpn Pvt. Ltd.
- Dr. Shashidhar Rao, Rutgers University (USA)
- Dr. Khalid, Duquesne University
- Dr. Glanetti, Duquesne University
- Dr. Rahul Thorat, MVSc Laboratory Animal Facility
- Mr. Abhijit Trimbakkar
- Dr. Siddhivinayak Barve, Dy. Director, The Kelkar Education Trust's Scientific Research Center



The Research Society of Bombay College of Pharmacy (RSBCP):

- RSBCP is a scientific society of pharmacy and related profession established in the year 1981 with one of the mandates of promoting and strengthening the pharmacy profession through research collaborations, management & execution of such research collaborations in association with the Bombay College of Pharmacy (BCP) and its faculty members and students.
- RSBCP is recognized by Department of Scientific and Industrial Research (DSIR)



AIMS AND OBJECTIVES OF THE RSBCP:

- To promote, organize, sponsor, establish, conduct research and encourage advancement of scientific knowledge in pharmaceutical and allied sciences in the BCP
- To increase the quality and efficacy of research outcome and to develop innovation culture in the BCP
- To finance research projects by providing grants for research and supporting infrastructure, instruments and their maintenance
- To endow research fellowships to support and recognize outstanding contributions of individuals and encourage research scholars to pursue studies & research
- To coordinate and manage industrial research collaborations in the BCP
- To assist the teaching and non-teaching staff of the BCP to develop professional skills.

SALIENT FEATURES OF THE RSBCP:

INDUSTRIAL RESEARCH COLLABORATIONS/ PROJECTS & SERVICES

- The RSBCP manages and effectively coordinates number of industrial research collaborations and industrial projects for pharmaceutical and related industries.
- The research projects are executed in the BCP laboratories by the faculty and their student team.
- The main benefit for industry from these academic research collaborations is the access to the research results and innovative methodologies at reduced cost. It is of mutual benefit that the companies offer industrially relevant research problems of their interest to BCP and the faculty and students of the BCP provide the methodology and expertise.
- The RSBCP also caters to industries by providing 'pay as you use' equipment or instrument usage facilities (e.g., Particle size analyzer in μm and nm range, Zeta potential determination).

List of industries for whom research projects have recently been undertaken and consultancy/ services been provided,

- Inventia Healthcare • Panacea Biotech Ltd. • Glenmark • Abbott Laboratories • Marico
- OmniActive Health Technologies • IPCA • Zytex • Enem Nostrum • Shreya Lifesciences • Cipla • GlaxoSmithKline • Ambernath Organics • Sandu Pharmaceuticals • Bristol Myers Squibb • Getz Pharma Research
- Bharat Serum and Vaccines • Evonik Degussa India
- Neon Labs • Piramal Healthcare • Bajaj Healthcare • Naprod Life Sciences • USV
- Vaidya Patankar Pharmacy



• Nerlikar Hospital • Anazeal Analyticals & Research • Gattefosse India • JMB Pharma • Famy Care • Piramal Life Science • Solumics Plantacid Herbaceuticals • Franco-Indian Pharmaceuticals • Cymbiotics Biopharma • Mank Industries • Syngene International • Lamar Group of companies • Ayurchem.

Technology Transfer:

- Technology developed through research at the BCP is made available to industries for further development and commercialization. One recent technology transfer to M/s Saife Vetmed Pvt Ltd was for a novel veterinary formulation for prevention and treatment of bovine mastitis. This technology has been developed in Bombay College of Pharmacy (BCP), in collaboration with Bombay Veterinary College (BVC), Mumbai.
- Another technology transfer to LOBA Chemie Private Ltd. has been done for the synthesis of chiral selector (as mobile phase additive) in enantiomeric separation of several Chiral Active Pharmaceutical Ingredients (APIs), by Reverse Phase High Performance Liquid Chromatography (RP-HPLC) using non-chiral columns. The chiral selector had to be imported from Sigma Aldrich. The BCP team developed a cost effective indigenous method for synthesis of the chiral selector with around 150% reduction in cost. The synthesized chiral selector showed better performance for enantiomeric separation than the commercial imported product.

Research Projects in Collaboration with Foreign Industries:

- Spring Bank Pharmaceuticals, USA for Expressions, Purification and X-ray structure determination of Plasmid RIG-1
- BASF, Germany for Assessment and development of computational methods for predicting which aminoacids in a target protein binding-site are most likely to mutate in order to generate resistance against specific crop protection agents.
- Bristol Myers Squibb Company, NJ, USA for project on design of novel delivery systems, grant received US dollars 5000/- .
- Gattefosse India on exploring role of Gelucires in bioavailability enhancement. The project included formulating tablets containing a drug from BCS class 2 and Gelucires by melt granulation, in-vitro characterisation, scale up and kinetic evaluation in healthy human volunteers. Total grant received at BCP Rs 15,00,0000/.
- Bristol Myer Squibbs, USA through BMS-Blocon -Research Centre to support Ph.D fellowship for project work related to Drug Metabolism.

Infrastructural Development:

- RSBCP provides financial support for infrastructural development necessary for research at BCP, e.g., support for purchase of instruments and accessories and development of laboratories.
- RSBCP has developed Radioimmunoassay (RIA) laboratory. The RIA laboratory has the approval of Atomic Energy Regulatory Board (AERB), Dept. Atomic Energy, Govt. of India. The activities of this laboratory is supervised by AERB authorized Radiation Safety Officers. The RIA laboratory has calibrated radiation detectors (donated by Indian Association of Nuclear Chemistry and Allied Scientists) for assay of gamma ray and beta particle emitting radioisotopes and other equipment to carry out the assays of biological analytes such as rat insulin and estradiol.
- RSBCP welcomes industry sponsorship of laboratories for renovation, upgradation and instrument purchase. Laboratories can also be named to recognize the contribution of the sponsoring industry.



Key personnel:

Mrs. Manjusha Pimplodkar, Senior Manager

(mkrlabs@gmail.com, mkr@bcp.edu.in)

Mrs. Anupama Phadke, Q. A. Manager (Chemical and Instrumentation)

Mrs. Swati Dahibawkar, Assistant Q. A. Manager (Microbiology Department)



About us :

Dr. M. K. Rangnekar Memorial Testing Laboratory was founded on 2nd July 1988 by The Indian Pharmaceutical Association-Maharashtra State Branch`s Bombay College of Pharmacy in the memory of Dr. M. K. Rangnekar, the first commissioner of FDA Maharashtra and past President of IPA-MSB. This is a FDA approved and NABL accredited public testing laboratory complying as per schedule GLP L-1. The Laboratory follows Good Laboratory Practices as specified by the regulatory authorities from time to time.

Infrastructure:

- Trained qualified and competent technical staff
- 21 CFR compliant software for documentation as well as efficient, reliable and accurate reporting
- Work environment to provide high degree of co-ordination
- Specialization in latest analytical techniques
- Excellent standard of service to customers
- EPABX system, CCTV cameras and biometric systems to maintain laboratory discipline, secrecy and confidentiality

Categories of Products Tested:

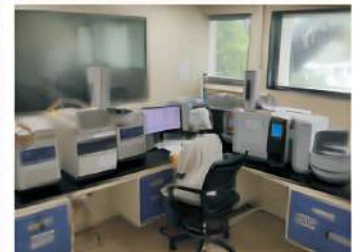
- Analysis of APIs, Excipients and Pharmaceutical Formulations as per IP/BP/USP/ EP or In-house Standards
- Analysis of Cosmetics as per BIS or party's specifications

Services Provided:

- Analytical method development
- Analytical method validation studies
- APIs, Excipients & Finished product analysis as per pharmacopoeia or in-house specifications
- Stability studies

Analysis by using the following instruments:

- HPLC
- GC
- FTIR
- UV-Visible Spectrophotometer
- Dissolution apparatus
- Disintegration apparatus
- Potentiometric titrator
- Karl fischer apparatus for moisture content
- Brookfield's viscometer
- Liquid particulate counter
- Digital polarimeter
- Bacterial Endotoxins test
- Particle size analysis (microscopically)
- UHPLC
- HPTLC
- ICP-MS
- LCMSMS



Microbial analysis:

Sterility testing

- Microbiological assay by cup-plate, cylinder-plate and turbidometric methods
- Effectiveness of Antimicrobial Preservatives
- Microbial Enumeration Tests
- Test for specified microorganisms
- Rideal Walker Coefficient test for disinfectants
- Microbial kill rate study
- Minimum Inhibitory Concentration
- Anti microbial activity
- Water analysis



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Nutraceuticals under Drug and
Pharmaceutical Research Program**

**Research grant of Rs. 5.87 crores
from Department of Science &
Technology (DST), DPRP Scheme**



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ICP MS



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Research Grants from AICTE, DST, UGC, CSIR, ICMR Rs. 10 crores and Rs 1 crore in Research Grants from the Industrial projects and Consultancy during last five years

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in Holistic Nutrition and Clinical Dietetics

Natoli - BCP Institute for Research and Industrial Pharmacy Training (NBIRIPT) is a collaborative project between Natoli Engineering, USA and Bombay College of Pharmacy. The Natoli laboratory at Bombay College of Pharmacy occupies 1100 square feet and includes four processing rooms, a testing laboratory, material storage rooms, and an equipment cleaning area.

The facility is equipped with (i) aV-shell tumble blender from Bowman and Archer, India, (ii) lab-scale granulation and fluid bed processing equipment from Diosna Dierks & Söhne GmbH, Germany (P1-6 granulator and Minilab fluid bed processor), (iii) instrumented tablet compression machines from Natoli Engineering, USA (NP-RD10A analytical press for powder characterization and NP- RD30 rotary compression machine), and (iv) a lab-scale tablet coater from O'Hara Technologies, Canada (O'Hara Labcoat BT system).



The powder and tablet testing laboratory includes instruments from Pharma Test Apparatebau AG, Germany, LabIndia Analytical Instruments Pvt. Ltd., India and Shimadzu Corporation, Japan.



The laboratory conducts demonstrations, practical experiments, hands-on training and educational activities for third year and final year B. Pharm students, including pharmaceuticals practice school sessions. Experiments, as a part of the M. Pharm coursework, and M. Pharm research projects are also carried out in the laboratory. The facility, a valuable resource for pharmaceutical and allied industries, undertakes industrial projects providing preformulation, formulation and process development support.

GUEST LECTURES AT BCP 2025-2026

1. Applications of D2 Labelled Compounds by Dr. Padmanabhan on 07th Feb 2025
2. Interactive Session Panel Doctors Health Camp on campus for staff and student on 21st Feb 2025
3. Lecture Series 2 Radiopharmaceuticals Basics of Positron Emission Tomography PET Scan Bench to Bed by Dr. Sandip Basu, Dr. N. Lakshmi Narayanan, Dr. Basant Malpani and Dr. Arjun Gopalakrishna on 15th Mar 2025
4. Chai Pe Charcha Highly Mentoring Session for Students to Pursue Careers in Management After Pharmacy by Mr. Ashish Babiwale and Dr. Amita Karnik on 19th April 2025
5. Chai Pe Charcha by Dr. Amita Karnik on 21st June 2025
6. National Conference on GMP by Mr. Kaushik Desai on 10th June 2025
7. Memorial Lecture under the aegis of Late Dr. J. N. Banerjee and Late Dr. H. P. Tipnis Endowment by Dr. Mangal Nagarsenkar, Dr. E. C. Coutinho, Dr. M. N. Saraf on 11th July 2025
8. Understanding NMR Core Concepts and Software for NMR Assignment and Interpretation by Dr. Ganesh Chaturbhuj on 18th July 2025
9. Chai Pe Charcha Mentoring and Engagement Program by Dr. Amita Karnik on 19th July 2025
10. Pharmaceutical Regulatory Affairs and Career Opportunities by Ms. Priti Gadhawe on 14th Aug 2025
11. Women's Hygiene and Personality Development by Ms. Lakshmi Mule on 25th Aug 2025
12. Innovations in Pharmaceutical Coating Technology by Mr. Yasar Shaikh and Dr. Shantanu Damle on 12th Sept 2025
13. Schott Poonawalla The Science of Glass in Primary Pharmaceutical Packaging by Ms. Mansi Sheike, Ms. Dipanwita Chakravarty, Mr. Ajith Kumar and Mr. Mahesh Italiya on 4th Oct 2025
14. Visit of Dr. Heni Rachmawati by Dr. Heni Rachmawati on 19th Nov 2025
15. Control Strategies in Common Manufacturing of Drug Products by Dr. Deepak Hegde on 20th Nov 2025
16. Creating Safe and Inclusive Workspaces Awareness on Gender Sensitization, Discrimination and Sexual Harassment by Dr. Rashmi M. Oza on 28th Nov 2025
17. JMP Statistical Discovery Train the Trainer Hands on Workshop by Dr. Muralidhar A on 10th and 11th Dec 2025
18. Menstrual Health and Hygiene by Procter and Gamble by Ms. Aarti on 19th Dec 2025
19. BCP Alumni Association Recent Advances in Amorphous Solid Dispersions by Dr. Sudhakar Garad and Dr. Sapna Makhija Garad on 20th Dec 2025
20. Reimagining Pharmacy Careers in a Rapidly Changing, Competency Oriented World by Dr. Bupendra K Shah on 24th Dec 2025
21. Scientific Talk on Understanding ADME using Physiologically Based Pharmacokinetic Modeling by Dr. Terrance Graham and Dr. Ian S Haworth on 13th Jan 2026
22. Pharmacometrics Applications and Career Options by Mrs. Mokshada on 14th Jan 2026
23. Hot Stage Microscopy Features and Demonstration by Mr. Gyanesh Singh on 23rd Jan 2026
24. Uncertainty in Drug Release and Target Tissue Bioavailability from Engineered Delivery Systems Stochastic Ensembles Supersede ODE PDE Models by Prof. Dr. Amit Misra on 18th Feb 2026

ANNUAL REPORT 2025-26

Institutional Overview and Vision

Bombay College of Pharmacy reaffirms its position as a benchmark institution, distinguished by academic excellence, research leadership, and transformative institutional progress. Guided by a clear vision and sustained by collective dedication, the institution continues to strengthen its foundation in scholarly rigor, innovation-driven research, industry collaboration, and socially responsive education. Each milestone achieved reflects not only measurable growth but also the enduring values of integrity, professionalism, and commitment to advancing pharmaceutical sciences. Through strategic expansion, technological integration, and a deep commitment to holistic student development, the college steadily advances its legacy as a center of excellence in pharmacy education.

Year 2025-2026 has been defined by academic distinction, research intensity, infrastructural transformation, industry integration, and meaningful societal engagement. Our continued pursuit of excellence was proudly recognized when the institution secured the Certificate of Merit – Overall Championship (First Ranking) at 19th Avishkar Inter-Collegiate Research Convention conducted by the University of Mumbai in AY 2025-26. This achievement reflects the scholarly rigor, innovation-driven mindset, and vibrant research culture that defines our institution.

Academic Enrichment and Skill Development

At Bombay College of Pharmacy, education extends beyond classrooms into professional readiness and character building. The Professional Development Program in Digital Health for Pharmacists, inaugurated last annual year, saw 75 students successfully complete the certification. Structured Soft Skills Development Programs strengthened communication, leadership, and critical thinking among our students. A specialized Microsoft Excel Training Program by Navigo Analytix enhanced analytical competencies of Final Year B. Pharm and First Year M. Pharm students essential for pharmaceutical research and industry. Third Year B. Pharm students completed a Certificate Course on Universal Human Values in collaboration with Jeevan Vidya Foundation, reinforcing ethical foundations and responsible professional conduct. Faculty members and research scholars benefited from a two-day ‘Train the Trainer’ workshop on JMP software. Distinguished academicians, alumni and industry leaders enriched our campus through expert lectures and technical interactions. Third year and Final year B. Pharm students actively participated in structured field visits to pharmaceutical industries like Abbot India Pvt Ltd and Associated Capsules Group (ACG), Dahanu, gaining valuable exposure to manufacturing practices and regulatory processes. Our students have demonstrated a strong commitment to continuous learning by successfully completing SWAYAM/NPTEL courses and engaging in specialized workshops to broaden their knowledge and technical expertise.

Research Excellence and Industrial Collaboration

Research continues to be a cornerstone of our institutional identity. During the year, the college secured extramural funding amounting to ₹ 1,04,98,877 from industrial agencies. CSR and alumni contributions totaling ₹72,73,035 enabled modernization of research infrastructure and acquisition of advanced equipment. High-value industry-sponsored projects like Rubicon Research project on Nitrosamine LC-MS/MS analysis exceeding ₹1.63 crores, and an ongoing BRNS-DAE funded project worth ₹47.82 lakhs, underscore our strong research credibility. The Natoli-BCP Institute for Research & Industrial Pharmacy Training (NBIRIPT) further strengthened translational research and industry partnerships with O'Hara Technologies Inc. a leading manufacturer of solid dosage processing equipment, ensuring innovation remains application-oriented. CSR funding of INR 5 lakhs has been received from Sundyota Numandis Ltd for the development of the Pharmacology Research Laboratory.

Scholarly Contributions and Faculty Leadership

Our faculty members demonstrated exemplary academic leadership and scholarly excellence through the publication of over 20 research articles in reputed national and international peer-reviewed journals during the academic year. Their contributions span diverse domains of pharmaceutical sciences, reflecting strong research depth and interdisciplinary engagement. In addition, faculty members authored several book chapters with globally recognized publishers such as CRC Press, Springer, and Elsevier, underscoring the academic credibility and global visibility of their work. These scholarly accomplishments significantly enhance the institution's research profile and reaffirm its commitment to advancing knowledge, innovation, and academic excellence. Faculty filed 3 patents, delivered invited lectures, and contributed actively to academic governance at prestigious platforms. Significant milestones included CSR-supported laboratory development, establishment of a functional *C. elegans* research laboratory, and optimization of HUVEC cell culture systems, reflecting our commitment to advanced biomedical research.

Dr Anuradha Majumdar was awarded prestigious Dr. S. B. Pande Oration Award by the Indian Pharmacological Society at IPSCON Chandigarh (Nov 22, 2025).

Dr. Premlata Ambre was recognized as “2025 Journal of Pharmaceutical Sciences Top Reviewer”, in recognition of her outstanding scholarly contributions and peer-review excellence.

Innovation & Start-Up Ecosystem

Innovation remains a defining pillar of academic growth at Bombay College of Pharmacy, with the institution consistently promoting translational research, entrepreneurship, and technology-driven healthcare solutions. During the academic year, a promising start-up initiative titled Tailor Dose emerged as a significant milestone, focusing on the development of personalized nutraceutical formulations using advanced 3D printing technology. This pioneering approach enables customization of dosage forms tailored to individual nutritional requirements, reflecting a progressive shift toward precision nutrition and patient-centric healthcare.

The integration of 3D printing in nutraceutical development exemplifies the institute's forward-looking vision and commitment to emerging pharmaceutical technologies. Further strengthening its innovation and commercialization ecosystem, the institution successfully translated research into a market-ready product through collaboration with Saife Vetmed Pvt. Ltd. for the development of a nano silver-based in-situ skin gel kit for animal wound care. Developed by the Pharmaceutics Department under Professor Mala Menon in association with Bombay Veterinary College and Dr. Abdul Samad, the dual-spray system—comprising One Vs (cross-linker solution) and Two Vs (polymeric dispersion containing nano silver)—forms a protective barrier upon application, enabling single-time dressing and effective management of surgical, non-surgical, and infectious wounds, particularly large and hard-to-reach wounds in animals. Commercially launched in the global market in February 2025, this achievement underscores the institution's commitment to converting academic research into impactful, real-world healthcare innovations and reinforces its growing ecosystem of research commercialization and technology-enabled pharmaceutical advancement.

Student Achievements and Academic Distinction

Our students, who are our greatest ambassadors, have earned numerous accolades in academic as well as extracurricular arenas, exemplifying their holistic development and competitive spirit. The project 'Creatinometer™' by M.Pharm students Mr Sanket Gulbhile and Ms Varsha Chabria won the Gold Medal at the 20th Avishkar PG Level at the University of Mumbai. Mr. Aryan Walekar, T.Y. B. PHARM student, received 3rd prize at Avishkar and West Zone Anveshan Student Research Convention. Numerous students represented the institution at national and international conferences, presenting innovative research and earning accolades. Avinash Barchha, PhD student of Prof. Krishnapriya Mohanraj and Prof Mangal Nagarsenkar, won first prize for presentation under PhD category at the 2nd MET-I-CON 2026 International Conference.

Mr Saurabh Katawale, Ms Harshali Dhaygude and Mr Girish Gurbani successfully defended their thesis and were awarded PhD degree by Mumbai University.

The institute actively supports professional student chapters such as ACS, ISPOR, and AAPS, providing platforms for academic engagement and global professional networking. Through technical events, seminars, competitions, and collaborative initiatives, these chapters foster leadership, research orientation, and industry awareness among students. Various student-driven clubs, including the Music Club and Marathi Vangmay Mandal, actively nurture cultural expression, creativity, and literary engagement, contributing to the holistic development of our students.

The ACS Student Chapter of Bombay College of Pharmacy received the Commendable and Green Chemistry Award for the academic year 2023–2024, in recognition of its dedication to chemistry and community engagement, with the award being formally presented in May 2025.

Placements and Higher Studies Progression

The graduating cohort of 2024–2025 demonstrated commendable career progression. Among 40 M.Pharm graduates, 13 secured placements, reflecting a 32.5% placement rate, with the highest package of ₹8 lakhs per annum at Novartis, where an internship transitioned into full-time employment. Other esteemed recruiters included Macleods Pharmaceuticals, Rubicon Research, and Thermo Fisher Scientific. At the undergraduate level, out of 94 B. Pharm graduates, 13 secured placements, while approximately 53% pursued higher studies at premier institutions across the country. 10 B.Pharm students qualified highly competitive NIPER entrance examination and 12 students qualified for the GPAT examination, reflecting their strong academic preparation and competitive excellence. Mr. Manas Mahale earned the prestigious Erasmus Mundus Fellowship for his postgraduate education.

These outcomes reaffirm our balanced emphasis on industry readiness and academic advancement.

Infrastructure Modernization and Digital Advancement

During the academic year 2025–2026, Bombay College of Pharmacy strengthened its academic infrastructure by introducing two divisions for each year of the B. Pharm program, ensuring systematic expansion and improved learning access. To further enhance technology-enabled teaching, additional smartboards were installed across classrooms, supplementing the existing digital infrastructure and promoting interactive, student-centric learning. The Machine Room of the Department of Pharmaceutics is presently being renovated to upgrade training facilities and strengthen hands-on industrial exposure for students.

Human Resource Strengthening.

The academic year witnessed the induction of several faculty members including Dr. Anagha Raut, Dr. Archana Naik, Dr. Tripti Sharma, Ms. Khusboo Begwani, Ms. Mayuri Padhye, Ms. Pragati Gurav, Dr. Pooja Yadav, Ms. Pranita Bhangare, Mr. Chand Bhasha, Dr. Pankti Ganatra, and Mr. Ramkishen Jatoth across various departments, strengthening our intellectual capital and interdisciplinary expertise. Administrative and laboratory support was further strengthened by the appointment of Mr. Balram Khandare, Mr. Satish Shinde, Ms. Riddhi Dsouza, Mr. Manjunath Sherkhane, Mr. Yashwant Achrekar, and Mr. Yogesh Patil, enhancing institutional efficiency and operational excellence.

Student Development and Social Responsibility

Demonstrating a strong commitment to holistic and socially responsive education, the institution proudly established the National Service Scheme (NSS) and the Department of Lifelong Learning and Extension (DLLE), University of Mumbai in 2025 under the dynamic coordination of Dr. Tripti Sharma. These initiatives have become powerful platforms for experiential learning beyond the classroom, enabling students to actively engage in health camps, environmental sustainability drives, and impactful community outreach programs. Through these structured extension activities, students not only contribute meaningfully to society but also cultivate leadership, civic awareness, empathy, teamwork, and a deep sense of social responsibility.

By integrating community engagement with professional education, the institution ensures the development of competent, compassionate, and ethically grounded healthcare professionals, fully prepared to serve society with sensitivity and integrity. We are proud to mention that Ms. Vaidehi Kashid (First Year B.Pharm) achieved distinction by winning the Gold Medal in Creative Writing at the Mumbai University DLLE Udaan Festival Mega Finals, thereby bringing laurels to the institution.

Alumni Engagement: Strengthening Bonds, Inspiring Innovation, Building the Future

The alumni of Bombay College of Pharmacy remain one of the institution's greatest pillars of strength. Their achievements across academia, pharmaceutical industries, regulatory bodies, healthcare institutions, and entrepreneurial ventures continue to elevate the legacy of BCP on national and global platforms. Through mentorship initiatives, research collaborations, entrepreneurial ventures, guest lectures, and philanthropic engagement, BCP's alumni network continues to play a pivotal role in advancing the institution's vision of global leadership in pharmaceutical education, research, and innovation. An amount of Rs. 55 lakhs was received this academic year from our alumnus Dr Ashok Nigalaye of the first B. Pharm batch as "Dr. Ashok & Alka Nigalaye Endowment in honor of Mrs. Asha Shital Patravali and Prof. H.L. Bhalla" for the Equipment Purchase & Maintenance Fund. The academic year was marked by a historic milestone – the 50th Golden Jubilee Celebration of 1974-77 and 1975-78 batches, held on 21st February 2026. The event brought together alumni spanning five decades, reaffirming their enduring bond with the institution. The celebration was a confluence of reflection, recognition, and renewed institutional partnership. Distinguished alumni shared their journeys, acknowledging the academic foundation and mentorship received at BCP that shaped their professional trajectories. The Golden Jubilee year witnessed transformational philanthropic commitments:

- Dr. Umesh Shukla announced a visionary endowment of ₹1 Crore, structured as ₹10 Lakhs annually over 10 years, dedicated towards equipment purchase and maintenance to modernize advanced analytical and research facilities.
- Dr. Nandini Krishnamurthi generously contributed ₹5 Lakhs as a token of acknowledgement of the college's significant contribution to her distinguished professional career.

The Way Forward

As Bombay College of Pharmacy advances in its distinguished journey, our focus remains steadfast – to transition from excellence to global leadership. We are committed to strengthening translational research, expanding international collaborations, deepening industry integration, and fostering a dynamic innovation and start-up ecosystem aligned with emerging pharmaceutical technologies. With continued investment in advanced infrastructure, digital integration, and ethical leadership development, we aim to nurture globally competent, socially responsible pharmacy professionals prepared to address evolving healthcare challenges.

With collective vision and unwavering commitment, Bombay College of Pharmacy will not merely respond to the future – it will help define it.

KUDOS TO BCP

- **Dr. Krishnapriya Mohanraj, Dr. Mangal Nagarsenker**, Mr. Avinash Barcchha, won the 1st Prize for Poster and Oral Presentation under the Ph.D. Category for their paper titled “Design, Development and Evaluation of Voriconazole Pessaries for Local Treatment of Vaginal Candidiasis.” nuary 2026.
- **Dr. Krishnapriya Mohanraj** has been elected as the Global Scientific Chair- Dissolution Research Presentations International (DRPI) – a young researcher competition on dissolution related theme across 5 regions of the world organized by Society of Pharmaceutical Dissolution Science (SPDS), for 3 years. (2024-2027).
- **Dr. Anuradha Majumdar** is the Hon’ Editor, Pharma Times (Oct 2024- Sept 2026), Official publication of Indian Pharmaceutical Association (IPA).
- **Dr Anuradha Majumdar** was awarded prestigious Dr. S. B. Pande Oration Award by the Indian Pharmacological Society at IPSCON Chandigarh (Nov 22, 2025).
- **Dr. Premlata Ambre** has been Appointed as Editorial Advisory Board (EAB) for the Elsevier Journal of Pharmaceutical Sci® for a three-year term (January 1, 2025-December 31, 2027).

IPA-MSB SF achievements:

- Bombay College of Pharmacy got 2nd runner up for Best College 2024- 2025.
- Jay Dave received the 1st prize in Gully Boy/Rap Competition.
- Bombay College of Pharmacy was the winner of the Best Cultural Trophy.
- Bombay College of Pharmacy got 2nd Runner up for the Best Editorial Trophy.
- Yash Bhosale & Serena David won 1st prize in Duet Singing at Rx.
- Bombay College of Pharmacy secured the 1st Runner up for the Best Sports trophy.
- Bombay College of Pharmacy got 2nd runner up for PHO shield.
- Rukmin Patwardhan won 1st prize in Solo Singing at Rx.
- Bombay College of Pharmacy got 2nd runner up for Best Innovative Campaign.
- Bombay College of Pharmacy got 2nd runner up for Best Public Health Service Drive

KUDOS TO BCP

- 1. Dhruv Gandhi, L.Y. B. PHARM student** co-authored a review article on ‘A COMPREHENSIVE REVIEW ON HERBAL DRUGS ACTING ON FATTY LIVER DISEASE’
- 2. Vaidehi Kashid, F.Y. B. PHARM student** received a Gold in the Mega finals of the Udaan Festival in the creative writing category
- 3. Jay Dave, L.Y. B. PHARM student** received 1st prize in OPEN MIC at ICT MANZAR 2025
- 4. Vaidehi Ajgaonkar, F.Y. B. PHARM student** received 4th prize in Poster Making Competition, at DLLE Udaan festival 2025-26
- 5. Malhar Galande, T.Y. B. PHARM student** secured 1st Place in Boardroom Battles at E-Summit'25 IIT DHARWAD
- 6. Roshni Irani, Aishwarya Kapur, Kreeti Maurya, Krisha Pipraiya, Swagata Gaikwad, Shravani Hawale,** our football theme 1st in Rx Intercollegiate Rink Football 2025-26
- 7. Harshal Kore, T.Y. B. PHARM student** secured 1st runner up in the Tremor event, (Management Category) at Hinduja College of Commerce
- 8. Sneha Jain, Ritanshee Gangele, Dhanashri Jadhav & Rukaiyya Malik, S.Y. B. PHARM students** secured 3rd rank in Scientific poster presentation (Drug Discovery Category) at Rx Techfest
- 9. Aditya Meshram, L.Y. B. PHARM student** made Bombay College of Pharmacy's First ever Manga Series Featuring Scientific Discoveries and Information on Diseases in an Engaging One-Shot Manga Format.
- 10. Aryan Walekar, T.Y. B. PHARM student** received 3rd prize at Avishkar: Inter-collegiate / Institute / Department Research Convention 2025.
- 11. Varsha Chhabria & Sanket Gulbhile, S.Y. M. PHARM students** secured 1st rank at at Avishkar: Inter-collegiate / Institute / Department Research Convention 2025.
- 12. Yash Bhosale, Ayush Madan, Rukmin Patwardhan, Arya More, Saakshi Sarma** from the Music Club of BCP won the 1st prize at Paradox in a band event held at Xavier's College of Engineering.
- 13. Mohit Gulhane, T.Y. B. PHARM student** has the following achievements in Aesthetica
 - 1st position in Landscape Painting
 - 3rd position in Mural Art
- 14. Dhanashri Jadhav, S.Y. B. PHARM student** secured a 2nd rank in Nukkad Natak at RX fest

PATENTS AND TRADEMARKS

- **Dr. Vaishali Shirsat** filed for the Indian patent “Herbal Composition for Treatment of Wound Healing” which was granted on 30/04/2025.
- **Dr. Anuradha Majumdar** filed for the patent “Topical Eutectic Composition: For inflammatory conditions”
- **Dr. Anuradha Majumdar** filed for the patent “Iontophoretic System: Transdermal delivery of methotrexate gel”, Hearing scheduled for March 3, 2026.

PUBLICATIONS FROM BCP

- **Dr. Krishnapriya Mohanraj**, Aditya Anil Kulkarni, published a research review article on “Development and Validation of an LC–MS/ MS Method for Quantification of Paracetamol and Camylofin in Human Serum” in the “*Future Journal of Pharmaceutical Sciences*”, (2025)
- **Dr. Ujwala Shinde, Dr. Mangal Nagarsenkar**, Katawale S, Tank S, Dhaygude H, Holm R, Shah S, Shidhaye S, Joshi G, Warawdekar U, authored research publication on “Systemic Delivery of Sorafenib Tosylate Loaded LeciPlex®: A Comparative Assessment of Nano Assembly, Biocompatibility, and In Vivo Drug Disposition”, *Journal of Drug Delivery Science and Technology*, April 2025.
- **Dr. Ujwala Shinde, Dr. Mangal Nagarsenkar**, Dhaygude H, Katawale S, Tank S, Holm R, Shah S, Shidhaye S, authored a research publication on “A comparison of charged and uncharged stabilizers on the loading of hydrophilic low and high molecular weight synthetic charged molecules in the LeciPlex® system”. *Journal of Drug Delivery Science and Technology*, September 2025.
- **Dr. Ujwala Shinde, Dr. Mala Menon**, Savla H, Gupta P, Kulkarni S, Singh P, Vaidya S, Mumbarkar S, Ghag Sawant M, Tee SK, Dalvi M, authored research publication on “Dectin-1 Receptor-Targeted β -Glucan Microparticles as Dry Powder Inhalation System–A Novel Strategy to Improve Lung Pharmacokinetics of Rifampicin.” *Journal of Drug Targeting*, November 2025.
- **Dr. Anuradha Majumdar**, et al. authored research publication on "Efficacy and safety evaluation of Boswellia serrata and Curcuma longa extract... in chronic lower back pain.", 2025.
- **Dr. Anuradha Majumdar**, Dongre P, published a research review article on "Targeting Mitochondrial Biogenesis: Chandraprabha Vati in the Management of Metabolic Syndrome.", 2025.

PUBLICATIONS FROM BCP

- **Dr. Vaishali Shirsat**, Gaurav Tiwaria, Poonam Desaleb, Sandesh Karale published research review article on “Critical perspectives on nanoparticle-enabled radiopharmaceuticals: Integrating molecular imaging, targeted therapy, and theranostic translation”, December 2025.
- **Dr. Vaishali Shirsat**, Gaurav Tiwari, Monisha Gupta, Ruchi Tiwari, Vivek Tewar3, Vadivelan Ramchandran published research review article on “Chitosan in Drug Delivery Systems and Tissue Engineering: Versatile Prospects”; Pharmacognosy Research, Vol 18, Issue 1, Jan-Mar 2026.
- **Dr. Vaishali Shirsat**, Pratiksha More, Ayush Jaiswal, Madhur Kulkarni published research review article Carboxymethyl Ethyl Cellulose-based solid dispersions: A promising approach to enhance the dissolution and oral bioavailability of Itraconazole; Journal of Pharmaceutical Innovation, 21, 150 (2026).
- **Dr. Premlata Ambre, Dr. Ujwala Shinde**, Dubey, V. S.; Jagtap, M. B.; Savla, H. M.; published research review article on “Comprehensive Physicochemical Analysis of Ferric Carboxymaltose Products Marketed in India”. Int. J. Res. Med. Sci., 2025.
- **Dr. Premlata Ambre**, Gupta, M. N.; Pawar, A.; published research review article on “Therapeutic Applications of Protein-Based Hydrogels: Opportunities and Challenges”. J. Pharm. Sci., 2025.
- **Dr. Premlata Ambre**, Gupta, M. N.; Kudtarkar, P.; Pawar, A.; published research review article on “Importance of Marker Molecules in Designing Sensors and Theranostic Devices for Chronic Wound Care”. Mol. Pharmaceutics, 2025.
- **Dr. Alka Mukne**, Narayana DB published a research article on "Reporting negative Ames test results for Indian Acorus calamus L., rhizome, extracts, and beta-asarone." in the journal "Indian J Pharmacol" 2025.
- **Dr. Alka Mukne**, Sifan Hu, Vandana Patravale, Pradeep Behera, Krishnarajan Bangarurajan, Esmerald Hermans, Jennifer Walsh and Smita Salunke published an article on "Accelerating safer administration of medicines to children in low resource settings – bridging stakeholder viewpoints." in the journal "RSC Pharmaceutics" 2025.
- **Dr. Clara Fernandes**, Lalitkumar K. Vora Nimeet Desai, Deepak Sahel, Bhakti Kubal, Humzah Postwala, Yesha Shah, Vivek P Chavda, Dharmendra K. Khatri published review article on “Role of the Extracellular Matrix in Cancer: Insights into Tumor Progression and Therapy”, January 2025.
- **Dr. Clara Fernandes**, Priyanka Prabhu, Divya Soares published a book chapter on “Nanosensors in Healthcare - Design, Applications, and Regulatory Aspects” October 2025.

PUBLICATIONS FROM BCP

- **Dr. Clara Fernandes**, Poorva Ambre, Bindu Kumari N. Yadav published research article on “Development and Characteristic of Barley Stach Nanoformulation of Folic Acid using Mild Alkali Hydrolysis Technique”; Journal of Biomaterials Science, Polymer Edition, November 2025.
- **Dr. Tripti Sharma**, Padhy I, Biswas A, Nayak C, published a book chapter on “Rational design of peptides and protein molecules in drug discovery” in the book “Computational Methods for Rational Drug Design”. 2025
- **Dr. Tripti Sharma**, Padhy I, Saha A, published a book chapter on “Bioinformatics approaches for the validation of functional analysis of 3D cancer models” in the book “3D Bioprinting in Cancer”. 2025.
- **Dr. Tripti Sharma**, Das NR, Behera SA, Krishna PK, Achary PG, published a book chapter on “Machine Learning Algorithms, Tools, and Databases for Applications in Materials Science.” in the book “Materials Informatics II: Software Tools and Databases”, March 2025.
- **Dr. Harita Desai**, Gaurav Bhave, Sakshi Jaiswal authored research publication on “Synergistic Pulmonary Delivery via Cocrystal Based Dry Powder Inhaler: Theophylline and Glycopyrronium Bromide Combination”, Indian Journal of Novel Drug Delivery, April 2025.
- **Dr. Harita Desai**, Pranav Shah, Vikas Sawant, Rashmi Singh authored research publication on “Design and Preliminary In vitro Investigation on Core Shell Nanoparticles Laden in Situ Gel for Corneal Neovascularization, Current pharmaceutical biotechnology”, May 2025.
- **Dr. Harita Desai**, H., Gulhane, N., Bhave, G. et al. authored research publication on “Mesalamine and Ascorbic Acid Drug-Drug Cocrystal-Loaded Suppositories: A Co-administrative Approach for Localized Treatment of Ulcerative Colitis”. J Pharm Innov 20, 278, October 2025.
- **Dr. Harita Desai**, Amol D Gholap, Pankaj R Khuspe, Norma L Rebello, Meeta N Jain, Prabhanjan Giram, Upconversion nanoparticles for drug and gene delivery, In Book Upconversion Nanoparticles for Biomedical Applications, Woodhead Publishing, 2025.
- **Dr. Harita Desai**, Amol D Gholap, Pankaj R Khuspe, Norma L Rebello, Meeta N Jain, Prabhanjan Giram, published a book chapter in “Photon-avalanching nanoparticles for biomedical applications”, In Book “Upconversion Nanoparticles for Biomedical Applications”, January 2026

INVITED LECTURES AND WORKSHOPS

- **Dr. Krishnapriya Mohanraj** delivered invited lecture on “Magic of LC-MS/MS” on 9th January 2025 for Pradhan Mantri Uchcharat Shiksha Abhiyan (PM-USHA) sponsored one week Faculty Development Program on "Advances in Pharmaceutical Sciences" from 6th to 11th January 2025 organized by SNDT Women’s University and C U Shah College of Pharmacy.
- **Dr. Krishnapriya Mohanraj** delivered invited lecture on “Synergising Chemistry and Analysis across facets of Drug Discovery, Chiral Separation, Impurity Profiling, Bioanalysis, PCID Characterization and NDSRI Quantification” on 20th March 2025 at Women in STEM as a part of Women’s Day Celebration organized by Dr. Reddy’s Laboratories Ltd., Hyderabad.
- **Dr. Krishnapriya Mohanraj** was Resource Person & delivered an invited lecture on “Upskilling Pharmacy Educators in Conceptual Learning Pedagogy” on 31st January 2026 at the 5 days International Virtual Faculty Development Program (eFDP) on “Professional Upskilling for Pharmacy Educators in New-Age Specializations” organized by Chettinad School of Pharmaceutical Sciences, Chettinad Academy of Research and Education (CARE), Chennai in association with Apollo Institute of Pharmaceutical Sciences (AIPS), The Apollo University, Chittoor, Andhra Pradesh & Indian Pharmacy Graduates’ Association (IPGA), Tamil nadu Branch from 27th to 31st January 2026.
- **Dr. Krishnapriya Mohanraj** was guest speaker for students of first and second-year B. Pharm students at Amity University in collaboration with Amity Institute of Pharmacy, Mumbai on the topic "Insight into Application of Fundamentals of Chemistry and Analysis in the Journey of a Drug" on 16th Feb 2026.
- **Dr. Premlata Ambre** delivered a guest lecture for PG students at Oriental College of Pharmacy, Sanpada, Navi Mumbai on “Polymer Fundamentals and Smart Green Nanomaterials: Applications in Healthcare and Environmental Remediation” on 30th December 2025.

BCP - ALUMNI SPEAKS



Once a part of BCP, always a part of its legacy!

Working on Credence once and now writing a note for it as an alumna feels special and deeply nostalgic. It brings back a wave of memories from my undergraduate days at BCP, especially my journey as Cultural Secretary during Resonance: Nakshatra (2022-23)

From organizing my first Mehendi competition to witnessing the energy of Junk Jamming, every moment was filled with learning, responsibility, and growth. The sudden decisions, the challenges of standing by rules, the competition, and yet seeing people come together with the pure intention of supporting and uplifting one another, these experiences shaped me in ways I will always cherish. Truly, these are the days that stay with you forever.

Today, seeing the current council announce events through creative reels, unique ideas, and seamless transitions fills me with immense pride. The innovation, presentation, and energy you bring reflect how beautifully the council is growing and evolving with time.

A small note to the leaders: Keep your teams united, communicate openly, and lead with sincerity and heart. The true essence of the council lies not just in organizing events, but in building connections and creating impact together.

Wishing you all the very best. I am certain that Resonance and all upcoming initiatives will be truly memorable and successful.

Yours sincerely,

Siddhi Devkate - Master's Student at Creighton University, NE, USA

BCP Alumni 2020-24

Former Cultural Secretary (SC 2022-23)

POETRY SECTION

ALTRUISTIC SHADOWS

I walk among shadows, nameless, unseen,
A flicker of light where the world's been mean.
No ties to hold me, no roots in the ground,
I mend what's broken, then don't stick around.

I give my hand when the world looks away,
But never ask anyone to beg me to stay.
No claims, no chains, no promises made,
Just quiet goodbyes in the edges of shade.

They'll forget my face, but maybe not my deed,
I water the wilted, then vanish like seed.
No applause, no thanks, no warm home to call—
Just a silent echo, who answers the fall.

I am no one's, and no one is mine,
Yet I keep giving like stars always shine.
Not for love, not for pride, not to be known—
But because I know pain, and I've walked alone.

~ **Manasi Pawar**
S.Y.BPharm

HEAVENS!

Heavens! Oh heavens! I talked one day
Will this agony end someday
Fathoming my existence I felt a ache.
Heavens! Oh heavens! Will this fall end at a ghostly stake.

Heavens! Oh heavens! The autumn leaves at its rustling
stage
Will roses ever bloom in this cage
The skies also ask for its purpose today,
Heavens! Oh heavens! Will this deep end lead to a scorching
day.

The mountains mourn listening to my tale of anguish
Heavens! Oh heavens! Will destiny ever take me to the
moon's embrace
The universe calls for a glistening ray
Heavens! Oh heavens! Will I ever get a striking role in this
play.

Pretentions and pretentions in every stage
Heavens! Oh heavens! Will my sorrow end in rage.
Lying on the gray the cover soaks me wet
Heavens! Oh heavens! Will I ever rise from this grave.
Taking me in the ocean waves
Heavens! Oh heavens! The waters ask me will...

~ **Ananya Vani**
S.Y.BPharm

POETRY SECTION

मृत्युंजय

हर किरदार की एक कहानी है।
हर कहानी के कुछ किरदार हैं।
उसमें से एक किरदार कर्ण है,
और कहानी महाभारत जैसी स्वर्ण है।

कहानी की शुरुआत होती सारीपाट से,
शतकों में कौरव और पांडव भी पाँच थे।
कहानी की जड़ ही साम, दाम, दंड, भेद है,
कान्हा के हाथों में फाँसे ये खेल थे।
इधर ना कोई अपना सगा, ना कोई अपना मित्र है,
जिस मिट्टी के कण-कण में कर्ण है, वो किरदार कुरुक्षेत्र है।

गंगा माँ का लाड़ला जो, और सूर्य की संतान वो,
सूत ना क्षत्रिय है जिससे था अंजान वो।
सगे खून से हारना क्या होता है, ये जाकर उससे पूछ लो।
हक माँगने गया था मैं, कहते हैं श्रापों की तुम भीख लो।
महाभारत के पेड़ पर जैसा सुनहरा पर्ण है,
उसके जैसा ना दूजा कोई, नाम उसका कर्ण है।
चाहे सूत हूँ या क्षत्रिय, मुझे लड़ने का पूरा हक है।
श्रापों से घिरा, वचनों में बंधा,
ना जाने कैसा ये सबक है।

हाँ, मानता हूँ मैंने गलत का साथ दे दिया,
गलती तो सबने की थी, फिर भी मैं ज्यादा गलत हो गया।
ये कहानी धर्म की अधर्म से थी ही नहीं,
कर्ण की जिंदगी किसी ने जी ही नहीं।

यही नहीं, वो दानवीर कहलाता,
भगवानों को भी दान में जान आज तक किसी ने दी नहीं।
मरा हूँ मैं, मेरी हड्डियाँ गली हैं,
आज भी कुरुक्षेत्र में मेरी साँसें चली हैं।
हारा हूँ मैं लेकिन फिर भी मैं मृत्युंजय,
कर्म के ऊपर कोई नहीं होता – यही धर्म की विजय!



~ Kunal Suryavanshi
L.Y.BPharm

POETRY SECTION

इस कविता का संदर्भ :

वृद्धावस्था में एक पति पत्नी है जो पहले आपने युगल अवस्था में प्रेमी थे। उनकी शादी हुई, अब बूढ़े हो चुके हैं।
एक शाम नदी के किनारे बैठे हुए थे पत्नी के मन में सवाल आया उसने अपने पति से पूछा कि,
मैंने तुम्हारे लिए क्या किया?

अक्सर यह सवाल पति-पत्नी से पूछता है या पत्नी पति -पूछती है,
कि तुमने मेरे लिए क्या किया?

यह सवाल सुनकर पति की आँखों में आँसू आ गए , और उसने अपने भावनाओं को एक कविता के रूप में व्यक्त करते हुए अपनी पत्नी को कुछ
पंक्तियाँ कहीं

तुम

तुमने मेरी ज़िंदगी को नया सवेरा दिया,
अकेला हो गया था सहारा दिया।
मेरी दुबती हुई कशती को किनारा दिया,

मुझे लाडने का सामर्थ्य दिया।
मेरी ज़िंदगी को नया सवेरा दिया।

अंधेरे में घिर चुका था
अनंत अंधकार में,
तारों की रोशनी से चमक के
मेरी ज़िंदगी को नया आयाम दिया।

मेरी शक्ति बनके मेरा साथ दिया
मेरी ज़िंदगी को नया सवेरा दिया।

तुमने मेरे संघर्ष को , मेरे जीवन
को नया राह दिया,
अनंत काल तक मेरे होने का
वादा किया,

तुमने इस प्रेम को शाश्वत किया,
मेरे बिखरे हुए सपनों को उड़ान दिया।
मुझसे लड़ के मेरा साथ दिया,
तुमने हमारी ज़िंदगी को नया सवेरा दिया।

इस काल रेखा से दूर रह कर,
पुनर्जन्म का इंतज़ार होगा,
उसमें भी तेरा साथ होगा...
उसमें भी तेरा साथ होगा....
उसमें भी तेरा साथ होगा.....।



~ **Abhijay Singh**
F.Y. BPharm

SCIENTIFIC ARTICLES

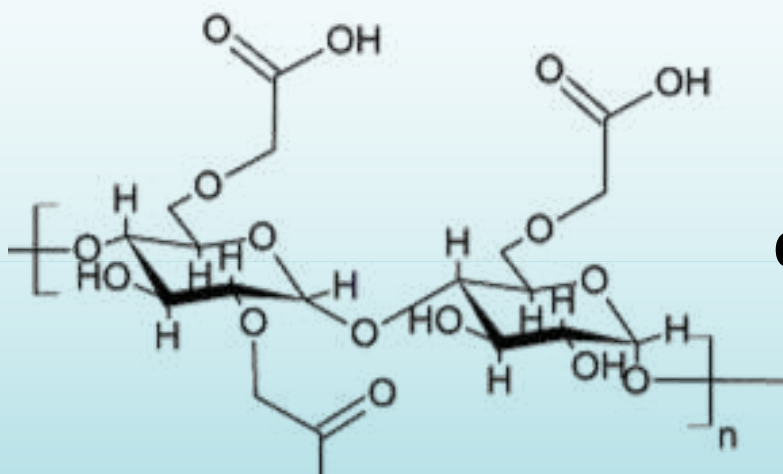
CARBOXYMETHYL STARCH IN CONVENTIONAL SOLID DOSAGE FORMS

INTRODUCTION:

Starch is a natural polysaccharide produced by plants and is recognized as a renewable, abundant, and cost-effective biopolymer for industrial applications. It is derived from a variety of plant sources such as corn, wheat, potatoes, and cassava and has served as a common excipient (filler, binder, and disintegrant) for oral solid dosage forms within the pharmaceutical industry for many decades. However, the use of native starch in the formulation of modern, high-performance drug delivery systems has been limited by many of the physicochemical deficiencies associated with native starch as it exists today. The article covers many different uses of CMS, such as its primary use as a super-disintegrant in immediate release solid dosage forms (Sodium Starch Glycolate) and also its use as a binder/thickener/stabilizer in many different types of formulations. The article primarily focuses on describing the mechanisms for rapid disintegration of tablets; specifically, it describes how these mechanisms act together to produce tablet fragmentation through the interaction of swelling and electrostatic repulsion.

CARBOXYMETHYL STARCH IN CONVENTIONAL SOLID DOSAGE FORMS

Carboxymethyl Starch is commonly used in the pharmaceutical industry as a solid dosage form. The properties of Carboxymethyl Starch can be engineered for either immediate release of the active ingredient or prolonged, controlled release of the active ingredient. The ability to achieve this dual function is indicative of the versatility of Carboxymethyl Starch and is based on one structural element that is key to this versatility - the ability to form cross-links.



CMS

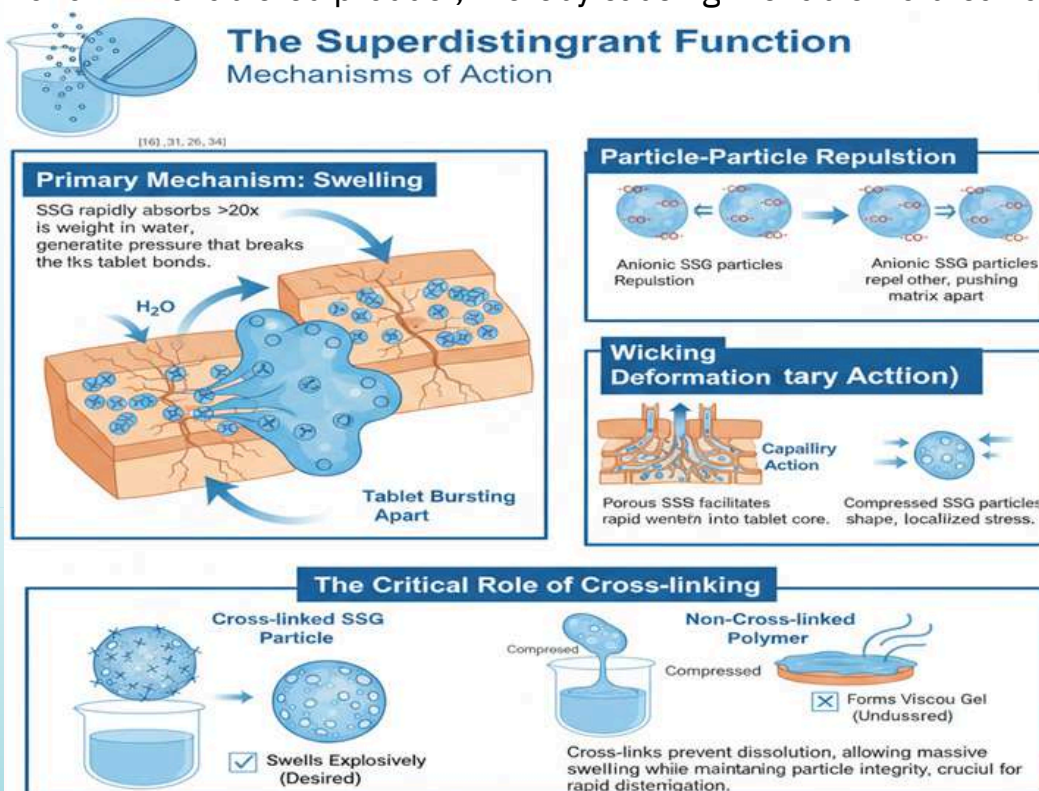
SCIENTIFIC ARTICLES

CARBOXYMETHYL STARCH IN CONVENTIONAL SOLID DOSAGE FORMS

THE SUPERDISINTEGRANT FUNCTION: MECHANISMS OF ACTION

When CMS is chemically cross-linked, it is referred to as Sodium Starch Glycolate (SSG) in the Pharmacopoeia. SSG is a leading example of a super disintegrant - a category of agents designed to rapidly break apart tablets/capsules into smaller pieces after they have entered into aqueous solutions. The significant increase in the total surface area of dissolved drug available for absorption caused by the rapid disintegration of the drug products (typically a barrier to absorption) increases the potential rate of dissolution. SSG is highly effective when utilized at relatively low concentrations (usually between 2-8%), depending on the particular formulation of the drug product. It should be noted that SSG disintegrates by an array of mechanisms rather than through a single mechanism; all of these mechanisms are dependent upon the synergistic interaction between numerous forces.

Swelling as a Primary Mechanism of Action: The primary action of SSG is based on the property of swelling that occurs when it interacts with water. The swelling occurs at a very fast rate and grows to an enormous size, due to the polymer cross-links that allow for the absorption of several times its weight in water (up to 20 times its weight). As the SSG particles swell excessively and rapidly, the volume of the SSG significantly increases the internal hydrostatic pressure of the compact tablet matrix. This high level of internal hydrostatic pressure serves as a mechanical force to break the cohesive bonds created between the raw materials that were compressed to form the tableted product, thereby causing the tablet to break apart.



SCIENTIFIC ARTICLES

CARBOXYMETHYL STARCH IN CONVENTIONAL SOLID DOSAGE FORMS

·**Secondary Mechanisms:** As previously stated, swelling is the main mechanism responsible for disintegration; however, there are mechanisms that work together with swelling to improve both rate and efficiency of the disintegration process:

·**Particle-Particle Repulsion** - Due to the fact that SSG is an anionic polyelectrolyte, when in the neutral pH of the GI tract, the carboxymethyles ($-\text{COO}^-$) at the ends of the polymer chains on the SSG will ionize creating a very high concentration of negatively charged molecules on adjacent SSG particles. This large concentration of negatively charged molecules creates a strong repulsive force between like charged particles which provides a third disruptive force which will help push apart the tablet matrix. This additional force is additive to the physical pressure created by swelling.

·**Wicking (Capillary Action)** - Due to the porous, particulate structure of SSG, water enters the core of the compressed tablet very rapidly by means of capillary action. Wicking serves to quickly hydrate disintegrant particles that are dispersed throughout the tablet matrix and thus enable the mechanisms for swelling and repulsion to occur rapidly and in a uniform manner

·**Deformation Recovery** - Although not to as great an extent, the elastic deformation recovery of deformed and compressed SSG particles once wet also adds to the disintegration of the tablet by producing localized stresses to the tablet structure.

The Critical Role of Cross-linking: The presence of chemical cross-links is the pivotal structural feature that enables the superdisintegrant function. These cross-links act as intramolecular tethers, rendering the polymer insoluble in water. They prevent the individual polymer chains from dissolving and forming a viscous gel layer on the tablet's surface. Instead, the cross-links allow the particle to swell to a massive extent while maintaining its particulate integrity. Without cross-linking, the polymer would simply dissolve and form a viscous hydrogel, which would act as a barrier, impeding further water penetration and dramatically slowing or even preventing disintegration. Thus, cross-linking is the key that unlocks the explosive swelling potential of CMS for rapid disintegration

.ROLE IN IMMEDIATE-RELEASE VS. CONTROLLED-RELEASE FORMULATIONS

The functional role of CMS in a solid dosage form is fundamentally determined by the degree of cross-linking, creating a clear dichotomy in its application.

Immediate Release Formulations: An Immediate Release formulation (IR) tablet's objective is to deliver medication as quickly as possible using Sodium Starch Glycolate as its excipient. Sodium Starch Glycolate serves as an exclusive "superdisintegrant," helping to accelerate the breaking apart of the tablet to facilitate rapid dissolution of the drug, followed by the rapid onset of action.

SCIENTIFIC ARTICLES

CARBOXYMETHYL STARCH IN CONVENTIONAL SOLID DOSAGE FORMS

Controlled Release Formulations: In the case of CMS, after it has undergone significant de-cross linking (the complete calcification of the polymer), there is a change in function. In this instance, the polymer becomes water-soluble. When it comes into contact with gastrointestinal fluids, it will not swell and rupture as is typically the case with other types of polymers. Rather, when it contacts GI fluid, the outermost chains of CMS will begin to hydrate, dissolve, and create a gel-like layer on top of the CMS tablet. This layer creates a diffusive barrier to penetrating moisture into the core of the tablet as well as controlling the rate at which dissolved drug is released from the tablet's matrix to the surrounding media. As the outer gel layer of CMS begins to dissolve (erode), it will expose another layer of gel beneath to continue the controlled release of the drug from the matrix, thereby extending the time period for sustained release of the drug. Hydrophilic matrix tablets are a typical example of the method of sustained release and how this action is achieved.

A special substance for creating prolonged release matrices is high amylose CMS. Additionally, uncrosslinked CMS can work in concert with other hydrophilic polymers, including HPMC, to formulate systems with more precise control over drug release patterns by creating a more rigid and regulated gel matrix. The Carboxymethyl Starch platform's versatility is demonstrated by its capacity to switch from being an accelerator and a retardant of drug release due to a single structural alteration

Table : Functional Divergence of Carboxymethyl Starch in Solid Dosage Forms

Type of Formulation	Form of CMS Used	Primary Function	Primary Mechanism
Immediate Release (IR)	Cross-linked Sodium Starch Glycolate (SSG)	Superdisintegrant	Rapid and massive swelling plus electrostatic repulsion leading to tablet fragmentation.
Controlled Release (CR)	Uncross-linked CMS (especially HASCA)	Sustained-release matrix former	Formation of a viscous gel layer that controls drug diffusion and surface erosion.
Tablet Binder	Pregelatinized/Spray-dried CMS	Binding agent	Increased inter-particulate cohesion and fusion under high compression force.

-Atharva Zore
T.Y.BPharm

-Palak Khania
T.Y.BPharm

-Virti Vora
T.Y.BPharm

NON-SCIENTIFIC ARTICLES

CHILD LABOUR REPORT

Introduction

Child labour can be defined as work done by children or adolescents that deprives them from schooling, childhood, their dignity and potential. The labour that is harmful to physical and mental wellbeing that reinforces integration cycles of poverty. Not all work can be considered as child labour some works such as working part time during free time helping financially to the family or working in family business is something of positive to them, such activities helps them build social awareness, development and family well being. Child labour is characterised as employment performed by minors or young adults that robs them of their education, youth, dignity, and potential. the labour that perpetuates poverty cycles by being detrimental to one's bodily and emotional health. However, Not all jobs can be classified as child labour; some jobs, such working part-time during free times to support the family financially or running a family business, are beneficial to the children and help them develop their social awareness as well as their family's well-being. The ILO (International Labour Organisation) and UNICEF data on child labour globally are shown below.

Understanding The Problem

Origin

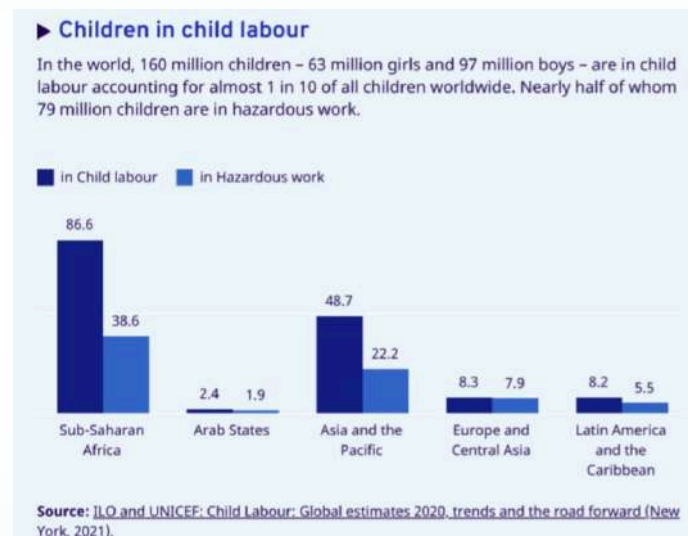
Pre-industrial era

In the pre-industrial era there was no such thing as childhood, from the age of 13 the children are considered as adults. They were involved in child rearing, hunting, farming as soon as they get capable. The work of children was important in pre-industrial societies, as children needed to provide their labour for their survival and that of their group. Pre-industrial societies were characterised by low productivity and short life expectancy; preventing children from participating in productive work would be more harmful to their welfare and that of their group in the long run.

Childhood wasn't present in the pre-industrial era; children are regarded as adults as of the age of 13. As soon as they were able, they began farming, hunting, and raising children. Children's labour was vital in pre-industrial societies since it was necessary for their own existence as well as the survival of their community. Pre-industrial societies were marked by poor productivity and short life expectancies; in the long run, it would be more detrimental to children's wellbeing and the welfare of their group to prohibit them from engaging in productive activity.

Industrial era

Child labour was exploited throughout the Industrial Revolution in 18th-century Britain due to the country's fast industrial growth and urbanisation. In industries and mines, kids as young as four years old were employed in hazardous environments. Some sold items or performed errands for others. Many families that were struggling financially turned to child labour as a source of revenue. A large percentage of the impoverished in 19th-century Great Britain did not have a breadwinner, forcing their children into the workforce. At the age of twelve, even well-known author Charles Dickens worked as a youngster. This sobering fact led to attempts at social reform, better working conditions, and the implementation of anti-child labour legislation.



NON-SCIENTIFIC ARTICLES

CHILD LABOUR REPORT

In india

India accounted for the largest number of minors working illegally in 2015, mostly in agriculture as a result of unemployment and familial poverty. Historical occurrences such as the British East India Company's dominance following the Battle of Plassey in 1757 are the origins of child labour in India. Children were exploited as a result of the need for cheap labour in wealthy areas, a practice that was later continued by global corporations looking for subpar employees. Indian children were particularly susceptible since they were unaware of their basic rights and were therefore exploited for financial gain in order to support their families.

Current Solution

1) The National Child Labor Project (NCLP) Scheme was launched in 9 districts of high child labor endemicity in the country in 1988. Under the scheme, funds are given to the District Collectors for running special schools for child labor. It is still in action. This initiative had improved the ratio of kids in school to drop out and helped them to get education.

2) Child Labour Prohibition and Regulation Act (CLPR, 1986): The CLPR Act prohibits employment of a Child in any employment including as a domestic help (except helping own family in non-hazardous occupations). It is a cognizable criminal offense to employ a Child for any work. Children under 14 years old cannot be employed in any capacity. To safeguard all children, certain occupations deemed hazardous are entirely off-limits. For teenagers (14-18 years), non-hazardous work is permitted, but under strict limitations: short daily hours, capped weekly schedules, and a complete ban on night work and overtime. Still this law is not that effective in informal sectors.

Consequence of the laws and initiatives

1) Awareness – Due to lack of awareness and education of parents has become a major reason for child labor. Because of illiterate parents, children are considered to be a source of quick income and avoid the importance of education. Therefore spreading awareness is necessary to ensure communities tap growth, education, and employ

2) Education for Children- most of the Children are early school leavers and not learning at school .To support their Families in income they are forced to work long hours due to which attending school is limited. Now, ensuring the out-of-school children and those who are at a risk of dropping out are mapped and gain to mainstream education. these can be achieved by creating a child-friendly learning environment, an interactive teaching-learning process process at school, and special education support for the slow learner.

3) Review and revision of law for effective implementation- To ensure the legal framework remains effective and relevant, periodic views of child labor laws are needed to adapt to new challenges and changing social and economic landscapes

4)International collaboration-To combat child labor especially when cross-border challenges are prominent, in that cases, strengthening partnerships with international organizations and neighboring nations to exchange best practices, intelligence and resources will have a huge impact.

5)Advocacy for policy change- Advocacy efforts will bring attention to the issue and encourage businesses to adopt responsible practices by aligning with and supporting policies that prohibit child labor. This will create a protective environment that actively works against the exploitation of children in the workshop.

Child labor as reported by census 1971-2011 vs. Year



~ **Nikhil Mane**
L.Y.BPharm

CASE OF THE MONTH



EARTH-RX-616
CLINICAL FILE #01

CASE SCENARIO:

A 58-year-old male with type 2 diabetes and hypertension presents with:

- Increased urination
- Excessive thirst
- Fasting blood glucose: 196 mg/dL
- HbA1c: 8.4%
- Currently on Metformin 500 mg twice daily

Doctor wants to intensify therapy.

QUESTIONS:

- (1) What is the likely issue with current therapy?
- (2) Suggest one additional drug class.
- (3) Mention its mechanism of action.
- (4) One major adverse effect?



EARTH-RX-616 ANALYSIS:

- (1) Inadequate glycemic control.
- (2) Add an SGLT2 inhibitor (e.g., empagliflozin).
- (3) Inhibits glucose reabsorption in proximal tubule → increases urinary glucose excretion.
- (4) Genital infections / risk of dehydration.

Clinical Truths vs Common Disbeliefs

Myth

All fevers require antibiotics

More dose = faster recovery

Herbal medicines have no side effects

If symptoms improve, antibiotics can be stopped.

If a drug works for one person, it will work the same for everyone

Injections are always more powerful than tablets

Truth

Most fevers are viral. Antibiotics work only for confirmed bacterial infections

Overdosing increases toxicity, not healing speed

Natural does not mean safe; many interact with drugs.

Stopping antibiotics early may lead to bacterial resistance

Drug response varies due to genetics, age, and metabolism.

Effectiveness depends on indication & pharmacokinetics — not route alone

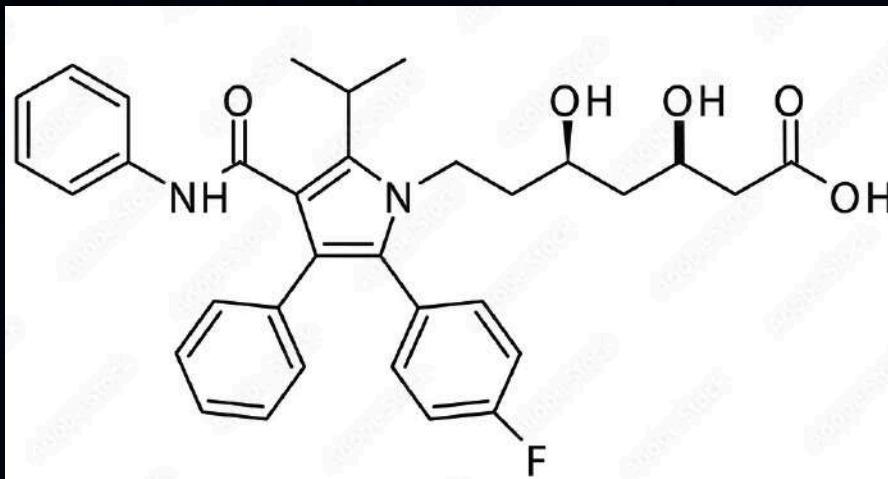
DRUG SPOTLIGHT

Class

HMG-CoA
Reductase
Inhibitor (Statin)

Mechanism

Inhibits HMG-CoA
reductase → decreases
cholesterol synthesis →
increases LDL receptor
expression → reduces
LDL levels.



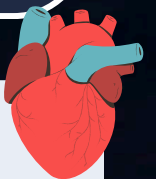
“ATORVASTATIN”

Uses

- Hyperlipidemia
- Prevention of cardiovascular disorders

Side-effects

- Muscle pain
- Elevated liver enzymes



Clinical Pearl

Statins exhibit pleiotropic effects including anti-inflammatory action and plaque stabilization.

MEME page

Platelets in high risk individuals



Before aspirin



After aspirin



Before
glucocorticoids



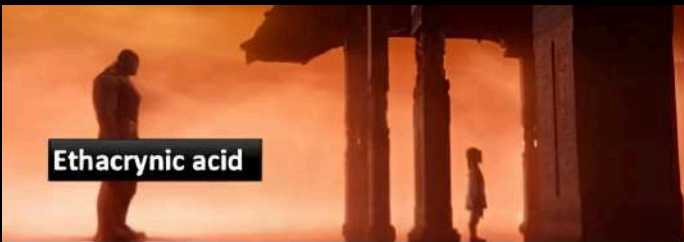
After
glucocorticoids

Thiazide diuretic in diabetes insipidus



*"I make them pee
more to make
them pee less"*

Ethacrynic acid



I cleared the edema in patient with sulfamoyl allergy

What did it cost ?



Can't hear; be louder



Patient on chronic amiodarone therapy



MEME page



Platelets in high risk individuals



Before aspirin



After aspirin



Looking at
pharmacology
memes



Actually reading
pharmacology

Me after answering "Nausea and Vomiting" in almost every pharmacology question



ARTWORK



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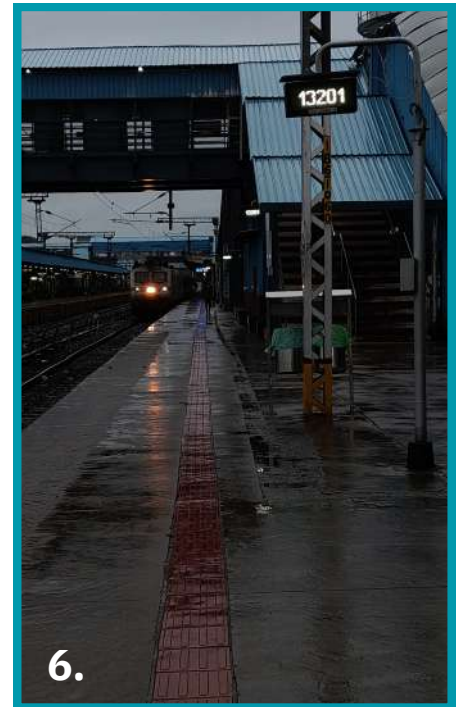
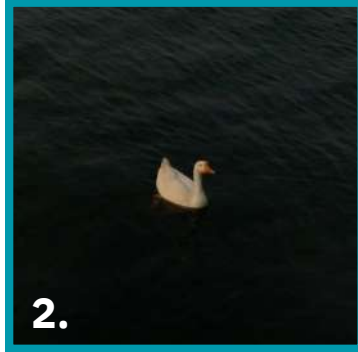


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CLASS PHOTOGRAPHS

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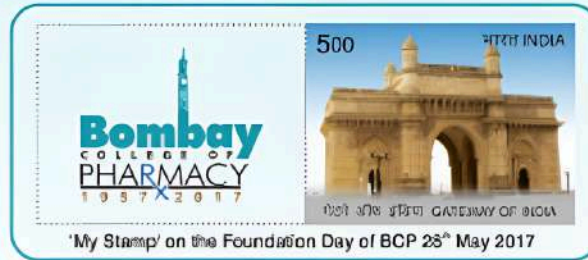
2017 | BCP Diamond Jubilee Year

2016 | The IPA MSB Platinum Jubilee Year

2014 | IPA Platinum Jubilee Year

2014 | Amrut Mody Centennial Birth Anniversary

Ventures of The IPA-MSB



'My Stamp' on the Foundation Day of BCP 28th May 2017

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Dr. M.K. Rangnekar Memorial Testing Laboratory

Manjusha Pimplodkar, Sr. Manager



Academy for Clinical Excellence

Sr. Manager

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