

COALESCE

Dream • Innovate • Create

2024



ST. JOHN INSTITUTE OF PHARMACY AND RESEARCH, PALGHAR

Accredited with NAAC Grade A (2023-28)

Awarded BEST COLLEGE (Rural) by University of Mumbai (2023)





VISION

- Serving Humanity through Excellence in Pharmacy Education and Research

QUALITY POLICY

- To deliver quality and value education, through innovative teaching learning processes and training, to build young and aspiring Pharmacists

PROGRAM EDUCATION OBJECTIVES

- Excel in professional pharmaceutical career and address social needs to industrial, community, hospital and entrepreneurial pharmacy
- Pursue higher education in management or research, engage in professional development and adapt to emerging technologies
- Exhibit adaptability, teamwork, leadership and communication skills to build corporate relations for successful careers
- Practice ethical professional behavior and be conscious of the environment and society

MISSION

- To promote quality Pharmacy education and training through innovative teaching-learning process
- To collaborate with industries to address challenge of quality and novel medicines
- To encourage innovation towards designing solutions to meet healthcare needs
- To contribute to the advancement of community pharmacy and public health
- To empower young minds with value-based education, communication and entrepreneurial skills

PROGRAM OUTCOMES

- Graduates will acquire knowledge on the source, properties, synthesis & formulations, analysis, pharmacokinetics, and pharmacodynamics of drugs
- Graduates will be able to apply knowledge of mathematics and computing tools for pharmaceutical data analysis
- Graduates will be equipped to handle sophisticated analytical instruments and adapt to emerging pharmaceutical technologies
- Graduates will be able to recognize and be aware of environmental issues relevant to pharmacy practice
- Graduates will be aware of various regulations and follow ethical and legal principles of pharmacy profession
- Graduates will be able to effectively document and communicate ideas and concepts in an organized manner
- Graduates will develop and implement time management, resource management, delegation skills and organizational skills
- Graduates will be able to execute pharmaceutical industrial operations; and analyse and evaluate problems encountered therein
- Graduates will develop good managerial and entrepreneurial abilities to execute professional responsibilities
- Graduates will be able to apply the acquired knowledge and practice the pharmacy profession considering historical, social, economic, political and safety issues
- Graduates will be able to pursue lifelong learning as a means of enhancing knowledge in the context of technological advancement

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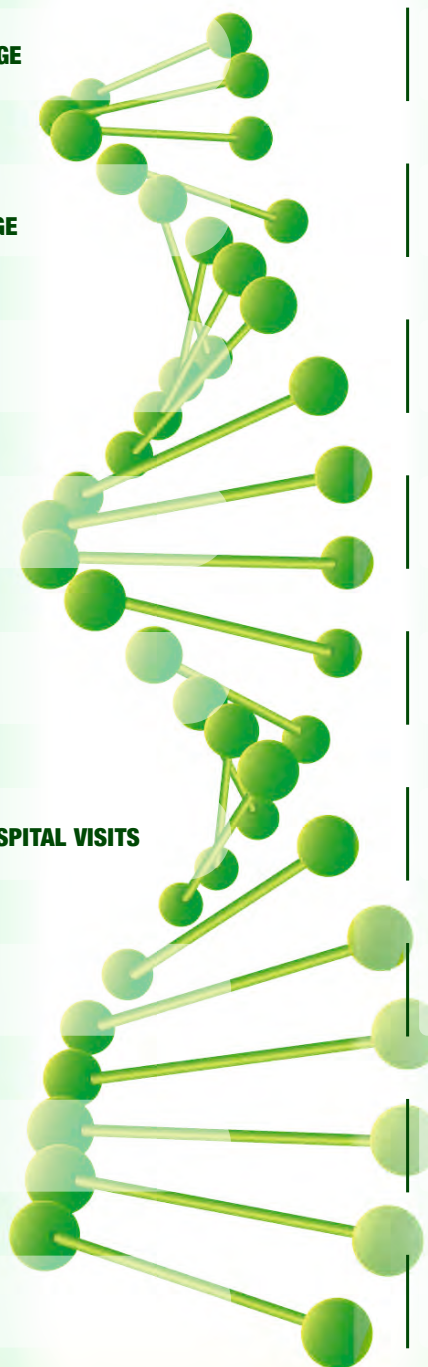
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BOARD OF TRUSTEES
GOVERNING BOARD
ACADEMIC ADVISORY COUNCIL



LIFE AT SJIPR



Dear Readers

Greetings from the Editorial Team!

Welcome to the 12th issue of our college magazine “**COALESCE**”, a fusion of diverse talents, ideas and narratives within SJIPR. This magazine is a window into the soul of life at SJIPR. It offers a glimpse of the college’s academic, cultural, social vibrancy and showcases its beautiful events and experiences. With immense pleasure and pride, the Editorial Team invites you to immerse yourself and explore the incredible contributions of our peers. This magazine is a medium through which we celebrate our achievements, share experiences and inspire one another to strive for excellence. It provides a platform where the exchange of ideas cultivates an environment of continuous learning and growth. The committee is immensely grateful for the valuable contributions of writers, artists and photographers that have breathed life into the pages of our publication. We are also grateful to each one who has encouraged and supported us and is a part of this beautiful journey which allowed us to bring out this magazine successfully. This issue is special one with institutional achievements especially Best College Award and Accreditation by NAAC with Grade A, and many student centric activities that have been compiled in this issue. We hope that as you flip through these pages, the content and the artistic flair bring a sense of happiness and joy within your hearts. Your feedback is always welcome and see you in the next year!



Dr. Abhijeet Puri
Editor-in-Chief



Tejas Yadav



Sameer More



Tahir Khan



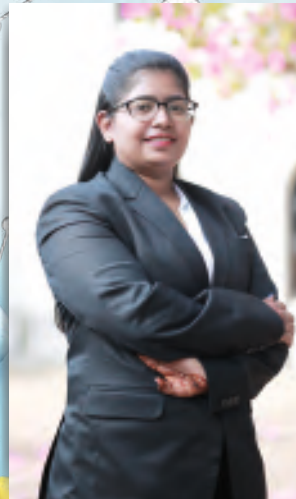
Pradom Nishad



Janhavi Shirke



Ashiti Macchi



Bhoomika Tiwari



Shambhavi Chaudhary





Mr. Albert W. D'souza
Chairman, Aldel Education Trust

"Leadership is the capacity to translate a vision into reality."

As the St. John Technical and Educational Campus completes 15 years, we look back at some of the major milestones that we have achieved in our short span of existence.

This vision of the Aldel Education Trust has turned into a reality through the constant efforts of all the stakeholders - the Students, Parents, Staff and Society as a whole. We have crossed an enrollment of 6000 students in our Campus with more than 350 Educators working tirelessly to impart education from the KG to the PG level.

SJCEM, SJIPR and SJCHS have been Accredited by NAAC with grades of A+, A and B++ respectively - the highest grades for colleges as young as ours. Our Junior College SJJC continues to sparkle with 100% results at the Board Exams and Awards at Co-Curricular and Extracurricular events. The CBSE School SJIS stands out with excellent all-round performance and the State Board School AHS has quickly grown in number with excellent academics.

The St. John Campus has successfully signed MoUs with the Pennsylvania State System of Higher Education (PASSHE) and other Universities in the United States of America. Our collaboration has started with 11 Universities on a variety of topics and we are targeting partnerships with 25 Universities worldwide. To add to this, we have applied for Academic Autonomy for our Institutes - to offer an enriched learning experience for our students.

We cannot stand still and be content with our achievements - we need to continue to strive in our pursuit for excellence. 2023 was a critical year for humankind with major disruptions in many fields that directly and indirectly affected us. Technology continues to advance by leaps and bounds and we need to prepare ourselves to keep pace with the latest developments. We all need to make ourselves Leaders and inspire people around us.

I hope 2024 helps us grow and discover the best versions of ourselves. I congratulate the Editorial Team for this wonderful magazine and I wish everyone a successful and prosperous year ahead.



Dr. Evans Coutinho
Dean-Research,
St. John Technical and Educational Campus

The year 2023 has given us a lot to ponder. We have made great strides and Science and Technology. The biggest newsmaker in 2023 was AI. ChatGPT launched in November 2022, had 100 million users by the start of 2023. The power of AI has left governments scrambling to work together on "how best to harness its abilities and guard against its misuse". Several vaccines were introduced in 2023, notably against RSV and malaria. 2023 was the hottest year on the planet measured in the period 1850 - 2000, with wildfires erupting in several countries. The year also introduced lab grown meat; in June the "atlas of the lung" and in October the "brain atlas" was unveiled. Great progress was made on use of organs from animals. Closer home we saw India successfully plant a lander on moon. The stories are endless and these are exciting and propitious times for us teachers, we must transmit this excitement to our students. If we do not do so, we would have failed in our duty and our students will only have us teachers to blame.

I wish you a Happy New Year and a Successful Year ahead.

"The best preparation for tomorrow is doing your best today."

- H. Jackson Brown, Jr.

2023 was a remarkable year for the, St. John Technical and Educational Campus, and I take this opportunity to congratulate the Management, Faculty, Staff and Students of all our Institutes for doing their best at both academic and extracurricular events in addition to the Accreditation by NAAC with Grade A+ for SJCEM, Grade A for SJIPR and Grade B++ for SJCHS. The National Education Policy 2020 is being implemented in phases and this decade will see major reforms in our educational system. Both Faculty and Students, from School to Post-graduate levels, need to be well-informed of these transformations, especially those that are linked to their individual future careers. For our Higher Educational Institutes, the Autonomy Status, will provide unique identities, and attract the best of talent. While the prospects in this changing scenario are excellent, we need to seize the opportunities and be front-runners in the race. The Management of St. John Technical and Educational Campus is ambitiously looking forward to a vibrant and stimulating academic environment, providing education at par with global standards, and strengthened with foreign collaborations. It is Faculty and students who need to capitalize on this investment and reap the benefits for brilliant futures.

To the Faculty – "Listen to the desires of your students; teach, mentor, guide and encourage them to make their own decision" – Denis Waitley.

To the Students – "Education is the passport to the future, for tomorrow belongs to those who prepare for it today." – Malcolm X



Dr. (Mrs.) Savita J. Tauro
Principal-SJIPR & Dy. Campus Director,
St. John Technical and Educational Campus

Happy New Year 2024!

2007

Establishment of
Aldel Education
Trust.

2008

SJIPR B. Pharm. (60)

2013

D. Pharm. (60)

B. Pharm. 60 – 100.

2014

2017

Accredited by
NBA and NAAC

2018

Course
M. Pharm.
Quality Assurance (QA)

2019

Received u/s 2(f)
UGC Act 1956

M. Pharm.
Pharmaceutics
Pharmaceutical Chemistry
Pharmacology

2022

2023

Accredited by
NAAC A Grade
&
Best College
Award (Rural) by
University of
Mumbai

University of Mumbai
Best College Award
Academic Year: 2022-23
Area: Rural
St. John Institute of
Pharmacy and Research,
Palghar

September 5, 2023



St. John Institute of Pharmacy and Research (SJIPR) conducts the 4 year full-time degree programme of Bachelor of Pharmacy (B. Pharm.) since 2008, 2 year full-time Diploma in Pharmacy (D. Pharm.) from 2013 and has commenced the 2 year full-time Master of Pharmacy (M. Pharm.) with specialization in Quality Assurance from 2018. Additional specialisations in Pharmaceutics, Pharmacology and Pharmaceutical Chemistry were introduced from 2022. The Institute is approved by PCI, AICTE, DTE (MS), and affiliated to the MSBTE (D. Pharm.) and University of Mumbai (B. Pharm. & M. Pharm.). In its decennial Academic Year, 2017-18, the Institute not only got accreditation from NAAC with CGPA 2.40 and Grade B, but the B. Pharm. Programme was also accredited by NBA. In the Second Cycle of NAAC the Institute is accredited with Grade A and CGPA 3.08 from 2023-2028. The Institute also received the 'Best College (Rural) Award from University of Mumbai for the academic year 2022-23. With our team of qualified and dedicated faculty and trained technical and support staff we are proud to say that in this span of time we have achieved. SJIPR's commitment to excellence persisted as it maintained its high academic standards, placing emphasis on delivering a challenging curriculum and implementing innovative teaching methodologies. It is our pleasure to present the Annual Report for the year 2023 of St. John Institute of Pharmacy and Research. Our pursuit of excellence in pharmacy education this year has led to significant achievements, advancements in academia, and numerous milestones. SJIPR is committed to upholding its mission of delivering excellent education, fostering innovation, and nurturing future Pharmacist. These are a few standout moments from the previous academic year:

Induction Programme

College Induction Programme for First Year students of D. Pharm., B. Pharm. and M. Pharm. (All branches) of A.Y.2023-2024 was conducted on Monday, 25th September 2023, where the students were briefed about the profession of Pharmacy, curriculum and other activities. The students were addressed by Chief Guest, Dr. Suhas Pednekar, Former Vice Chancellor, University of Mumbai, Mr. Albert D'Souza, Chairman, Aldel Education Trust and Dr. Savita Tauro, Principal, St. John Institute of Pharmacy and Research. Chief Guest in this session motivated students to excel in their professional careers.



FACULTY DEVELOPMENT PROGRAMME

An FDP was conducted on Saturday, 1st July 2023. The faculty members of SJIPR actively participated in FDP. Dr. Savita Tauro gave an overview of the FDP. Mr. Albert W. D'Souza motivated all the participants in his welcome address. Mr. Aldridge D' Souza delivered an extensive presentation on Foreign University Collaborations and the various Universities visited along with the Programmes discussed with them for collaboration. Dr. Suhas Pednekar guided all the faculty members on Challenges for Faculty in the New Normal. Dr. Krishna Iyer talked about Teaching Pedagogies to develop a Research Culture on campus.



Mr. Albert W. D'souza
Chairman, Aldel Education Trust



Mr. Aldridge D'Souza
Member, Aldel Education Trust



Dr. Suhas Pednekar
Former, Vice Chancellor, University of Mumbai



Dr. Krishna Iyer
Principal & Professor, Bombay College of Pharmacy, Mumbai

Teachers Day

Teachers Day was celebrated by the Management of Aldel Education Trust as well as students of SJIPR on 5th September 2023. On Teachers' Day, Hon. Management members and all teaching staff of Aldel Education Trust paid tribute to Bharat Ratna Dr. Sarvepalli Radhakrishna. The day recalled the critical role played by all teachers in nation-building. Mr. Aldridge D'Souza, AET member, organized various events and games for teachers in the main auditorium. Principals, teaching and non-teaching staff were actively involved in it and they were awarded with photo frames based on Staff voting for various categories.



Science Fest

Science Fest event was organized at the St. John Technical & Educational Campus, Palghar on 1st and 2nd December 2023. This event provides an enriching educational experience for students. The participants' fresh ideas, innovative projects, and scientific / technical concepts acted as catalyst for the motivation of young scientists and technocrats. The chief guest for the Science Fest was Mr. Dilip Dale and Mr. Albert W. D' Souza, Chairman of Aldel Education Trust inaugurated the event. Mr. Ulhas B. Rahate, Sigma Polymer Industries, Vasai, was invited as the Chief Guest for the valedictory function. In his address, he inspired student participants to be inquisitive and innovative to pursue goals in life. Mr. Albert W. D'Souza along with Mr. Ulhas B. Rahate, Sigma Polymer Industries, Vasai, felicitated and rewarded the winners.



World Pharmacist Day

The IPA-MSB-SF Palghar Local Branch in association with SJIPR organized "World Pharmacist Day" 2023, which was held on 25th September 2023. The theme for the program was "Pharmacy Strengthening Health System". The Chief Guest Mr. Vilas Patil, Guest of Honour, Mr. Amar Pawar & Dr. Suhas Pednekar attended the program. A session was conducted by Mr. Amar Pawar, Vice President-Technical Operations, Bliss GVS Pharma Ltd. Palghar. The Guest of Honour Dr. Suhas Pednekar, former Vice Chancellor of, University of Mumbai commented on this year's theme, "Pharmacy Strengthening Health Systems". The Chief Guest Mr. Vilas Patil, Head Human Resource Department Bliss GVS Pharma Ltd. Palghar, emphasized on Pharmacists being intelligent solutions who bridge gaps in healthcare. Other activities conducted: Reel making competition, Poster-making competition and Awareness Rally.



Annual Graduation Day

11th Annual Graduation Day Ceremony was held at St. John Technical Campus' on 27th May 2023 for the graduating batch of A. Y. 2021-2022 in the Main Auditorium of the Engineering College. Dr. V. G. Gaikar, the former first Vice Chancellor of BATU, Lonere, honored the ceremony with his presence as the Chief Guest. Mr. Albert W. D'Souza, Aldel Education Trust addressed the gathering and welcomed the Chief Guest. He congratulated and motivated the graduates to keep virtues and ethics to contribute in nation-building. He also spoke about making the best use of time, energy, and money that come in varied proportion in different phases of life. The Chief Guest, Dr. V. G. Gaikar in his speech, stressed on aspects such as lifelong learning required for succeeding in personal as well as professional life. He also emphasized the need to be courageous and to collaborate and share expertise to be successful in future endeavors.



Student Farewell

Farewell for students of Second Year M. Pharm. (Batch 2020-22) was conducted on 7th July 2023, and for Second Year D. Pharm. (Batch 2020-22) on 17th July 2023.



Annual Day & Annual Sports Meet

Annual Day was celebrated on 27th January 2023. Students of St. John Technical and Educational Campus celebrated the 13th Annual Day program with great enthusiasm. SJIPR participated and contributed to the success of this grand event. The theme of the Annual Day 2023 program was "Folk Culture of India." Fr. Magi Murzello was the Chief Guest and Mr. Balasaheb Patil, Palghar District Superintendent of Police, was the Guest of Honor for the Annual day. Dr. Savita Tauro, Principal of SJIPR, presented the annual report of SJIPR. The Chief Guest, Fr. Magi Murzello and Guest of Honor, Balasaheb Patil (IPS) were introduced by Mr. Aldridge D'Souza. Mr. Balasaheb Patil addressed the gathering. All the dignitaries appreciated the students' cultural performances. The Chief Guest emphasized the importance of driving with discipline to students, given the high number of accidents and lives lost. The key point he stressed was the need to develop good habits during college and eliminate negative addictions like excessive phone usage, smoking, alcohol consumption, etc. Student and Faculty achievements were felicitated for academic, extra curricular and research excellence.



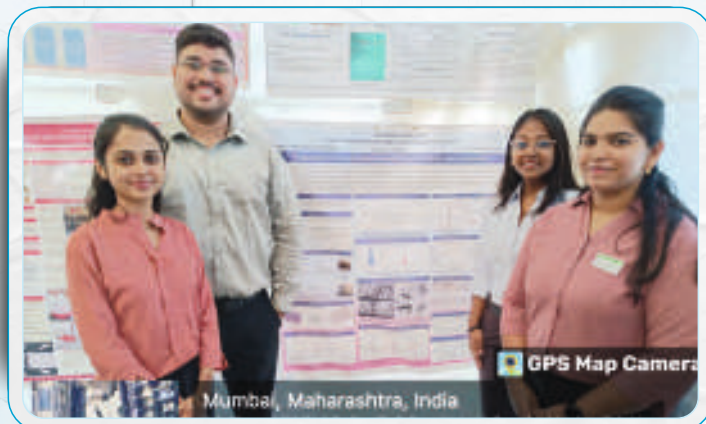
Certificate Course on Nutraceuticals

A 30 hours Certificate course on “Nutraceuticals: Regulations and Claims” was conducted in association with EnvisBE Solutions Pvt. Ltd., Mumbai for the students and Faculty members in a hybrid mode. Resource Person Mr. Benedict Mascarenhas, Chairman and MD, EnvisBE Solutions conducted the course. A Three days offline sessions were blended with 4 day online content delivery using GSuite. A blend of 33 participants including 20-UG, 3-PG students and 10-Faculty members benefited from the course.



TECHNICAL EVENT

Poster Presentation at 18th Aavishkar Research Convention, University of Mumbai



Collaborations

SJIPR has signed MoUs with 14 local industries and hospitals, aiming to foster collaboration and cooperation for resource optimization and increased opportunities. Internships, workshops, and guest lectures, facilitated by collaborations with leading companies, gave students valuable industry exposure and relevant skills.

- Maharashtra Center for Entrepreneurship Development (MCED), Palghar
- Ramnarain Ruia Autonomous College, Mumbai.
- St. Aloysius College(Autonomous) Mangaluru.
- St. Agnes College(Autonomous) Mangaluru.
- St. Joseph Engineering College (Autonomous) Mangaluru.
- Bombay College of Pharmacy, Mumbai.
- Microencap Enterprises, Mumbai.
- Envisbe Solutions Pvt Ltd., Mumbai.
- Impulse Pharma Pvt.Ltd, Boisar.
- Chemicea Pharmaceutical Pvt. Ltd. Pune.
- Dr. M.L. Dhawale Memorial Homoeopathic Institute, Palghar.
- Ayushakti Ayurved Pvt. Ltd, Malad.
- Enicar Pharmaceutical Pvt. Ltd MIDC, Boisar.
- Aurochem Pharmaceuticals Pvt. Ltd. Boisar - Palghar.

- Consultancy Projects worth Rs. 1,00,000/- completed successfully for Ayushakti Ayurved Pvt. Ltd.



Collaborations with Foreign Universities

Mr. Aldridge D' Souza delivered an extensive presentation on Saturday, 1st July 2023 about the various Universities visited along with the Programmes discussed with them for collaboration. Following were the essentials of the visit: A total of 12 Universities were visited by the Management Members within 8 days including 9 Universities in Pennsylvania, 1 University in Michigan, and 2 Universities in Alabama The main outcome of this Visit was signing 6 MoUs & Lols. The pivotal objective of the said visit was not only on sending students to the USA but overall improvement of our Institutions with regards to Conferences, Joint Research, Syllabus Development Faculty and Student Exchange for Higher Studies.





Visit to Dr. M. L. Dhawale Hospital, Palghar was held for First Year D. Pharm. on 18th March 2023.



Visit to Neon Lab Ltd, Palghar was held for First Year D. Pharm. on 22nd August 2023.



Visit to Bo-Chem Pvt. Ltd, Boisar was held for students of F.Y. D. Pharm. on 8th April 2023.



Visit to Enicar Pharmaceutical Pvt. Ltd, Boisar, was held for F. Y. B. Pharm on 24th & 28th November 2023.



Visit to Vimta Labs Ltd, and Indian Serum Institute limited, Hyderabad. was held for T.Y. B. Pharm from 22nd to 26th February 2023.



Visit to Biozeen Laboratories Pvt. Ltd, Bangalore was held for Final Year B. Pharm. 6th to 10th January 2023.



Visit to ICON Labs in Navi Mumbai. was held for S. Y. M. Pharm. on 14th October 2023.



Visit to Metro Phoenix Hospital was held for S.Y. D. Pharm. students on 3rd April 2023.



Dr. Evans Coutinho Dean- Research, St. John Technical & Educational Complex, Palghar (M.S.) conducted a session on Encouraging the Undergraduate Students for Research Innovation on 26th October 2023.



Dr. Radhakrishnan P. Iyer Co-founder, CSO of Spring Bank Pharmaceuticals Inc. USA & Origenix Technologies Inc. Canada Adjunct Professor, ICT, Mumbai conducted a session on "Academics, Research and Entrepreneurship" on 21st February 2023.



Dr. Sr. Chrisia Laura Pinto, Admin Manager & Asst. Professor, SJCHS, Palghar. conducted a session on "Self Esteem And Motivation" on 20th October 2023.



Dr. Prashant Chikale, Professor and Consultant College of Veterinary Medicine, University of Tennessee, Knoxville, TN, US, conducted a session on the Interdisciplinary and Integrated approach toward contribution to SJIPR on 23rd March 2023.



Mr. Dinesh Mehta, Product Marketing Specialist, Olympus Medical System, India, conducted a session on "Career Opportunities for Pharma Graduates in the MedTech Industry" on 11th August 2023.



Mr. Ishwar Gundecha, Research Scientist, Abbott Ltd. Mumbai, conducted a session on "Current Trends & Innovations in Pharmaceutical Product Development" 4th March 2023.

The annual event "Symphoria" 2023 was conducted by the Department of Pharmacology & Department of Pharmacognosy. It was a One Day National Symposium organized in collaboration with IPA-MSB & APTI-MS on Saturday, 3rd February 2023. The theme for the Symposium was 'DATA Analytics and AI-ML: Opportunities in Healthcare'. A total of 208 delegates registered and participated in the Poster Presentation Competition and Symposium.



Mr. Ashish Baptiwalé
 Director, Navigo Analytix,
 Goregaon, Mumbai
 Topic : "Current Scenario of
 Data Analytics and AI-ML"



Dr. M. Vijayalakshmi
 HOD & Vice Principal, VES
 Institute of Technology, Mumbai
 Topic : "Artificial Intelligence
 in Healthcare"



Dr. Sachin Deshmukh
 Director, VES Business School
 Chembur, Mumbai
 Topic : "Data Analytics
 in Healthcare"



Mrs. Indrani Kakade
 Consultant, Clinical trials, Data
 Management & Analytics, Mumbai
 Topic : "Application of AI-ML
 in Clinical Trials"



Indian Society for Technical Education (ISTE) Short-Term Training Program (STTP) was conducted from Monday, 08th May 2023 to Friday, 12th May 2023 on “NEP 2020-Building Research Culture and Enhancement of Teaching Learning process”. The program was attended by 34 Faculty Participants from which 25 were ISTE Life Members.



Dr. Shreerang Joshi
Professor & Head,
Department of Pharmaceutical
Sciences and Technology,
Institute of Chemical Technology
(ICT), Matunga, Mumbai
Topic: NEP 2020-Academic
Bank of Credits



Dr. Savita Tauro
Principal (SJIPR) &
Deputy Campus Director (SJTEC)
Topic: NEP 2020: The Evolving
Role of Faculty



Dr. Brajabandhu Das
Principal, St. John College
of Humanities and Sciences
Topic: Interdisciplinary Approach
in NEP 2020



Dr. Norma Rebello
Associate Professor &
HOD Pharmaceuticals,
SJIPR
Topic: Constructive Mentoring



Mr. Benedict Mascarenhas
Chairman and MD,
EnvisBE Solutions
Topic: Strengthening Research
Through IPR



Dr. Y. S. Rao
Vice-Principal & Professor,
Sardar Patel Institute of
Technology, Andheri, Mumbai
Topic: Research Culture and
Funded Research



Dr. Surendra Singh Rathod
Principal, Fr. Conceicao
Rodrigues College of
Engineering, Bandra, Mumbai
Topic: Technical Research
Paper Writing



Dr. Krishna Iyer
Principal and Professor,
Bombay College of Pharmacy,
Kalina, Mumbai
Topic: Types of Research



Dr. Govind Asane
Professor, Dept. of
Pharmaceutics, SJIPR
Topic: Healthcare and Positive
Psychology for Professional
and Personal Wellbeing



Dr. Munira Momin
Principal, BNCP, Mumbai
Topic: India-centric Research
Funding Agencies for
Educational Institutes
and its alignment to
NEP 2020.



Mr. Vidyadhar R. Patil
Manager-HR, SJTEC, Palghar
Topic: Feedback: A Tool for
Assessment and Enhancement
of Performance



Dr. Suhas Pednekar
Former, Vice Chancellor,
University of Mumbai
Topic: The Sustainable
Governance-The way forward
for Institutional Autonomy

National Service Scheme

- Blood Donation Award Appreciation Certificate received by SJIPR NSS Unit from University of Mumbai for Second Highest Blood Units Collection at College Level category in Palghar District for A. Y. 2022-2023.
- Blood Donation Camp at SJIPR was conducted on 10th March 2023.
- Tree Plantation Drive in association with the Gram Panchayat (Ibhaadpada) Shelwadi Village, Palghar, conducted on 5th August 2023.



Bureau of Indian Standards (BIS) Standards Club

- Conduction of the activities to promote Quality Standards amongst the School and Professional Course Students.
- Training Workshop; Quality Connect Campaign conducted on 15th March 2023.
- Door to Door Campaign; Quality connect was conducted from 18th March 2023 to 21st March 2023 for which total of 219 Students received Rs.1500/- as honorarium and a Total of Rs.3,28,500/-



Department of Life Long Learning (DLLE)

- Poster Making competition was held on 25th September 2023 on the Topic: Pharmacists Strengthening Health Systems.



SYNIGENCE

Cultural Committee and Student Council of SJIPR organized 'SYNIGENCE' a dynamic and captivating series of cultural events from 23rd to 25th January 2023. The purpose of these activities is to cultivate a sense of inclusiveness, creativity, and community engagement among the student body. These events were created to give students a platform to display their talents, embrace diversity, and foster cultural exchange within the institute.



International Yoga Day

International Yoga Day was celebrated on 21st July 2023. This year the theme of Yoga Day was 'Yoga For Vasudhaiva Kutumbakam' i.e. yoga for the welfare of all in the form of 'One World-One Family'.



Republic Day

The 74th Republic Day was celebrated on 26th January 2023 with solemnity and grandeur at St. John Campus. The Tri-color was unfurled at the hands of Dr Brajbandhu Das. Esteemed Management members, all the respective Principals, HoDs, Teaching, and Non-teaching faculty members saluted the National Flag and pledged to uphold the honor and integrity, diversity, and uniqueness that is "India." Dr. Brajbandhu Das addressed the audience during this occasion. The attendees were filled with patriotic spirit after witnessing a beautiful classical dance performed by students.



Independence Day

With great enthusiasm, SJIPR celebrated India's 77th Independence Day on 15th August 2023. The event started with a parade, followed with flag hoisting by Dr. Evans Coutinho, Dean Research, SJTEC. The Management Members, Principals, HoDs, Teaching, and Non-teaching faculty members attended the celebration.



Garba Celebration

Garba was held on 21st October 2023 on campus grounds that were adorned with colourful decorations, vibrant drapes, and ornate traditional motifs that captured the festive spirit. The event witnessed an impressive turnout, with students, faculty, and even local community members joining in the celebrations. Overall, the Garba Celebration was a testament to the institution's commitment to fostering a culturally rich and harmonious environment for all its members.



Diwali Celebration

Diwali known as the festival of lights, was celebrated on 10th November 2023. The celebrations started with 'Aarti, a welcoming ceremony for the faculty and staff. Diya was lit to signify the start of the inauguration. Inter-Institute Rangoli Competition, Inter-Institute Cultural Activities, and Tambola were among the games performed by all the Institutes on campus.



Winter Wonderland

'Winter Wonderland', an expression of the amazing 2-day event of artistic performances was held on 19th and 20th December 2023 to celebrate Christmas week at St. John Campus.



Christmas Celebration

Christmas was celebrated on 22nd December 2023, in the Main Auditorium of Campus. The Chairman's Christmas greetings and Rev. Fr. Gonsalves shared the Christmas messages of joy and peace to all. Later, the faculty prepared a variety of Skits, carols, and dances. In addition, the initiative was taken to celebrate Christmas by organizing a Secret Santa.



GRANTS RECEIVED



Dr. Bharat Dhokchawle HOD & Associate Prof., Dept. of Pharmaceutical Chemistry received a research grant of Rs 4,95,000/- from the Rajiv Gandhi Science & Technology Commission (Government of Maharashtra).

Topic entitled "Engineering colon-targeted complex coacervates for cancer. chemotherapy using indigenous gums from the Konkan region" for duration of June-2023 to June-2025.

ORAL / POSTER PRESENTATION WINNERS



Dr. Abhijeet Puri, Assistant Prof., Dept. of Pharmacognosy First Prize, Best Oral Presentation Award. In the Category of Pharmacognosy and Phytochemistry, Indigenous Drugs, Herbal formulations, at 72nd Indian Pharmaceutical Congress Association (IPC)-2023, held at Rashtrasant Tukadoji Maharaj Nagpur University Campus, Nagpur 20th to 22nd January 2023.

Dr. Norma Rebello received Best Paper Presentation (Oral) on "Recent Advances in Nanotechnology: Drug Discovery & Therapeutics," in the category Pharmacognosy and Natural Products at the 2nd Nirma e-conference for International Connect, Nirma University, Gujarat, on 24th - 25th January 2023.



AWARD OF APPRECIATION

Dr. Norma Rebello received the Award of Appreciation by the Bureau of Indian Standards (BIS) on World Standard Day, 14th October 2023, for promoting Quality Culture among students and local community.

Mrs. Meeta Jain received the Third Prize in an Oral presentation on the topic "Computational and Experimental Identification of an Ideal Derivative for the Formulation of Long-Acting Injectables". at the Two-Day National Conference on Commercialization of Natural Products, ISF College of Pharmacy, Moga, Punjab on 10th - 11th February 2023.



PATENTS

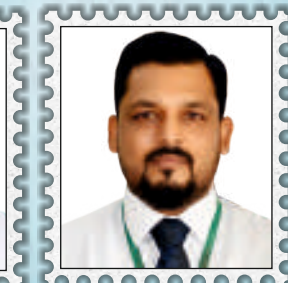
- Dr. Evans Coutinho Granted patent Entitled "Novel Pectin Co-grafted Thermoresponsive Polymers for Wastewater Treatment".
- Dr. Govind Asane, Published a Patent on the Development and validation of lipid-based Microsuspensions for Ophthalmic Delivery of Tobramycin dated 13.10.2023. and Patent on Formulation development and In-vitro and In-vivo Evaluation of Sublingual Tablets dated 24.11.2023.
- Dr. Abhijeet Puri granted with Indian Design Patent (Design No. 391987-001) for a High-Performance Thin-Layer Chromatography Apparatus dated 30/10/2023.



Dr. Evans Coutinho
Dean-Research,
SJTE Campus



Dr. Govind Asane
Vice-Principal &
Professor



Dr. Abhijeet Puri
Assist. Professor

IPA- MSB Students Forum



Md. Amaan Khan
Editor-in Chief



Isha Kewat
Asso. Public Relations
Officer



Diana Jacob
Joint Executive Officer



Archana Nair
Joint Cultural Secretary



Prathmesh Mahajan
Cell Finance Member



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Chinmay Chafekar
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Tejas Yadav
Media and
Editorial Co-ordinator



Ciona Gonsalves
Ladies Representative



Kajal Singh
Alumni & Placement
Co-ordinator



Mayur Bhure
Student Representative
D. Pharm.



Dhanashree Pillai
Student Representative
M. Pharm.



Leena Khairnar
Leader
(N.S.S.)



Second Year M. Pharm.



Nitin Ade
8.50 CGPA



Tresa Boban
8.75 CGPA

First Year M. Pharm.



Tare Shreya
8.69 CGPA



Siddhi Vartak
8.30 CGPA

Final Year B. Pharm.



Diksha Navghane
8.56 CGPA



Vaidya Nishanka
8.42 CGPA

Third Year B. Pharm.



Neha Pandey
8.59 CGPA



Ganesh Boisa
8.42 CGPA

Second Year B. Pharm.



Brijesh Yadav
8.52 CGPA



Bhoomika Tiwari
8.47 CGPA

First Year B. Pharm.



Maurya Anjali
8.67 CGPA



Dias Feushia
8.49 CGPA

Second Year D. Pharm.



Jyoti Solanki
87.64%



Deepak Vishwakarma
85.00%

First Year D. Pharm.



Gupta Neha
85.20%



Bhure Mayur
84.60%

STUDENTS ACHIEVEMENTS



Ms. Samiksha Mhatre S. Y. M. Pharm. Won Third Prize in Poster Presentation, at the 26th Annual National Convention of Association of Pharmaceutical Teachers of India, held at At PSIT, Kanpur, from 2nd to 3rd September 2023.



Mr. Akhilesh Chodhankar S. Y. M. Pharm. Won 2nd Prize for Poster Presentation at National Conference at Institute of Pharmacy and Technology, Salipur, Cuttak, Odisha, held on 24th November 2023



Nitin Ade S. Y. M. Pharm. Won Third Prize in Poster Presentation, at the International Conference at Sanjivani College of Pharmaceutical Education and Research, Ahmednagar



Kaustubh Desle & Priyanka Sawant, "Won 1st Prize for Poster National Seminar & Poster presentation Competetiton on held at Viva Institute of Pharmacy, Virar on 25th February 2023.



Shubham Patil, Sankalp Machhi, Shalini Mishra, Krutika Kudu, Won 1st Prize or Poster at One -Day Symposium on Data Analytics and AI-ML: Opportunities in Healthcare, Symphoria, SJIPR, Palghar on 4th February 2023



Renny Daniel and Punit Mishra S. Y. M. Pharm. won 3rd Prize for Poster Presentation at National level Research Poster Presentation competition, NCRD's Sterling Institute of Pharmacy on 11th February 2023



Ashiti Machhi T. Y. B. Pharm. Won 1st Prize (Rs 2000/-) in Reel Making Competition on AIDS awareness organized by Maharashtra State AIDS Control Society's District AIDS, Palghar on 12th August 2023



Asha Tekale, Prerana Sathwara, and Aditi Shewale of T. Y. B. Pharm. Won 2nd Prize in Poster Making Competition at Srijan organized by SJCEM, Palghar on 31st January 2023

YOUTH FESTIVAL AT UNIVERSITY OF MUMBAI

Winners of 56th Youth Festival, University of Mumbai



Third Prize and Consolation Prize for Indian Folk Dance at University Level



Consolation Prize for Skit (Hindi), Zonal Round



Third Prize for One Act Play (Hindi), Zonal Round



Felicitation of Final Round Winners



3rd Prize in Rink Football at Rx-2023 Organized by Indian Pharmaceutical Association- Maharashtra State Branch, Student's Forum

Winners at Zonal Round of 56th Youth Festival, University of Mumbai

Rx Ekansh Winner

			
<p>Shreyas Pasalkar S. Y. B. Pharm. Received Third Prize at Mono Acting</p>	<p>Dhruvi Patel T. Y. B. Pharm. Received Consolation Prize at Poster Making</p>	<p>Sancia Carvalho Final Year B. Pharm. Received Consolation Prize at Collage Fine Art</p>	<p>Md. Amaan Khan Final Year B. Pharm. Received Third Prize at Gully Boy event</p>

Rx EKANSH WINNERS

			
<p>Shambhavi Chaudhary T. Y. B. Pharm. Second Prize Meme Mastic</p>	<p>Lalit Ghage S. Y. B. Pharm. Second Prize Meme Mastic</p>	<p>Parnika Chaudhari Final Y. B. Pharm. Received Second prize Duet singing</p>	<p>Mayur Bhure S. Y. D. Pharm. Received Second prize Duet singing</p>

			
<p>Arshan Khan Poster Presentation</p>	<p>Sahil Dsouza Poster Presentation</p>	<p>Saif Khan Poster Presentation</p>	<p>Naushad Miya Poster Presentation</p>

		
<p>Devendra Kapildev D. Pharm. Received 1st Prize in the Logo Competition</p>	<p>Vaibhav Adsul D. Pharm. Received 2nd Prize in the Slogan Competition</p>	<p>Anjali Baranwal T.Y. B. Pharm. Received 1st Prize in Quiz Competition Organ Donation Awareness</p>



Mr. Ashish Dubey

Pursuing MBA in Pharmaceutical Management,
NIPER Hyderabad.

Reflecting on my incredible 4 year journey at St. John Institute of Pharmacy & Research as a Bachelor of Pharmacy graduate brings back vivid memories. I would like to express my sincere gratitude to the dedicated faculty at SJIPR for nurturing our passion for continuous learning. Their unwavering commitment to our success has been instrumental in shaping us into the professionals we are today. We owe them a debt of gratitude that can never truly be repaid. The education we received here was not limited to textbooks and lectures, it was a holistic experience that encompassed every aspect of our lives, including friendship, personal growth, and a deep sense of belonging. My experience at SJIPR has been truly transformative. I joined as an eager learner and I left as an accomplished pharmacist, equipped with knowledge, skills, and a passion for healthcare that will drive me forward in my career. To my fellow graduates, I want to emphasize that this is not the end of our journey. It is a stepping stone to new adventures, knowledge, and experiences. Let us continue to learn, grow, and make a positive impact on the world. I highly encourage each one of us to stay connected to SJIPR. Our experiences and insights can be valuable to the students who will follow in our footsteps. Let us come back to St. John's not only as visitors but as mentors, supporters, and contributors to the institution that has given us so much. In conclusion, I want to express my gratitude to SJIPR for the incredible memories and the knowledge imparted. Our time here has been a chapter in our lives.

Bhagyashree Chaudhari

Pursuing MBA in Pharmaceutical Management,
NIPER S.A.S. Nagar (Mohali).



During my 4 year journey at St. John Institute of Pharmacy & Research, I completed my Bachelor's degree in Pharmacy and developed into a professional and responsible individual. I am grateful to Principal Dr. Savita Tauro and the esteemed faculty at SJIPR for their support and motivation in my continuous learning through theoretical and practical training sessions. The entire staff was always willing to provide the best possible help whenever required. The overall environment at SJIPR helped me to upgrade my skills and build my character by participating in several technical and sports competitions, which instilled a sense of confidence in my overall well-being. On a personal level, I have gained friends who have become an extended family for a lifetime, and they are all doing well in their careers. During the Covid-19 pandemic, the faculty members took vigorous efforts to explain the concepts to the students in the best possible way and made sure that the students did not lack any knowledge. A lot of courses were provided online to us during the lockdown period free of cost to ensure that students could utilize the lockdown period wisely and upgrade their skills from an industry point of view. SJIPR is a one-stop learning destination that I recommend to every aspiring Pharma graduate.



Ms. Kavita Yadav

Pursuing MBA in Pharmaceutical Management,
Narsee Monjee Institute of Management and Studies (NMIMS), Mumbai.

"Once a student, always a family member."

In retrospect, I can say that my 4 year journey as a B. Pharm graduate at the St. John Institute of Pharmacy and Research, Palghar, was one of the most memorable experiences of my life stuffed with challenges & opportunities to grow with wonderful people all around. All thanks to the Professor's assistance in my overall learning and development. I now have the honour of representing SJIPR in my current post-graduation institution, NMIMS. As many years of practice that my teachers & peers contributed, my ability to stand with confidence amongst clever minds was somewhere built within me. The B. Pharm course here is a well-balanced blend of theory and practical knowledge. The Faculty always encouraged me to try new things & to be as creative as I could be. They are very professional and friendly. I was pleased to be a part of my college's Student Council committee as a Ladies' Representative, which allowed me to participate in a variety of inter & intra-college events, which helped me refine my talents. Today, I can say that I am resilient enough and prepared for every opportunity coming my way. I would like to extend my sincere gratitude to our Principal Maam. On personal grounds, I am thankful for all those clever minds – My Friends, who were always there & created a learning environment that encouraged collaboration. Being a proud student at SJIPR, I believe it's an institution that every pharmacy enthusiast should strive to study.

Mr. Nihar Mandrakar

Pursuing M.Tech. (Pharm.)
Pharmaceutical Technology (Biotechnology),
NIPER, S. S. Nagar (Mohali).



It gives me great pleasure to be an alumnus of this institution SJIPR. The 4 years of graduation life has taught me so much, much beyond the confines of the curriculum. I am currently in a great place, and I owe it all to the excellent training I received at St. John Institute of Pharmacy & Research. The faculty members were not only professional but also altruistic, which always fascinated me about the pharmacy discipline. Their PhD journey inspired me to pursue research in my career. The SJIPR curriculum was not limited to academics, and I was fortunate to have exposure to the corporate sector through an internship during my four-year journey. The support from both teaching and non-teaching staff has always encouraged me to perform better academically. SJIPR added another dimension to my overall development by motivating me to participate in a range of extracurricular activities. SJIPR organized various competitions and sports events that helped refine the qualities of the students. The events also allowed me to leave a significant mark in university-level competitions. The college environment motivated me to dream big and guided me to achieve my goals with expedient planning. Additionally, I was fortunate to be a part of a well-established hostel. The SJIPR campus is an example of cleanliness and discipline. I am eternally grateful to the esteemed faculty at SJIPR for providing me with a solid support and guidance.

Ms. Shona D'souza

Pursuing Master of Science in Regulatory Affairs,
Northeastern University, Boston, Massachusetts



I hope this message finds you all in good health and high spirits. I am proud to be an alumnus of SJIPR, having graduated in the year 2023. As a Bachelor of Pharmacy graduate, this institute brought a profound transformation to my life. During my tenure at SJIPR, I not only acquired a robust foundation in pharmaceutical sciences but also honed a skill that has proven invaluable in both my personal and professional life - public speaking. The opportunities provided by the faculty and the supportive environment encouraged me to step out of my comfort zone and develop this crucial skill. I vividly recall my first apprehensive presentation in front of my professors and peers, as if it were yesterday. Fast forward to today, the skills and community outreach programs that SJIPR has guided me with have helped me get into the most profound university in the USA, Northeastern University. This growth would not have been possible without the guidance and encouragement of my professors and mentors, for whom I am deeply grateful. Personally, I have been able to foster deeply rooted friendships with my colleagues and connections with the alumni that will provide me with contacts all around the world. To all the current St. Johnites, I want to emphasize the significance of stepping up and seizing every opportunity to improve yourselves. Don't let fear hold you back; instead, embrace challenges as opportunities to grow. Every new opportunity may seem daunting at first, but with practice and determination, you can excel! I would like to extend my deep gratitude to SJIPR for the education and invaluable life skills it has provided me.

Ms. Tejal Parab

Pursuing MS in Pharmacology & Toxicology
NIPER-Ahmedabad



Upon receiving the results of my NIPER exam, I immediately reached out to my parents, who have been instrumental in my success, and then to my esteemed faculty members at the institute. These individuals have played a crucial role in nurturing my capabilities and enabling me to set and achieve ambitious goals. While the primary focus was on equipping us with the skills to become exceptional pharmacists, they also instilled in us the confidence and knowledge necessary to thrive in the real world. The institute as a whole has been pivotal in shaping me comprehensively. The technical and cultural events conducted here have not only brought waves of

joy but also imparted valuable lessons in event management, team coordination, and leadership skills. The lush green surroundings of the campus have consistently infused me with positivity and inspired me to reach for the stars. I extend my heartfelt gratitude to the dedicated lab assistants who have consistently emphasized the importance of practical, hands-on knowledge. Lastly, I want to express my deep appreciation to my circle of friends who have always stood by my side throughout this journey. As I bid farewell to this chapter of my life, I can confidently state that SJIPR has been, and will continue to be, a multidimensional learning hub for all aspiring pharmacists. The lessons I've learned, the guidance I've received, and the opportunities provided by this institute have been instrumental in shaping the person I am today.

CINEIMPACT: "ILLUMINATING THE INFLUENCE OF CINEMA ON BEHAVIOR AND LIFESTYLE"

In entertainment, cinema is a powerful medium that captivates our senses and impacts our behavior and lifestyle choices. Cinema has been a part of the entertainment industry for a long time. It creates a massive impact on people all over the world. In other words, it helps them give a break from monotony. Furthermore, it helps rejuvenate a person's mind.

Mirror Effect: Explore how on-screen characters and narratives mirror societal norms, influencing individuals to emulate certain behaviors and adopt particular lifestyles.

Cinematic Trends and Fashion: Uncover the dynamic relationship between cinema and fashion, tracing the evolution of trends inspired by iconic movie moments and characters that shape our style.

Social Media's Cinematic Lens: Examine social media's role in amplifying cinema's impact on behavior as viewers share and emulate their favourite movie moments, creating online communities around cinematic influences.

Cinematic Reflections in Relationships: Investigate the portrayal of relationships in movies and how these depictions contribute to societal expectations, influencing perceive and navigate their relationships.

Psychological Impact of Cinematic Storytelling: Delve into the psychology behind storytelling in cinema and its ability to shape perceptions, beliefs, and decision-making processes in our everyday lives.

Cinema and Cultural Identity: Analyze how cinema reflects cultural values and traditions, influences individuals' connection to their heritage, and shapes cultural identities.

Cinematic Wellness: Explore the therapeutic aspects of cinema, examining how movies can impact mental health, inspire personal growth, and contribute to overall well-being.

Cinematic Critique and Responsibility: Discuss the ethical considerations of cinematic influence, exploring the responsibility of filmmakers and the industry in shaping narratives that contribute positively to society.

Conclusion:

Cinema is a catalyst for change. It challenges norms, broadens our perspectives, and fosters compassion. Its influence extends beyond the screen, shaping our aspirations and etching its significance into our lives.

Compiled by
Dhruvi Khandelwal
F. Y. B. Pharm.

BREAKTHROUGH FOR ALZHEIMER PATIENTS

Alzheimer's's disease (AD) is a neurodegenerative disorder that accounts for 60-70% of dementia cases. It typically starts with memory problems and then progresses to issues with language, disorientation, mood swings, and behavioral challenges. Genetic and environmental factors, including the apolipoprotein E (APOE) gene, can contribute to the complexity of the disease. The APOE gene is involved in making a protein that helps carry cholesterol and other types of fat in the bloodstream. Problems in this process are thought to contribute to the development of Alzheimer's. Amyloid plaques, neurofibrillary tangles, and neuronal loss characterize AD. Diagnosis involves a medical history, cognitive tests, and ruling out other causes, while treatments can only provide temporary symptom relief as there is no cure. The global burden of Alzheimer's is significant, with around 50 million people affected worldwide. In a significant breakthrough, the US Food and Drug Administration (FDA) has given accelerated approval to Lecanemab (Leqembi) to treat Alzheimer's.

Although Lecanemab did not meet the 12-month primary endpoint in a phase 2 trial, it demonstrated reduced amyloid plaques and consistent decline reduction at 18 months. Priced at \$26,500 per patient annually, Lecanemab can bind to and eliminate A aggregates, providing a significant advancement in Alzheimer's treatment. Its approval expands coverage through Medicare, marking a monumental stride in Alzheimer's research and treatment. Eisai and Biogen are committed to working together to ensure accessibility to eligible patients through educational initiatives and support programs, in addressing this impactful disease.

Reference:

- 1] Singh, Gautam et al. Expert Opinion on Biological Therapy. 2020
- 2] FDA Grants Traditional Approval for LEQEMBI® for the Treatment Alzheimer's's Disease.. 6, 2023

Compiled by:
Merlin Kennedy
Final Year B. Pharm.

INVESTIGATING THE POTENTIAL OF MARINE NATURAL PRODUCTS FOR DRUG DEVELOPMENT.

Marine biotechnology uses marine organisms for product development, including marine natural products. Marine microorganisms have potential medicinal properties, but specialized equipment is needed to extract them. As highlighted in this review, aquatic organisms and plants play a crucial role in drug discovery and extraction. Over 3500 natural products with pharmacological benefits are found in marine biodiversity. Bioactive compounds can be found in marine invertebrates like sponges, myxozoa, mollusks, and slugs. Microorganisms like sponges and chitidians contribute to over half of the natural marine products discovered.

History of Marine Natural Products Drug

Discovery: The production of ribopentose nucleosides from sponges in the 1950s initiated marine natural product discovery and the subsequent development of anticancer drugs. Since the mid-70s, marine exploration has uncovered diverse bioactive molecules in various organisms. These discoveries sparked interest in marine-derived compounds for medicine due to their unique chemical classes.

Method for extracting and isolating Bioactive compounds:

Microwave-assisted extraction (MAE) rapidly heats and agitates molecules in natural materials, simplifying substance extraction. This method works well for challenging sources like algae or sponges with strong cell walls. Efficiency is increased with direct internal heating. Closed systems aid in extracting substances at elevated temperatures. The effectiveness of solvents varies, with polar solvents being more effective than non-polar ones.

Ultrasonic-assisted extraction (UAE) Ultrasonic waves create cavitation bubbles to accelerate extraction. Decreases extraction time and boosts yields from natural matrices. Extreme conditions can damage cell walls and membranes to enhance chemical movement. UAE occurrences vary between high intensity-low frequency

and low intensity-high frequency.

Supercritical Fluid Extraction (SFE) is a safer alternative to solvent-based techniques. It extracts compounds using supercritical CO₂ solvents. CO₂ is both food-safe and environmentally friendly. Methanol can enhance extraction efficiency by improving in CO₂'s low polarity. SFE offers temperature and pressure adjustability, extracting marine bioactives without solvents. Depressurization converts CO₂ to gas, facilitating extract recovery. Ongoing research aims to find greener solvents due to CO₂'s low polarity despite its

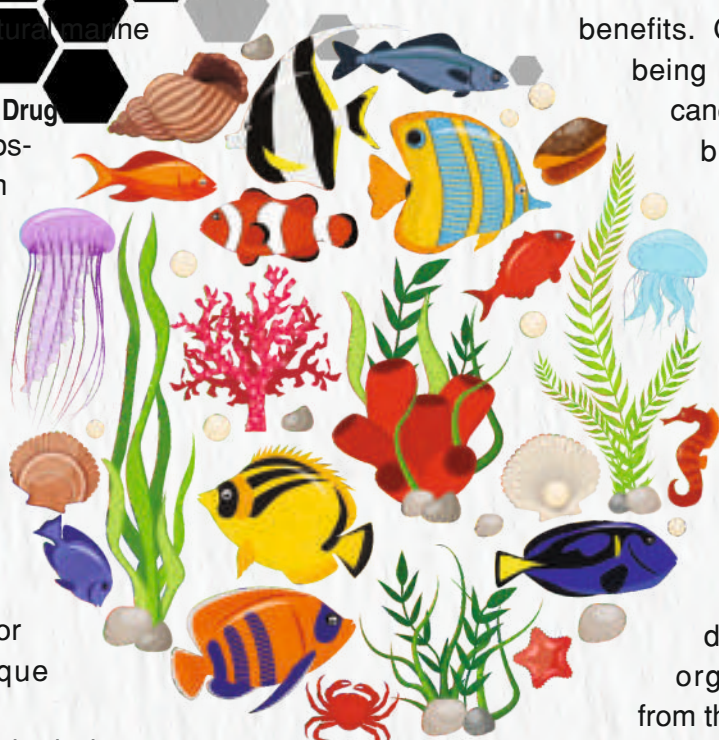
benefits. Clinically, Lurbinectedin is being tested for small-cell lung cancer, showing notable efficacy but risks of myelosuppression. Despite risks and varying efficacy, these compounds hold promise in clinical applications for different cancer types and medical conditions.

Conclusion:

This article highlights the potential of marine biotechnology in drug discovery using diverse organisms and compounds from the seas. Advanced methods extract and analyze marine biodiversity for medication development, addressing sustainability and complexity. Notable products like trabectedin, cytarabine, and ziconotide demonstrate marine biotechnology in medicine. Collaboration, responsible resource management, and the promise of novel drugs drive the field's bright future while promoting ocean conservation for future generations.

References:

1. Jha, R et al.. Marine Drugs 2004, 2 (3), 123–146.
 2. Villa, F. A. L. Immunopharmacology and Immunotoxicology 2010, 32 (2), 228–237
 3. Jha, R et al. Nature Chemical Biology 2006, 2 (12), 666–673.



Compiled by:
Roshan Dave.
S. Y. M. Pharm.

"FROM LABS TO LIFE: UNDERSTANDING AI'S DAILY IMPACT AND DIVERSE APPLICATIONS"

AI is enhancing efficiency in daily tasks and decisions. It improves experiences through personalized suggestions, healthcare diagnosis, and self-driving vehicles. This article explains AI impact on various sectors and debunks privacy and job-related myths. Readers will understand AI relevance through expert stories and insights. By 2024, AI will significantly impact human decisions and routines across various sectors. It is valuable and practical, from mobile usage to complex decision-making. Voice assistants, humanoid robots, and self-driving cars demonstrate AI potential for driving human innovation. AI integration raises ethical, societal, and legal concerns that must be studied and addressed. ML and NLP enhance the human-AI relationship by improving routine tasks. AI simplifies daily activities and reshapes our existence with humans.

AI is the intelligence of machines that is distinct from human or animal intellect. AI trains on large datasets to model human behavior, problem-solving, and learning for new capabilities. AI, like human intelligence, continuously learns and innovates. AI uses algorithms to replicate human behaviours such as learning and problem-solving. Scientists use vast datasets to train AI systems, enabling them to acquire new features and capabilities like human intelligence. AI's iterative learning enables it to surpass initial programming limitations. Advancements in machine intelligence rely on human intelligence, including knowledge, creativity, experience, and innovation. The everyday use of facial recognition in smartphones and CCTV systems poses a privacy risk by granting access to unwanted individuals. Constant CCTV monitoring raises concerns about effectiveness and restricts personal expression and freedom. Predictive capability raises questions about data collection and limits on personal choice, affecting spontaneous buying experiences. Digital voice assistants in smartphones and households accept speech commands but pose security risks. Deep learning concern, privacy can be compromised when individual audio files or unauthorized recordings are shared. AI algorithms enable AI to process vast amounts of geographical data and satellite imagery for real-time updates in navigation apps like Google Maps and Waze. CNN and GNN algorithms in MIT's navigation model quickly update routes and explore hidden areas in satellite data.

Bike lanes and parking information are included on digital maps. AI and IoT empower smart home appliances to learn and operate autonomously. IoT enables object-internet connection; AI facilitates data learning. AI's five steps (create, communicate, aggregate, analyze, act) improve device response by providing practical data-driven insights. Human teachers are still necessary for high-quality instruction despite the widespread use of AI in education.

AI can revolutionize personalized learning in schools, but merging it with human interaction is a significant hurdle. Program acceptance at colleges and universities is hindered by insufficient financing and available data. Expect a significant rise in AI tutors and VR-based learning in the next five years to complement, not replace, human instruction in classrooms. AI supports robotic surgery, patient monitoring, clinical support, and health system administration. AI's potential has grown with recent advancements in surgery assistance and threat detection from social media. However, the challenge of developing engagement techniques persists.

Conclusion: The study achieves four main goals: it clarifies technologies, legal and ethical issues, industry prospects, and resource allocation for AI. It assists with AI governance planning on a global scale.

References:

1. Artificial intelligence and its impact on everyday life- by Ruth Brooks
2. Living with Artificial Intelligence. An Analysis of Moral and Philosophical Implications of Artificial Intelligence in our Everyday Life. Author: - Maurizio Balistreri, Nicola Liberati

Compiled By:
Pratiksha Umale
S. Y. M. Pharm.

MIND-CONTROL MASTERS: OPHIOCORDYCEPS UNILATERALIS

Introduction:

Nature has a way of fascinating and sometimes horrifying us with its creations, and *Ophiocordyceps unilateralis* is a prime example of this phenomenon. This parasitic fungus, commonly known as the “zombie-ant fungus,” has not only captured the imagination of scientists but has also made its way into popular culture through various cinematic representations.

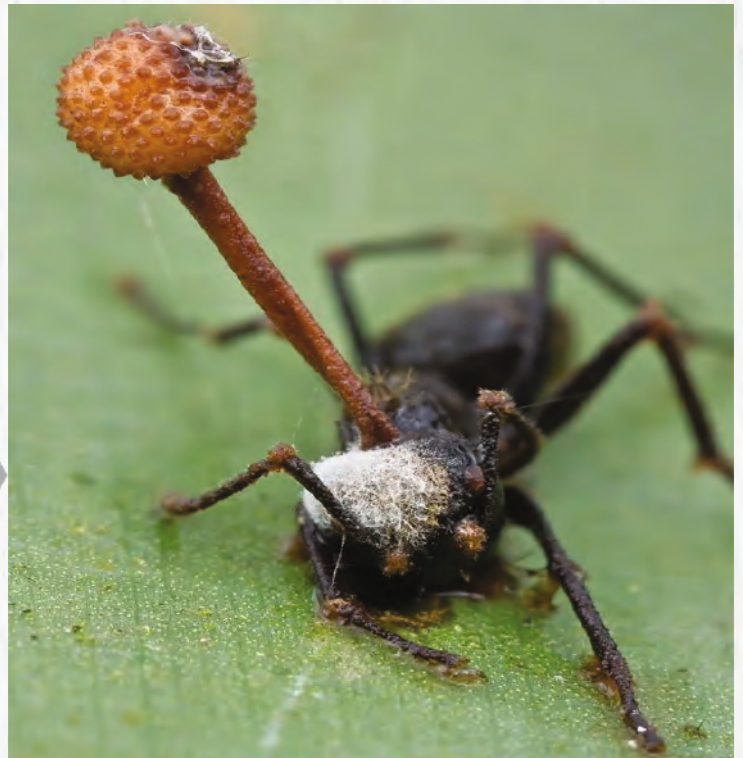
This article delves into the intriguing world of *Ophiocordyceps unilateralis*, exploring its biological source, phytochemicals, metabolic effects, and the reasons behind its chilling moniker.

Cinematic Representations: Before diving into the scientific aspects, let's take a moment to appreciate the cinematic representations of *Ophiocordyceps unilateralis*. In popular culture, this fungus has been portrayed as a nightmarish organism that takes control of its host, often an ant, turning it into a mindless zombie. Films like “The Last of Us” and episodes of “Planet Earth” have showcased the fungus's ability to manipulate the behavior of its host, creating suspenseful and horrifying scenes.

Biological Source: *Ophiocordyceps unilateralis* is a parasitic fungus that primarily targets ants, although it can also infect other arthropods like beetles. It is commonly found in tropical rainforests, where it lurks on the forest floor, waiting for unsuspecting ants to cross its path. Once an ant becomes infected, the fungus infiltrates its body and ultimately takes control of its nervous system.

Phytochemicals: The secret behind the mind-control abilities of *Ophiocordyceps unilateralis* lies in its phytochemical arsenal. The fungus produces a variety of bioactive compounds, including alkaloids and peptides. One of the most important compounds is a specialized fungal metabolite called cordycepin. Cordycepin interferes with the ant's neurotransmitter function, effectively hijacking its central nervous system and forcing it to climb vegetation. This bizarre behavior allows the fungus to spread its spores from a higher vantage point, increasing the chances of infecting other unsuspecting ants below.

Effect on Metabolism: The takeover of an ant's central nervous system by *Ophiocordyceps unilateralis* is akin to a horror story. As the fungus grows within the ant's body, it manipulates its metabolism to its advantage.



The ant's normal activities, such as foraging for food, cease, and it becomes a puppet to the fungus's will. Eventually, the fungus bursts through the ant's exoskeleton, killing it in the process, and releases its spores to infect new hosts.

The “Zombie Drug” Moniker : The term “zombie drug” is often used to describe *Ophiocordyceps unilateralis* due to its ability to control the actions of its host. The ant, under the fungus's influence, exhibits zombie-like behavior by climbing vegetation, clamping onto leaves or twigs, and eventually dying in an elevated position. This spectacle has led to comparisons with the undead, hence the moniker “zombie-ant fungus.”

Conclusion: *Ophiocordyceps unilateralis* is a biological marvel with a dark side. Its cinematic representations have captivated audiences, showcasing its chilling ability to manipulate its host's behavior. Its biological source in tropical rainforests, potent phytochemicals, and profound effects on metabolism make it a subject of fascination for scientists and nature enthusiasts alike. While the “zombie drug” nickname may be unsettling, it aptly captures the eerie spectacle of this parasitic fungus's life cycle, reminding us that nature's creations are often both horrifying and awe-inspiring.

Compiled by
Crayden Rosario

UNVEILING THE SERIAL KILLERS: A CLOSER LOOK AT HEALTH HAZARDS LURKING IN EVERYDAY LIFE

Our health is at risk from a commonly overlooked danger. It is present in the food and medication we consume, not caused by notorious individuals like serial killers. Hazardous substances silently attack our well-being, resembling "serial killer". Labeling them as such might mislead and divert attention from less sensational but more pervasive perils that can harm us unknowingly. Let's delve into the scientific world of these dangerous substances, resembling lurking predators causing health issues. High blood pressure, the silent killer, can impact people without symptoms. Over time, it damages arteries and organs, leading to severe health complications like heart disease and strokes. Monitoring blood pressure regularly is crucial for risk detection. Elevated cholesterol levels increase the risk of heart disease by narrowing arteries. Unlike sudden attacks, high cholesterol gradually impacts the body, necessitating routine screenings and dietary awareness. Type 2 Diabetes can disrupt insulin functions and harm vital organs. It is crucial to monitor glucose levels and support metabolic health. Osteoporosis silently poses a threat by weakening bones and increasing the risk of fractures. Strengthen your skeletal structure with calcium, vitamin D, and weight-bearing exercises. Trans fats in processed foods can increase heart disease risk by raising harmful cholesterol levels. Trans fats harm cardiovascular health and are found in packaged snacks and baked goods.

HFCS, a sweetener in drinks and processed foods is linked to obesity, diabetes, and liver disease. HFCS quietly enters our diet through sodas, salad dressings, and more, contributing to health concerns. High sodium intake is associated with hypertension and the risk of heart disease and stroke. Processed foods and restaurant meals often contain hidden salt, making it challenging to track sodium consumption. The use of antibiotics in animal farming contributes to antibiotic resistance, posing a significant threat to human health. Antibiotic residues in meat products show the connection between food and pharmaceutical industries. Certain pharmaceuticals and chemicals can disrupt the endocrine system, leading to hormonal imbalances and long-term health problems. Pharmaceuticals and pollutants contain endocrine disruptors, highlighting the importance of awareness and regulation. Recognizing invisible threats to our health is crucial. Attention and vigilance are needed for the silent killers in our daily meals and pharmaceuticals. We can protect ourselves and uncover health hazards by understanding their scientific impact and making informed choices. Being aware helps us lead healthier lives and reduce the impact of silent killers.

Compiled by:
Aben C Binu
F. Y. B. Pharm.

MEDICINE'S DICHOTOMY: FROM PANACEA TO PERIL

Medical practices should be approached with caution to avoid harm. Minor errors or misjudgments in medicine can harm patients due to its complex and contradictory nature. Incorrect medicine usage can lead to side effects, addiction, or death. Medical professionals must carefully consider the benefits and risks of drug use. Careful medical professionals prioritize patient safety and societal well-being during treatment. Adherence to guidelines is crucial for optimal treatment and risk prevention in medicine. Diagnosis is crucial before prescribing treatment. Before prescribing a new medicine, assess the patient's medical history, allergies, and other medications. It is crucial to explain each treatment option's risks, benefits, and potential side effects to the patient. Correct medication usage and close monitoring for adverse reactions are necessary for patients. Regularly review and adjust the treatment plan as needed. Staying informed about medical advancements is crucial. By building trust and providing support, medical professionals can adhere to ethical standards in patient care. Treatments may help symptoms but not address root causes. Failure to address the underlying factors may result in the disease persisting or worsening over time. The concept of medicine

dichotomy highlights the importance of personalized and patient-centered healthcare instead of a one-size-fits-all approach. Patient-specific factors must be considered by healthcare providers when making treatment decisions. Comprehensive healthcare targets the root cause of diseases. Addressing the underlying causes of the disease allows healthcare providers to develop a treatment plan that aims to prevent its development or progression. Lifestyle modifications, including diet and exercise changes, are often involved in this approach. Psychological support may be necessary to address disease factors influenced by mental health. Additionally, addressing disease causes can prevent related health issues. Treating high blood pressure with medication may lower levels, but addressing underlying factors like poor diet and lack of exercise can prevent other cardiovascular problems. It takes a comprehensive approach to address underlying factors of diseases in healthcare.

Compiled by:
Vaishnavi Gohri
F. Y. M. Pharm.

Into the flawless Shades of Dreams.

She wins back to countless things,
Smoothly back again to where it begins.

Dream big, fly high;

Until you reach the Glorious Sky

The shades from within the heart

Grasps and paints

an Imaginary fantasy

Where galaxy binds towards gravity

Into the pretty world of illusions.

where mind sets towards confusion

Everything you hegemonize,

And the beloved you prioritise

Beauty Shimmers in nightmare.,

where everything glitters in glare.

chase your stars, for life is short.

Don't let your dreams fall apart

Dream big, fly high;

Until you reach the sky.

Grania Almeida

S. Y. B. Pharm.



सूरज सा एक दिन चमकूंगा..

चमकना चाहता सूरज सा

जुगनू सा में हूँ अभी

माना मंजिल दुर है

पर कोशिश है भरपूर अभी

घोर अँधेरा चाहे छाए

राहों में कांटे बिच्छ जाए

अपना काम हर वक्त करूंगा

सूरज सा एक दिन चमकूंगा...

सूरज सा एक दिन चमकूंगा...

मेहनत के पथ पे चल के

सारे सपने सच करूंगा

सूरज सा एक दिन चमकूंगा...

सूरज सा एक दिन चमकूंगा...

ये इतना आसान ना होगा

लोगों का विश्वास ना होगा

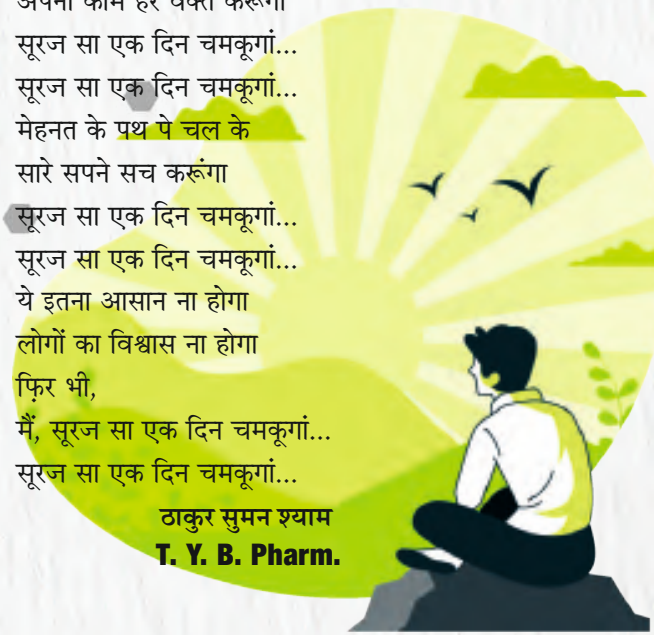
फिर भी,

मैं, सूरज सा एक दिन चमकूंगा...

सूरज सा एक दिन चमकूंगा...

ठाकुर सुमन श्याम

T. Y. B. Pharm.



The Mental Brawl!

Every gasp leaves me a trauma,

Mental health, jeopardizing drama!

Antiquing days, when I counted on me,

Computing my profile, where's my glee?

I ponder and ponder but can't conclude,

Mental illness if I sound rude,

Agony, frustration is all I get,

I brawl, I lose what's my fate?

But how about people who are really ill?

How about people who never feel?

Health they possess, but termed as Mental

Specialty abled, how can they handle?

Asylumming them, where they're immured,

Monochrome life that never hues!

Everyone has red, few possess blue.

We gashed their wings and they never flew!

Mr. Amaan S. Khan

Final Year S. Pharm.



गैरसमज !

झाडाखाली बसून

गप्पा नुसत्या मारत होतो,

जमले खूप सारे मित्र

सुरुवातीला एकटाच मी चालत होतो.

खोल स्वतःला समजून मी

खळखळाट करित वाहत होतो.

छोट्याश्या दगडांना धडकून मी

उथळ असल्याचे जाणवत होतो.

रंग सारे दुर्लक्ष करून

अंधळ्याचे स्तोम मी माजवत होतो.

उधळून ते सारे रंग परत

स्वःतहालाच मी रंगवत होतो.

काळ्या गुळगुळीत दगडावर

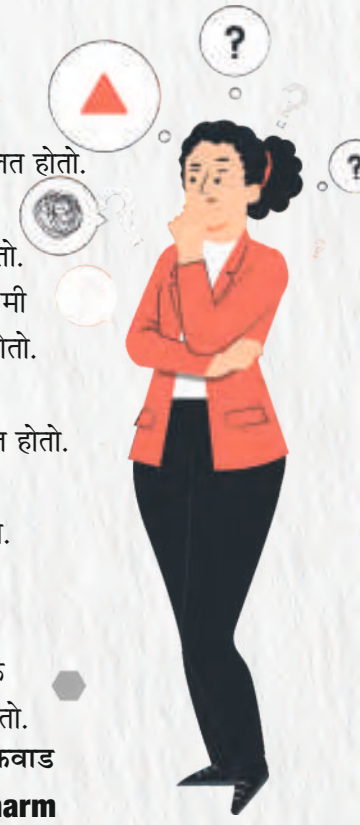
नशीब साडे वाहत होतो.

गिरवेल मी परत तोच खडक

म्हणून खडूंना मी घाबरत होतो.

ओम गायकवाड

T. Y. B. Pharm





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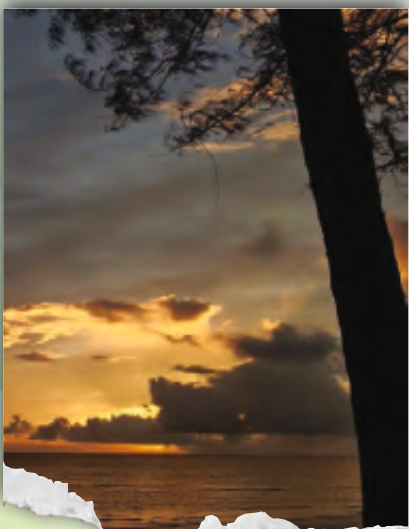
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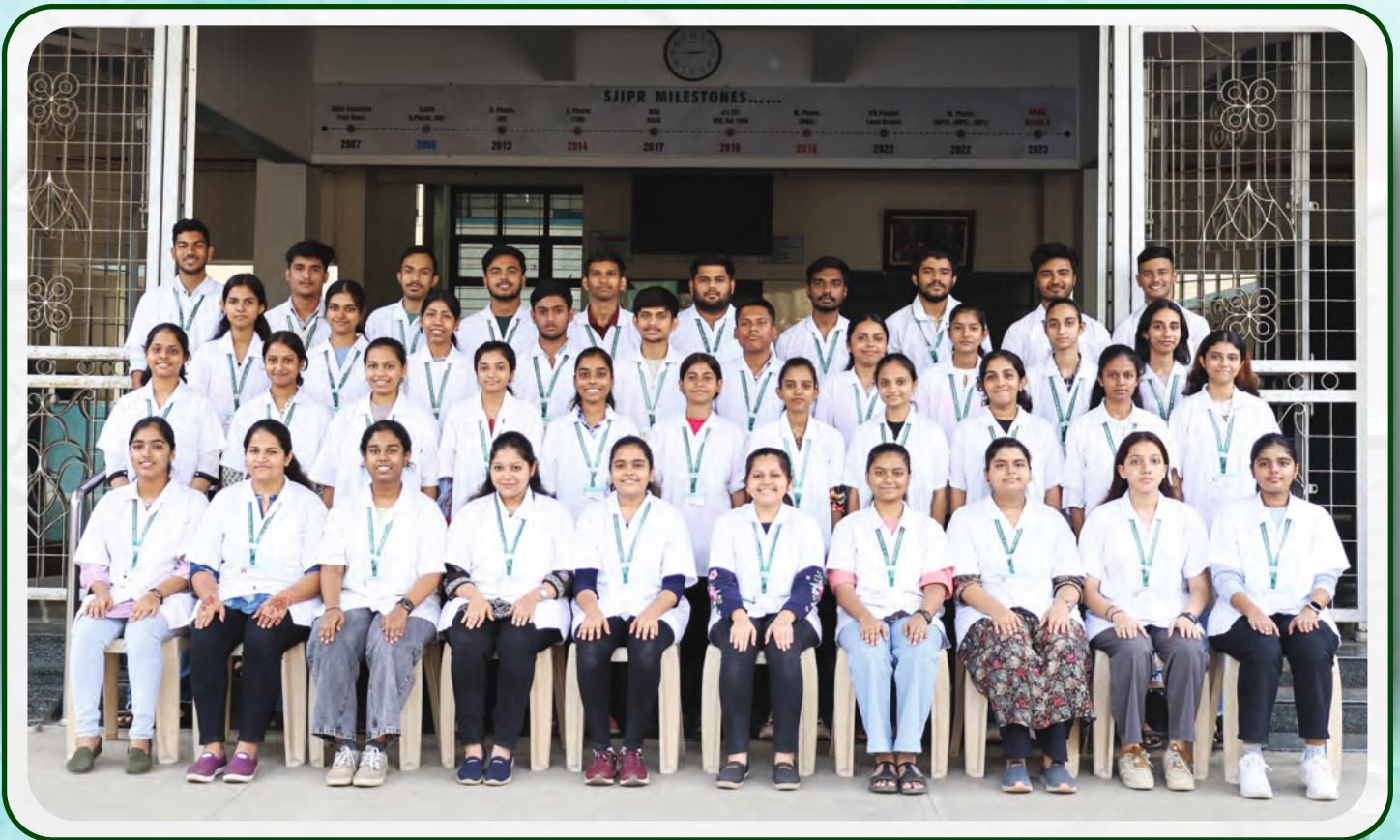


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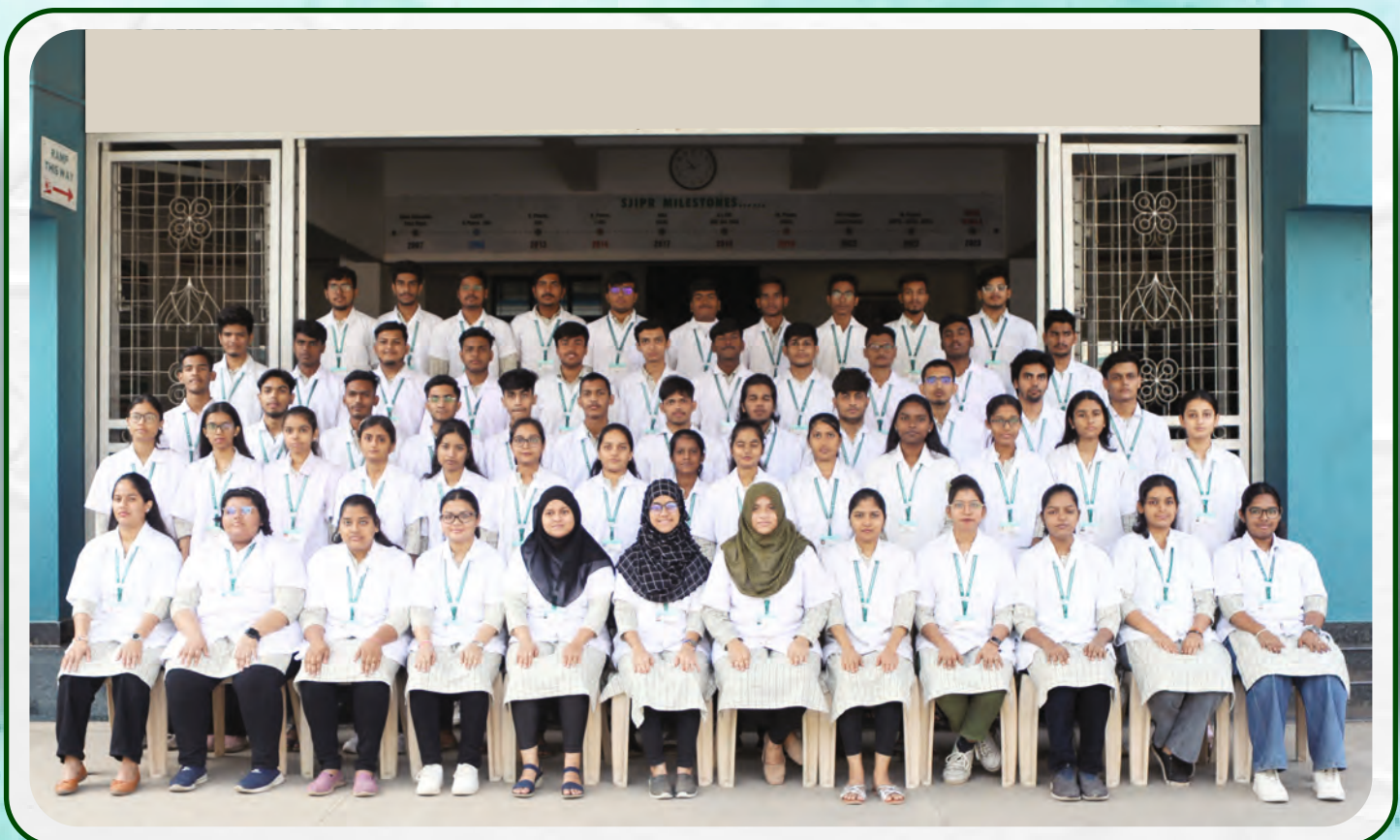
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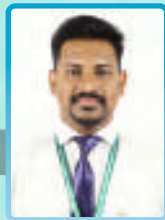
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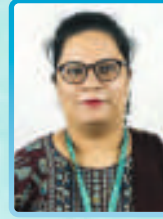
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