



JSS College of Pharmacy, Rocklands, Ooty

(An ISO 9001 : 2015 Certified Institution)

(Ranked 7th in India by NIRF - 2021)

(QS 3 Star in Pharmacy Program)

Transcending Pharmaceutical Research & Innovation

Research Brochure

 JSS ACADEMY OF HIGHER EDUCATION & RESEARCH (DEEMED TO BE UNIVERSITY) MYSURU	 2021 NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL A+	 NATIONAL INSTITUTIONAL RANKING FRAMEWORK 34th (University Category)	 ASIAN UNIVERSITY RANKINGS 291-300 31st in INDIA	 THE WORLD UNIVERSITY RANKINGS 2022 351-400 2nd in INDIA	 ARIIA ANAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS 2020 Band A Rank Band 6 to 25
 NATIONAL INSTITUTIONAL RANKING FRAMEWORK JSS Medical College - 24 th ★ JSS Dental College & Hospital - 12 th ★ JSS College of Pharmacy, Mysuru - 9 th ★ JSS College of Pharmacy, Ooty - 7 th					



JSS College of Pharmacy, Ooty

Has Secured

7th Rank



Pharmacy

INDIA RANKINGS 2021
MINISTRY OF EDUCATION,
GOVERNMENT OF INDIA





JSS College of Pharmacy, Rocklands, Ooty

(An ISO 9001 : 2015 Certified Institution)
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Transcending Pharmaceutical Research & Innovation

RESEARCH BROCHURE

 2021	 A+	 34th (University Category)	 291-300 31st in INDIA	 351-400 2nd in INDIA	 2020 Band A Rank Band 6 to 25
 JSS Medical College - 24th ★ JSS Dental College & Hospital - 12th ★ JSS College of Pharmacy, Mysuru - 9th ★ JSS College of Pharmacy, Ooty - 7th					

WORK IS WORSHIP

His Holiness Jagadguru Dr. Sri Shivarathri Rajendra Mahaswamiji, the 23rd pontiff of the Sri Suttur Math, was born on 29.8.1916 and ascended the holy seat on 24.02.1928 when he was hardly twelve years. He took up the responsibilities of the Srimath along with his guru Manthra Maharshi Jagadguru Sri Shivarathreeshwara Mahaswamiji. A firm believer in the good of one and all, he was at the helm of affairs of the Srimath for more than half a century – a period full of events and activities. He sought nothing but welfare of all.

He completed his primary education at Suttur and took to studying Sanskrit in Mysuru at his young age. During this time, Swamiji used to engage in lengthy spiritual and academic discussions with spiritual leaders. To pursue higher education, Swamiji went to Varanasi. However, as per the desire of his predecessor His Holiness Jagadguru Sri Shivarathreeshwara Mahaswamiji and Sri Gowrishankara Mahaswamiji of Panchagavi Math, he returned to Mysore to continue studies and involved in social service.

He was a scholar in Kannada and Sanskrit and a patron of art and literature. He was thoughtful and sensitive to an astonishing level. Unlike others, he had mastered the art of turning every good thought of his into a reality. The wisdom of all his predecessors seemed to have culminated in him. Every step he took was a step forward in search of new areas of service. That is how he could build a galaxy of educational institutions. He served the society tirelessly, without any selfish ends. His Holiness started a hostel in 1940s at Niranjanalaya (his rented residence) for needy students in Mysuru. Primary Schools, High Schools, PU Colleges, Degree Colleges, Engineering Colleges, Medical College, etc. soon followed. He also established many Trusts and Societies such as JSS Medical Service Trust, Sri Shivarathreeshwara Rural Development Foundation, JSS Sangeetha Sabha, Shivarathreeshwara Endowment Trust, Akhila Bharatha Sharana Sahitya Parishath, etc. that catered to many social needs.

Sri Rajendra Swamiji who succeeded the Srimath with a great legacy did not limit himself only to religious activities but responded to the problems of inequality, poverty and misery in society. The services of the Srimath were extended accordingly to the needs of society. Much before India attained independence, Swamiji had identified that lack of knowledge was the cause of several problems faced by the masses and thus started the JSS Mahavidyapeetha (1954) for providing education. Under the aegis of JSS Mahavidyapeetha, he began schools and



**RAJAGURUTHILAKA HIS HOLINESS
JAGADGURU DR. SRI SHIVARATHRI
RAJENDRA MAHASWAMIJI**

FOUNDER PRESIDENT OF JSS MAHAVIDYAPEETHA

colleges for Jnana Dasoha (education), hostels for Anna Dasoha (boarding and lodging) and hospitals for Arogya Dasoha (health services) that led to all-around social development. He was very compassionate to support the poor and the down trodden and provided opportunities to thousands who needed shelter.

The early period of his pontification was very hard. It was often said that he had to struggle relentlessly to get even a small work done. A single-minded dedication to a task aimed at the welfare of all prompted him to tread the path of sacrifice. His Holiness attained heavenly abode on 6th December, 1986, and his shrine can be visited at Suttur. Sri Jayachamarajendra Wadiyar conferred on His Holiness the title of 'Rajagurutilaka' in 1970 as a recognition of his immense contribution to society. Posthumously, Sri Shivaratri Rajendra Mahaswamiji was awarded honorary doctorate by the University of Mysore in 1989.





HIS HOLINESS JAGADGURU
SRI SHIVARATHRI

DESHIKENDRA MAHASWAMIJI

CHANCELLOR

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH,
MYSURU

ॐ
|| SRI SHIVARATHREESHWARAYA NAMAHA ||

JAGADGURU SRI SHIVARATHRI DESHIKENDRA MAHASWAMIGALU
JAGADGURU SRI VEERASIMHASANA MAHASAMSTHANA MATH SUTTURU SRIKSHETHRA 571 159

SRI SUTTUR MATH (MYSORE BRANCH), MYSORE 570 025

Date : 5.5.2021

Message

The Research Brochure that is being brought out by the JSS College of Pharmacy, Ooty is praiseworthy, and we are happy that the research potential of the college is showcased for the larger interest of the academics and pharmaceutical industry. Today, it is an acknowledged fact globally that India is the pharmacy of the world, and capable of producing high-quality drugs at a low cost through research and innovation. The pandemic has caused untold misery to the people all over, yet provided an opportunity for the Indian pharmaceutical industry to compete with world Pharma MNCs. India operates a significant number of WHO Good Manufacturing Practices compliant plants, and ranks 14th globally in terms of value and 3rd in terms of volume. Academia contributes significantly to this astonishing growth, through young and motivated researchers. JSS College of Pharmacy, Ooty with its track record of sound academic culture would be able to provide the much-needed vital inputs to the Pharma industry through its publications, consultations, and collaborations. This brochure would certainly serve as a reference guide for the industry.

While commending the efforts of the faculty and the students in this regard, we hope the college would continue to stay ahead in its academic excellence for the growth and wellbeing of the society

Om Tat Sat

HH Jagadguru
Sri Shivarathri Deshikendra Mahaswamiji

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Dr S.P. Dhanabal, Principal, JSS College of Pharmacy & **Dr. M.J.N. Chandrasekar**, Head, JSS School of Life Sciences, met His Excellency, The President of India **Shri Ram Nath Kovind** and presented a brief profile of Jagadguru Sri Veerasimhasana Mahasamsthana Math, JSS Mahavidyapeetha & JSS Institutions at Ooty.



During their interaction with the Honourable President of India **Shri. Ram Nath Kovind**, **Dr. S.P. Dhanabal** & **Dr M.J.N. Chandrasekar** briefed about the unique and diverse strengths of JSS Institutions at Ooty in terms of Academic Excellence, Research Innovations & Outreach Activities.

Preface



The JSS College of Pharmacy, Rocklands, Ooty is a renowned centre for pharmacy education, research & innovation. The college exhibits a higher education brand synonymous with the most exemplary international standards of academic excellence. A notable and distinctive feature of the research and innovation at our institution is its sustained commitment to social responsibility, enhancing people's lives through knowledge transfer and education.

Our infrastructure, expertise, and ecosystems are among the best-in-class that facilitate the advancement of pharmaceutical research and innovations and deliver life-changing impacts to the society. As a dynamic and forward-looking research-led institution, we promote discovery at the frontiers of knowledge with substantive impact for basic, translational, and cross-disciplinary research, knowledge transfer, and innovation.

Evidently, we are ranked 7th (among 351 pharmacy colleges) in the "National Institutional Ranking Framework" (2021) by the Ministry of Education, Govt. of India. Such achievements of the JSSCPO have contributed enormously to the progress made by JSS Academy of Higher Education & Research, Mysuru, our affiliating university in the world rankings.

Our culture of research and innovation has always been valued and driven by exemplary engagements with stakeholders, including industry, health regulatory bodies, alumni, and others.

Thus, we thought to reach you all through this research brochure, "Transcending Pharmaceutical Research & Innovation," to showcase the glimpses of our journey, strengths, and our strategic way forward.

More importantly, through this brochure, we extend our sincere gratitude for your invaluable supports throughout our journey "Thank you" and we believe that you continue to support us to support our strategic path ahead, delivering sustained excellence in pharmaceutical sciences Research & Innovation.

Join us. Big ideas live here.

Dr.S.P.Dhanabal M.Pharm., Ph.D., FIC
Principal

MESSAGES



DR. C. G. BETSURMATH

Executive Secretary,
JSS Mahavidyapeetha,
Mysuru

Dr. C.G. Betsurmath
KAS (Retd.), Ph.D., MBA
Executive Secretary



JSS Mahavidyapeetha
Jagadguru Dr. Sri Shivarathri Rajendra Circle
Ramanuja Road, Mysuru - 570 004

MESSAGE

The entire globe now recognizes the exigency of healthcare transformation, and I am delighted to witness that one of our prestigious institutions, JSS College of Pharmacy, Ooty spearheading healthcare transformation with their distinguished track in pharmaceutical research & innovation. They are always at the forefront of their research credentials, capabilities, innovations, and resources.

I congratulate the leadership and team for the compilation of this book as it is one of the paramount priorities, and it is high time to cement Industry-Institution collaborations.

As collated in this book, the research accomplishments of JSSCP, Ooty have impacted commendably to benchmark our institutions nationally and globally. Also, it is praiseworthy that the JSSCP, Ooty research outcomes have a remarkable reach to broader capacities both within and beyond borders. The research portfolio showcased in this brochure is impressively collating their strengths in advancing healthcare research and innovation.

I firmly believe that JSSCPO can captivate external partners and ventures, and together they are much more to unveil shortly.

I congratulate the entire team at JSSCPO and my best wishes.

Dr C G Betsurmath
Executive Secretary



Shri S. K. Varshney
 Adviser & Head
 International Bilateral Cooperation Division
 Department of Science & Technology



Dr. Neeraj Saxena
 Adviser, Institutional Development Cell
 All India Council for Technical Education (AICTE)
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S.K. VARSHNEY
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GOVERNMENT OF INDIA
 MINISTRY OF SCIENCE AND TECHNOLOGY
 DEPARTMENT OF SCIENCE AND TECHNOLOGY
 TECHNOLOGY BHAVAN, NEW MEHRAULI ROAD
 NEW DELHI-110 016

Dated 12-05-21

D.O. No.

Message

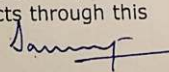
It is great pleasure to know that JSS College of Pharmacy, Ooty is bringing out a research brochure highlighting the research strengths and activities of the college and its departments.

Science and technology is the bedrock upon which the country relies for its knowledge, enterprises rely for their success, and the people rely for a better life. Present Pandemic has reinforced our belief that collaboration is the key for real success of any research and world over people are looking for research based solutions, be it new therapeutics (Vaccines or oral medication), new disinfectants, anti-viral coating as well as studying virus behaviour and to protect society from future virus attacks. This requires collaboration at different levels academic collaboration, industry-academic collaboration, academia- society collaboration, International collaboration, etc. I believe strongly that JSS College of Pharmacy, Ooty, has a proven track record of research and commercialization of innovations from the institute. I am sure that this informative research brochure will make a bridge between JSS College of Pharmacy, Ooty, and Pharma industries to develop indigenous technologies for the economic and social benefits for the people.

This initiative from the college is the need of the hour and will motivate for many other institutes in the near future.

I am confident that this brochure will add value towards technology development in the pharma industries in collaboration with JSS College of Pharmacy, Ooty.

My best wishes and advanced congratulations for the future developments of the institution and anticipating many commercial products through this platform.


 (S.K. VARSHNEY)

I am delighted to note that JSS College of Pharmacy, Ootacamund is bringing out an exclusive brochure showcasing its achievements, covering the entire spectrum of its research initiatives. The achievements do not surprise me as I have known the College since the year 2000, when it was selected to set up a TIFAC-Centre of Relevance and Excellence in Herbal Drugs, characterized by functional industry-academia linkages. Even though the primary mandate for it was human resource development, it impressed us with achievements on R&D front also.

The science and evolution of pharmaceuticals is forever in a dynamic state, marked by the introduction of new therapies through rapid advancements in drug research and technology. At the basic level, the seeds for such discovery processes are sown at the level of the pharmacy institution and the JSSCPO continues to lead in not only research programs across the various disciplines of pharmacy specialities but also sourcing graduates, to sustain them; thus, remain a much sought after institution among the students and researchers in pharmaceutical sciences. I firmly believe that it can impress external partners and ventures, and together do much more for the humanity.

The research portfolio showcased in the brochure is impressively collating strengths of JSSCPO in advancing healthcare research and innovation. This must have emerged out of pursuit of a vision, years of consistent efforts, passionate researchers, systematic investments and a disciplined approach to rigorous research work, resulting in several drug research programs and integrate them with the theory and practice of the science of pharmacy. I congratulate the leadership and team for the compilation, which should further intensify industry-institution collaboration.

I take this opportunity to extend my heartfelt appreciation to the JSS Mahavidyapeetha and the guidance and leadership of Dr.Dhanabably supported by the faculty, researchers, students and staff of JSSCPO. Furthermore, I congratulate them all, on this momentous occasion and look forward to encomiums come their way from all stakeholders.

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Dr. B. Suresh
Pro Chancellor
JSS Academy of Higher Education & Research, Mysuru



Dr. Surinder Singh
Vice Chancellor
JSS Academy of Higher Education & Research, Mysuru

Message

I am so delighted to know that the JSS College of Pharmacy, Ooty, one of the constituent colleges of JSS Academy of Higher Education & Research (JSSAHER), Mysuru promulgates its research portfolio as a brochure '**Transcending Pharmaceutical Research & Innovation**'.

As research is the key strategic element of JSSAHER, within a decade from the inception, it has emerged as one of the Research-Intensive University and is being rated/ranked reputedly and consistently on par with the higher education institutions in the country that have celebrated jubilees.

The contribution of JSS College of Pharmacy, Ooty for these accolades is colossal. As a stand-alone institution, it has a rich history and outcomes of research and innovation in the fields of drug discovery, formulations, pre-clinical, bioanalytical, biotechnology and clinical research that are evident from hundreds & thousands of research theses & dissertations, more than thousand scientific publications, good number of patents, etc.

Also, it is noteworthy that the research potentials of the college in all the facets of drug discovery and development have been recognized by various Government funding agencies towards establishing centres of excellence such as TIFAC CORE in Herbal Drugs. The products successfully commercialized by the industrial partners speak for the potentials of the college in consultancy research. The unambiguous policies of JSSAHER for research and consultancy add strength for such collaborations.

The research infrastructure and intellectual potentials of the college are immensely supported by the integrated/interdisciplinary research and innovation ecosystems in medical institutions, school of life-sciences, centres of excellence of JSSAHER.

I am sure that this brochure will broaden the leadership role of JSS College of Pharmacy, Ooty in attracting collaborations in the new and emerging areas of research and innovation in the field of pharmacy and other inter-disciplines. By all such collaborations with industrial partners, Government and other research institutions on cross-cutting research themes, the college and JSSAHER will impact the society and economy both regionally and nationally.

My best wishes to the leadership and the research team at JSS College of Pharmacy, Ooty to get the successful outcomes of this effort.


Dr. B. Suresh
Pro Chancellor

16.6.2021

May 04, 2021

MESSAGE

I am glad that JSS College Of Pharmacy, Ooty, a constituent college of JSS Academy of Higher Education and Research, is bringing out an exclusive brochure on the college's research strength in various departments including faculty research expertise, research focus, advanced research facilities, grants, publications, patents, consultancy etc for the benefit of students and researchers and pharma industries.

I am sure that this brochure will attract many Pharma companies to the college facilitating development of various pharmaceutical products and bringing them to the market, by establishing collaborative ventures at JSS College of Pharmacy, Ooty. I am confident that this brochure will serve as a unique reference guide for national / international universities, pharma companies and stakeholders and benefit all the students, researchers and related pharma companies.

I congratulate and appreciate the efforts of the JSS College of Pharmacy in bringing out this research brochure and convey my best wishes on this occasion.



Dr Surinder Singh
Vice Chancellor

MESSAGES

MESSAGES



Dr. B. Manjunatha
Registrar
JSS Academy of Higher Education & Research, Mysuru



Dr. S. Balasubramanian
Director - Research
JSS Academy of Higher Education & Research, Mysuru

Dr. B. Manjunatha
REGISTRAR

Date: 12th May, 2021

MESSAGE

I am very happy to note that JSS College of Pharmacy, Ooty is bringing out the Institutional Research Brochure.

JSS College of Pharmacy, Ooty has always been in the forefront and is the torch bearer of our Research activities.

This Institutional Research Brochure will showcase the research activities being conducted at this institution and will provide a platform for budding researchers to showcase their ideas.

Bringing out this Brochure during these difficult times shows the dedication of all the staff, research scholars and students concerned.

I congratulate the Principal, editorial board and all those involved in preparation of this document.

Dr. B. Manjunatha

Dr. S. Balasubramanian
Director- Research
[email:director_research@jssuni.edu.in](mailto:director_research@jssuni.edu.in)

MESSAGE

I am pleased to know that JSS College of Pharmacy, a constituent college of JSSAHER is publishing a Research Compendium which is a compilation of research and development activities conducted in the college. This compendium comprises detailed information of the publications, ongoing and completed research projects, the number of workshops and seminars conducted and attended by the students, research scholars, and the faculties. In continuing the dedication of the researchers and the research scholars, the college is aiming to set a model research institute of excellence in the field of pharmacy. The students of the College will get excellent practical training and enable them to compete in the field with other competitors.

The pharmacy field is now becoming more research-oriented which needs to facilitate the department with sophisticated instruments. The college has advanced and modern research facilities and attracting industrial projects. The compendium reflects our continuous strength and hard work showing the inclination of the students and the faculty towards the research in various fields of pharmacy. To enhance the research environment, our university has framed the research incentive schemes. The enthusiasm of our dedicated faculties has been to encourage our students to do high-impact research projects. I assure you that this encouragement and commitment of the faculties of the department will be continued in the time to come.

I would like to compliment all the researchers and the researcher scholars who have contributed their knowledge for novel research.

The Principal, Faculty, and Research scholars hope that their compendium will guide health professionals who seek to improve their skills in Health Professions Education & Research.

I congratulate the compilation team and the Principal for bringing upon this compendium as a ready reference of their dedication towards research and development.

Dr. S. Balasubramanian

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JSS Academy of Higher Education & Research, formerly known as JSS University, is a Deemed to be University located in Mysuru, Karnataka. It was established in 2008 under Section 3 of the UGC Act 1956 and is part of JSS Mahavidyapeetha, which runs a variety of educational institutions. The Deemed to be University has been focusing on teaching, research and health services since its inception.

Under the leadership and gracious Patronage and Blessings of His Holiness Jagadguru Sri Shivarathri Deshikendra Mahaswamiji, the JSS Academy of Higher Education & Research, Pro Chancellor, Dr. B. Suresh, a noted multifaceted leader of repute and Vice Chancellor, Dr. Surinder Singh, an acclaimed Administrator, the Deemed to be University has made great progress in grooming graduates, postgraduates and Ph.D. researchers by providing effective value based education across institutions by focusing on overall development of an individual through state-of-art facilities to make the learner a useful citizen to the society. JSS Academy of Higher Education & Research being a Health Science based University, has motivated students and staff to be actively involved in research. The research output is translated much beyond patents and publications with a robust Innovation strategy & policy to propel benefits to society and support achievements of global sustainable development goals.

ACCREDITATIONS

- The Deemed University has been accredited with "A+" Grade with CGPA of 3.48 by National Assessment and Accreditation Council (NAAC) in the second cycle in 2018.
- The Pharm D. programme of JSS Academy of Higher Education & Research has been granted with International Certification by Accreditation Council for Pharmacy Education (ACPE), USA, and is the first among the Universities in the Asia Pacific region to have this privilege.

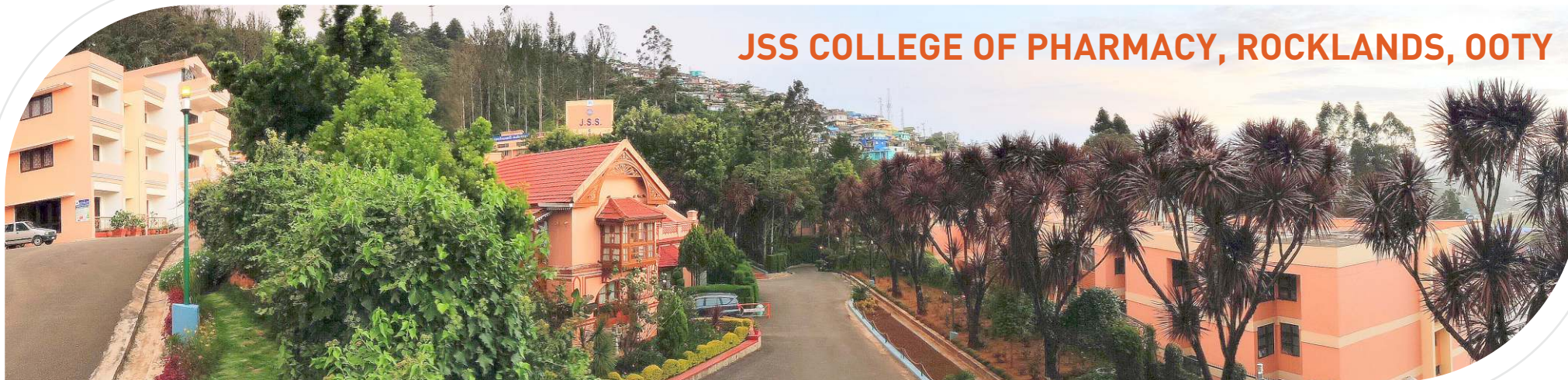


RANKINGS

- **National Institutional Ranking Framework (NIRF)**, Ministry of Education, Govt. of India has ranked JSS Academy of Higher Education & Research (JSS AHER) **34th rank** in India (2021).
- **The NIRF, Ministry of Education, Govt. of India has also ranked Constituent Colleges of JSS AHER, Mysuru (2021) :**
 - ❖ JSS Medical College ranked 24th among the medical institutions.
 - ❖ JSS Dental College and Hospital ranked 12th among the dental institutions.
 - ❖ JSS College of Pharmacy, Ooty ranked 7th and JSS College of Pharmacy, Mysuru ranked 9th among the pharmacy institutions.
- **ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS (ARIIA) 2020 MHRD**, has placed the institution in the Rank band A (Ranked Top 6 to 25 among the private educational institutions in India)
- **The Quacquarelli Symonds (QS) Asia Ranking** has ranked JSS AHER in the band of 291-300 for excellence in education and research, at a rank of 98th in Asia. JSS AHER is ranked 37th (overall) in India and secures 1st in Papers per faculty, 14th in citations per paper and 19th in faculty students ratio in India.
- **The QS World University Rankings** by subject in the year 2021, in the field of Pharmacy and Pharmacology, has ranked our institution at 201-250 rank band among 1453 institutions across the world and in top 5 in India under the subject.
- **The Times Higher Education Innovation and Impact Ranking 2021** has positioned JSS AHER in 2nd rank in India and in the 52nd rank globally in the UN Sustainable Development Goal (SDG) 3: Good Health and Wellbeing.
- **The Times Higher Education Global University Rankings 2022** has ranked JSS AHER in the band of 351-400 among 1600 Universities across 99 Countries & Territories. JSS AHER stands 2nd in the top three Institutions in India among the 72 universities that participated in the Ranking from India.

Since its inception in 2008, the institution has strived hard to emerge as one of the pioneering research institutes in the health care sector. The research outputs have supported high impact publication in premier scientific journals and have contributed new knowledge to the understanding of newer drugs, therapy and treatment through innovations and patents. There is a wealth of knowledge that is being generated every single day in the field of molecular biology through the excellence of Molecular Biology and Natural Product Research to address important societal problems. JSS AHER combines leading medical research and compassionate patient care to face the world's most pressing medical challenges.

JSS COLLEGE OF PHARMACY, ROCKLANDS, OOTY



GENESIS

Established in 1980, JSS College of Pharmacy, Ooty is a constituent college of JSS Academy of Higher Education & Research (JSS AHER), Mysuru since 2008, and positioned today as one of the premier postgraduate and research institution imparting D.Pharm., B.Pharm., M.Pharm., (10 Specializations) Pharm.D., PhD. Programs and Online Diploma & Certificate Courses. The 'Add-On' Diploma/Certificate courses offered to the students/scholars are of value addition and nurturing their knowledge in inter-disciplinary subjects. As strong believers in 'Team Play', our focus is on collaboration instead of competition that resulted in National/International MoUs to foster teaching-learning, research through faculty/student exchange, consultancy, training programs.

OUR PILLARS



**Distinguished Faculty
Commitment for Excellence
in Teaching / Research**

The salient achievements and recognitions of the college include but not limited to ; (i) Being Pioneers in (Pharmacy Practice) Education / Training, and with several Post-Graduate specializations being first of it's kind in the country, (ii) The TIFAC-CORE in Herbal Drugs approved by DST (Govt. of India), (iii) Institutional Ethical Committee (IEC) approved by DCGI, (iv) Institutional Animal Ethical Committee approved by CPCSEA; (v) Drug Testing Laboratory approved by Govt. of Tamil Nadu and (vi) Faculty Training Centre, Industry Institution Interaction Cell, QIP Nodal Centre and Entrepreneurship Cell approved by AICTE. Centre for Advanced Drug Research and Testing (CADRAT) of the college is recognized for its expertise in industrial/academic consultancy that provides opportunity for problem based learning.



**Cutting Edge Research &
Diverse Thrust Areas**

We believe that quality is never an accident. It is always the result of high intention, sincere effort, intelligent direction and skilful execution. As a constituent college of JSS AHER, Mysuru the college is accredited 'A+' Grade by NAAC, the B.Pharm Program is accredited by NBA, New Delhi and the Pharm.D. Program is awarded with International Certification by ACPE, USA for the first time in the Asia Pacific Region. The Drug Testing Laboratory is accredited by NABL. Both the college and CADRAT are certified with ISO 9001:2015 for the quality management systems.



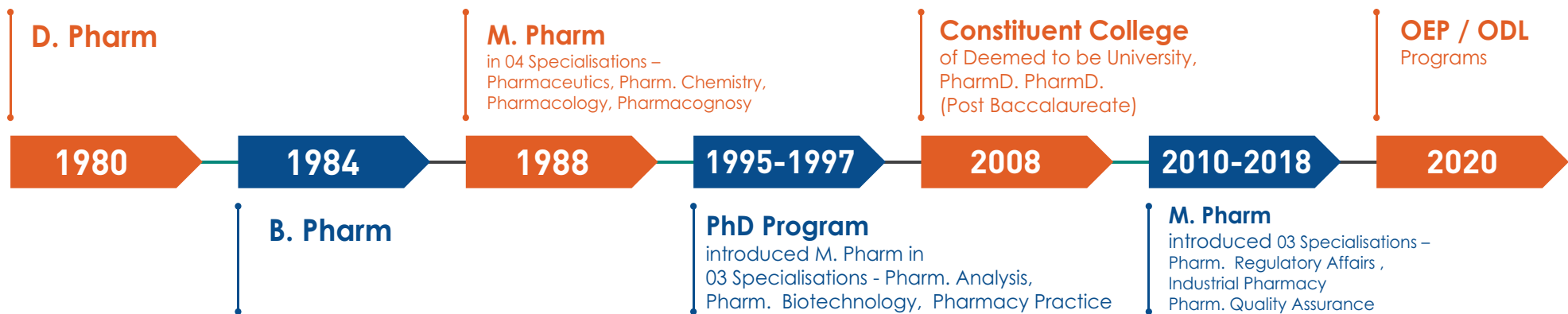
**Meritorious Students &
Research Scholars**



**State-of-the-Art Research
Facilities**

Our Journey So Far

JSSCP, Ooty is one amongst the many successful initiatives of JSS Mahavidyapeetha, which is known for its pursuit of academic excellence. The college has achieved laurels worthy of its founders and it is continuously striving for higher ground. The institution has been successful in maintaining a high level of research activity recognized at National and International levels. It has been conducting sponsored research projects for various National / International agencies, Statutory bodies, Universities and Research organizations.



The Architects



Dr. S. SRINIVASAN
1980 - 1981



Dr. M.K. OM PRAKASH
1981 - 1982



Dr. B. SURESH
1982 - 2008



Dr. K. ELANGO
2008 - 2013



Dr. S.P. DHANABAL
2013 - TILL DATE

VISION

To be a leader in pharmaceutical sciences & pharmacy practice education, training, research and continuous professional development for pharmacists and Pharmaceutical Scientists providing competent patient care and nurturing drug discovery and development.

MISSION

- ❖ To impart knowledge, develop skills and competencies in students in pharmaceutical sciences and pharmacy practice.
- ❖ To develop and advance the knowledge, attitude and skills of pharmacists and faculty members who can provide comprehensive pharmaceutical care to patients, improve patient outcomes, and meet societal needs for safe and effective drug therapy.
- ❖ To develop, promote and nurture research activities in pharmaceutical sciences and pharmacy practice and translating research into healthcare.

Core Values

- ❖ Leadership
- ❖ Excellence
- ❖ Integrity
- ❖ Respect
- ❖ Professionalism
- ❖ Innovation

Quality Policy

JSS College of Pharmacy, Ooty meet its MISSION, VISION and CORE VALUES by

- ❖ Completing the Course Curriculum at Scheduled Time
- ❖ Adopting Latest Technologies for Research
- ❖ Improving the Systems & Process

College has a well-defined strategic plan. Strategic planning allows the college to make fundamental decisions or choices by taking mission and vision into account, and to view what college hopes to accomplish and how it will do so. A strategic plan is built on a thorough analysis of the college's mission and vision, existing structure, governance, staff, collaborations, and resources (financial, human, technical, and material).

JSS College of Pharmacy, Ooty will position itself as the SMART College of Pharmacy in the country by 2025

By developing and advancing



Produce SMART Pharmacists who excel through



RANKING, AWARDS AND RECOGNITIONS

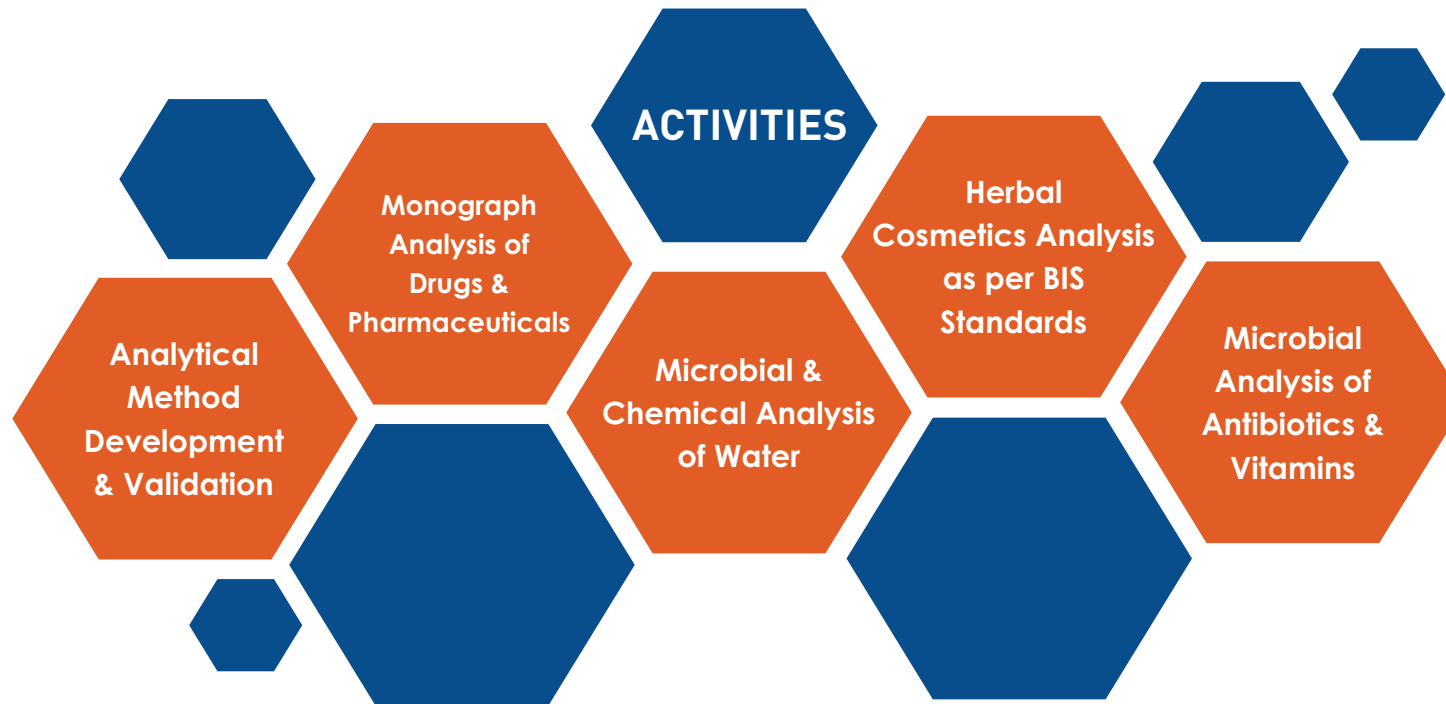


- ❖ MOE - NIRF Ranking 2021, JSS College of Pharmacy, Ooty positioned 7th Rank among the 351 Pharmacy Institutions participated in India Ranking 2021
- ❖ Ranked 201-250 (World), 52nd (Asia), 6th (India) QS World University Rankings in Pharmacy & Pharmacology
- ❖ Ranked 3rd in Career 360 Magazine among Private Pharmacy colleges in the country
- ❖ NABL re-accreditation (ISO/IEC 17025:2005) for Drug Testing Laboratory, for Monograph Analysis of Drugs and Pharmaceuticals
- ❖ ISO Certification (9001:2015) for CADRAT for testing and analysis of drugs
- ❖ Ministry of Human Resource Development (MHRD), Govt. of India recognized JSS College of Pharmacy, Ooty as Institution Innovation Cell (1.0 & 2.0)
- ❖ CPCSEA Approved Animal House for Academic & Consultancy purposes. Approved for breeding for in-house use of small animals (2019-2024)

<p>2021</p>	<p>A+</p>	<p>34th (University Category)</p>	<p>291-300 31st in INDIA</p>	<p>351-400 2nd in INDIA</p>	<p>2020 Band A Rank Band 6 to 25</p>
<p>JSS Medical College - 24th ★ JSS Dental College & Hospital - 12th ★ JSS College of Pharmacy, Mysuru - 9th ★ JSS College of Pharmacy, Ooty - 7th</p>					

DRUG TESTING LABORATORY (DTL)

The Drug Testing Laboratory (DTL) functioning under the aegis of the Department of Pharmaceutical Analysis is certified by ISO 9001: 2015, accredited by NABL (National Accreditation Board for Laboratories; (ISO 17025: 2005) and approved by Tamil Nadu State Drug Control Authorities for the testing of Pharmaceuticals. The laboratory caters the needs of the community in terms of testing and quality control of Drugs and Pharmaceuticals as per pharmacopoeia standards. DTL is committed to Good Laboratory Practices and provides analytical results in compliance with Pharmacopoeias for the benefit of the Government agencies, Pharma Industries & Institutions and the society.



Licenses/Accreditations/ Certifications

- ❖ Director of Drugs Control Department, Tamil Nadu for the testing of Pharmaceuticals (Since 1994).
- ❖ National Accreditation Board for Testing and Calibration Laboratories. (NABL - ISO/IEC - 17025: 2005) - 2018. Scope : Chemical Testing (Drugs and Pharmaceuticals)
- ❖ ISO 9001: 2015 & GLP Certified.

CENTRE FOR ADVANCED DRUG RESEARCH AND TESTING (CADRAT)

The Centre for Advanced Drug Research and Testing (CADRAT), under the aegis of JSS Consultancy Trust, is functioning in the college since 1994 to make effective use of the expertise and facilities available with the institution to the Government, Public and Private bodies in pursuit of advancement of Pharmaceutical Sciences and Research.

CADRAT is certified by ISO 9001-2015 for Drug Product Development by TUV-SUD.

CADRAT takes up the contract research services in the following areas for the benefit of the industrialists, academicians and students.

- ❖ Biological Testing
- ❖ Pharmaceutical and Nutraceutical Product Developments
- ❖ Preclinical Testing
- ❖ Analytical Testing for Pharmaceuticals, Food and Herbals (Since 1994).

CONSULTANCY UNDERTAKEN : ₹. 5.35 CRORE WORTH PROJECTS



MAJOR CLIENTS

M/S. Tablets (India) Ltd.,
Chennai

M/S. Apex Laboratories Pvt. Ltd.,
Chennai

M/S. Allianz Biosciences Pvt. Ltd.,
Puducherry

M/S. Arya Vaidya Shala,
Kottakkal, Kerala

M/S. Avicence Research Pvt. Ltd.,
Chennai

M/S. Pukka Herbs,
United Kingdom

M/S. E I D Parry Nutraceuticals,
Chennai

M/S. Nextgen Incubator,
Madurai

M/S. Scitech Centre,
Mumbai

M/S. Nuray Chemicals Pvt. Ltd.,
Chennai

M/S. Gulbrandsen
Technologies (India) Pvt. Ltd.
Gujarat

M/S. Etica ClinPharma Pvt. Ltd.
Chhattisgarh

M/S. Sandhu Products Inc.
USA

M/S. Novitium Pharma,
USA

M/S. Sai MirraInnopharm Pvt. Ltd.,
Chennai

M/S. Zeus Hygia
Life Sciences, Pvt. Ltd.
Hyderabad

M/S. NMC Healthcare,
UAE

M/S. Scitus Pharma Services, Pvt. Ltd.
Chennai

M/S. AVN Ayurveda Formulations,
Madurai

M/S. Iyarka Extracts and Products,
The Nilgiris

Proof of Concept | Formulation Development | Formulation Evaluation | In vitro Characterisations | Toxicological Evaluations
Analytical Services | Docking and Synthesis Studies | Herbal Product Development | Preclinical Studies | Clinical Services



TIFAC - CENTRE OF RELEVANCE AND EXCELLENCE IN HERBAL DRUGS (DEPT. OF SCIENCE & TECHNOLOGY, GOVT. OF INDIA)

Technology Information, Forecasting and Assessment Council (TIFAC) has been carrying out Mission and Programs under the Technology Vision 2020 projects. One of these missions, REACH (Relevance and Excellence in achieving new heights in educational institutions), aims at upgrading select science and engineering colleges, in the country as "Centres of Relevance and Excellence (CORE)" to broaden the level of education and meet the scientific technological manpower requirements of India in advanced areas promising to show-up on the horizon in the years to come.

The Apex Committee appointed by TIFAC selected JSS College of Pharmacy, Ooty, to locate a CORE in Herbal Drugs under the TIFAC MISSION REACH Projects. The TIFAC CORE (HD) is functioning since January 2001. As per the mandate entrusted to JSS College of Pharmacy, Ooty the major goal of the TIFAC CORE in HD is to undertake research programmes for the Indian industries engaged in manufacturing Herbal Drugs/Traditional Medicinal Products in addition to meet the specialized demands of human resource requirements of these industries.

Specific Objectives

- To function as a skill-development centre for all stake holders of natural products
- To serve as a training/knowledge centre for empowering tribal youth to sustain indigenous tribal/folk medicine
- To serve as a consultant for natural product industry and regulatory needs at various capacities
- To design and offer new academic (industry relevant) programme
- To become an international leader in natural product research

Key Outcomes

- HAPENZ, a polyherbal syrup formulation (natural appetizer) was developed and the technology transferred to our industrial partner and commercialised by M/S. Tablets (India) Ltd., Chennai.
- NSF-3, a polyherbal tablet formulation for sleep was developed and the technology was transferred to our industrial partner and commercialised by M/S. Tablets (India) Ltd., Chennai.
- The Centre is credited with 2 granted patents out of 5 filed.



Cutting Edge Research Facilities & Expertise

- Expert researchers in basic, translational and clinical research
- Medicinal plant garden, herbarium and plant extract library/inventory
- Well-equipped pharmacognostical and phytochemical facilities
- Approved analytical and testing laboratories
- Well-equipped tissue culture and animal pharmacology/toxicology labs
- Formulation and new product development
- Regulatory and document preparation assistance to industries

Awards And Recognition

Re:Think INDIA, a Nationalist think tank has conferred upon JSS College of Pharmacy, Ootacamund, the Bharat Ratna Atal Bihari Vajpayee Award for Innovation 2017, on May 11, 2017, the National Technology Day, at India International Centre, New Delhi, for the patented Herbal Drugs, namely Hapenz& NSF-3 developed by TIFAC Centre of Relevance and Excellence in Herbal Drugs, JSS College of Pharmacy, Ootacamund and marketed by M/s Tablets (India) Ltd., Chennai.

Product Development Cycle



Centre of Excellence in Nanoscience & Technology was established in Sep, 2019 with the goal of enhancing and advancing research in Nanoscience and Nanotechnology, to promote and develop interdisciplinary research activities. In addition, the centre aims to conduct training & awareness programs, viz. Workshops, National and International conferences on recent trends and developments in nanoscience and nanotechnology. Also the centre shall fetch research and development grants from various government agencies and offer consultancy services to industries and research organizations in India and abroad.

Activites

- Support R & D that extends the frontiers of nanotechnology and strengthens the intersections of scientific disciplines.
- Identify and support nanoscale science and technology research enabled by breakthroughs in science, driven by national priorities, and informed by industry stakeholders.
- Advance a dynamic portfolio of Nanotechnology Signature Initiatives (NSIs) that are supported by multiple government agencies and address significant national priorities.
- Utilize Nanotechnology-Inspired challenge grants to engage the broader community to solve problems of national and global importance
- Increase focus on nanotechnology-based commercialization and related support for Institute – Industry partnerships.
- Support the creation of a comprehensive knowledge base for evaluation of the potential risks and benefits of nanotechnology to the environment and to human health and safety.
- Establish and sustain programs (workshops/seminars/conferences) that assist in developing and maintaining a skilled nanotechnology workforce
- Provide, facilitate the sharing of, and sustain the physical R & D infrastructure, notably user facilities as a cooperative research centre to other institutions.
- Incorporate sustainability in the responsible development of nanotechnology.
- Engage in Consultancy activities integral to the development and commercialization of nanotechnology-enabled products and processes
- Expand outreach and informal education programs in order to inform the public about the opportunities and impacts of nanotechnology.
- To initiate Nanotechnology based certificate / PG diploma courses



Expert Opinion on Drug Delivery >

Volume 18, 2021 - Issue 4

Submit an article

Journal homepage

Opening eyes to therapeutic perspectives of bioactive polyphenols and their nanoformulations against diabetic neuropathy and related complications

Rubiya Khursheed, Sachin Kumar Singh, Sheetu Wadhwa, Monica Gulati, Bhupinder Kapoor, Ankit Awasthi, Arya Kr, Rajan Kumar Faheem Hyder Pottoo, Vijay Kumar, Harish Dureja, Krishnan Anand, Dinesh Kumar Chellappan, Kamal Dua & K. Gowthamarajan

...show less

Pages 427-448 | Received 03 Aug 2020, Accepted 02 Nov 2020, Published online: 27 Dec 2020

Download citation

<https://doi.org/10.1080/17425247.2021.1846517>

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ALUMNUS



Prakash Janardan

Director – Corporate Affairs,
NMC Healthcare, Abu Dhabi, UAE

I am delighted to learn that JSS College of Pharmacy is releasing an exclusive brochure to showcase the diverse pharmaceutical research initiatives nurtured and promoted by the institution.

The science and evolution of pharmaceuticals is forever in a dynamic state, marked by the introduction of new therapies through rapid advancements in drug research and technology. At the basic level, the seeds for such discovery processes are sowed at the level of the pharmacy institution and the JSS College of Pharmacy continues to be the regional torch bearer by leading in research programs across the various disciplines of pharmacy specialties.

By combining systematic investments and a disciplined approach to rigorous research work, JSS College of Pharmacy, Ooty, has been able to embed several drug research programs and integrate them with the theory and practice of the science of pharmacy.

I take this opportunity to extend my heartfelt appreciation to the JSS Mahavidyapeetha, the able guidance and leadership of Dr. Dhanabal, an adroit faculty, the students community and congratulate one and all on this momentous occasion.



Sreenivas Bhat, RPh.

Director – Scientific Director, Product Development,
Global Product Development & Supply, Bristol Myers Squibb



My heartfelt congratulations to you, your colleagues and JSS Institution, Ooty for launching the Research Brochure to showcase the diverse Pharmaceutical Research initiatives & achievements promoted by the JSS Mahavidyapetha.

The evolution of pharmaceutical research is forever in a dynamic state, marked by the introduction of new therapies through rapid achievements in drug research & development. I commend JSS Institution for taking the step in the right direction to demonstrate JSS Institution's commitment towards Global Health by leading research programs across various pharmaceutical disciplines.

I firmly believe that JSSCPO can captivate external partners and firms for the overall success in this research initiative.

I once again congratulate the entire team and look forward to hearing great accomplishments from the institution. I wish you all the best.



ALUMNUS

TESTIMONIAL

TESTIMONIAL



Centre For Formulation & Development

STAKEHOLDER



Bharat Jhaver
President,
M / s. Tablets (India) Ltd. Chennai.

Vishagan Suler Vanangamudi
Director – Apex Laboratories Private Limited
SIDCO Garment Complex II Floor, Guindy, Chennai - 600032.



STAKEHOLDER

TESTIMONIAL

TESTIMONIAL

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web : www.tabletsindia.com



TABLETS and its allied products
25 August 2021

It gives us immense pleasure to note that JSSCP, Ooty has been the center of excellence in pharmacy education and been successful in establishing vast research activities recognized by both national and International authorities. The university is becoming our preferred partner for conducting research projects for various new products & our research work extends to also meet the national and International statutory requirements too.

At this juncture, I would like to recall our association with JSSCP, Ooty wherein, a unique, first time in India, a poly-herbal product named HAPENZ®, had been developed in 2004 via a tripartite agreement between Tablets (India) Limited, JSSCP & TIFAC-CORE. HAPENZ® is a convenient, effective, clinically documented, poly-herbal liquid product to stimulate appetite & help in growth and development.

HAPENZ® Project is a very special product as it was an initiative from His Excellency former President of India, Dr.A. P. J. Abdul Kalam.

Subsequent to the launch of HAPENZ®, Govt. of India has granted patent for this product and it has won accolades from the entire medical fraternity across the country & to countries where the same is being exported. We are overwhelmed recently when His Excellency President of India, Sri. Ram Nath Kovind has also seen the joint research work done by Tablets India & JSSCP on HAPENZ® during his recent visit to the university in Aug 2021. Our company has since expanded our scope of research work at JSSCP & we continue to carry out several research projects at the university, many of which are ongoing till date.

I would like to take this opportunity to appreciate and acknowledge the work & effort that the university management in creating robust infrastructure which facilitates both research with companies. It also creates an opportunity for inclusion of university students in the developmental work which brings about a holistic learning and experience for them too.

I extend my best wishes to the strong management & entire faculty of JSSCP, Ooty for their continued services in carrying out research and mentoring it's students to become successful & socially responsible professionals on par with international standards.

Bharat Jhaver
President

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I would like to thank the entire research team of JSS College of Pharmacy, Ooty for their tremendous support in various studies conducted as a part of our product development and research activities. We have been working with them for long time and JSS College of Pharmacy, Ooty performed many in-vitro and in-vivo studies with the highest scientific quality and data integrity.

It is always great to collaborate and work with the expertise and dedicated research team of JSS College of Pharmacy, Ooty.

I wish all success to the research team of JSS College of Pharmacy, Ooty!

Best Regards,

Vishagan Suler Vanangamudi
Director

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DEPARTMENT OF PHARMACEUTICS (DST-FIST SPONSORED) CENTRE FOR FORMULATION & DEVELOPMENT (CFD)

Preamble

The Department of Pharmaceutics was established in 1988 to strengthen the academic, research and hands-on training in the area of Pharmaceutics. This centre encompasses basic and applied investigations in Biopharmaceutical based formulations, Novel nanotechnological approaches for the management of life threatening chronic diseases including cancer, neurological diseases, malaria, diabetes, viz. developing cost-effective newer delivery systems for better medication compliance and performance enhancement in conventional drug delivery systems. This centre is provided with state of art facilities for carrying out various pharmaceutical operations.

Research Focus / Thrust Areas

Nanotechnology - Based
Formulations

Targeted Formulation
Development

Personalized & Customized
Drug Delivery Systems

Conventional
Drug Delivery Systems
Development & Troubleshooting

Chronic Wound Healing
& Drug Delivery Systems

Regulatory
Research

INVESTIGATOR'S PROFILE



Customized Drug Delivery System

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Targeted Drug Delivery System

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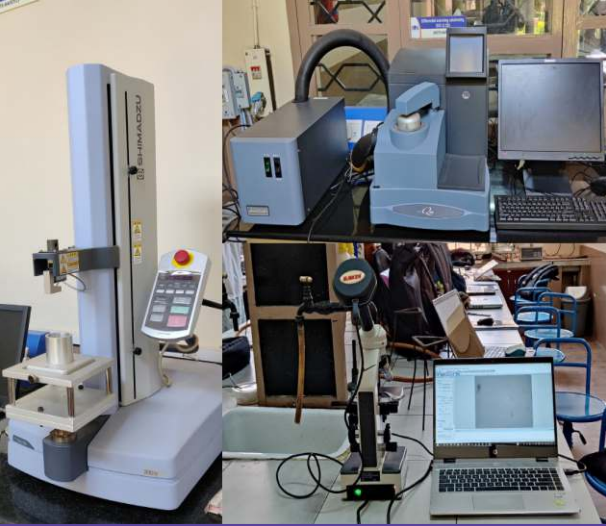


Personalised Medicine

Mr. Arun R.

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Preformulation & Material Characterisation

- Differential Scanning Calorimeter (TGA Instruments)
- Texture Analyser (Shimadzu)
- Microscope with in-Built Digital Camera (ALMICRO)



Pilot Plant for Solid Orals

- UFLC with PDA Detector (Shimadzu)
- Control Incubation Orbiter Shaker 230 (IKA Instruments)
- Tablet Compression Machine 10 station (Cadmach)
- Tablet Compression Machine 16 station (Cadmach)
- Extruder 65 with Variator (R.R. Enterprises)
- Lyophilizer (Sub-zero Lab Instruments)
- Spray Dryer with Macro Injector (Techno Search)
- Stability Chamber (OHMKAR Equipments)
- Spheronizer (RR Enterprises)
- Blister Packing System (Rota Pack)
- Powder Mixer (Cadmach)



Nanoformulation & Characterization

- High Speed Homogenizer (Ingenicurburo)
- Spray Dryer with Ultrasonic Nano Injector (Techno Search)
- Lite Sizer for Particle Size Analyzer (Anton Paar)



COLLABORATIONS WITH INDUSTRIES INTERNATIONAL & NATIONAL UNIVERSITIES



MAJOR CLIENTS

Technology Transfer Available

- Patent No: 332264, Published: 21.08.2015; Awarded: 20.03.2013. Dr. Karri V V S Narayana Reddy, Dr. R.SureshKumar, Dr. Rajkumar Malayandi, Dr. Gowthamarajan K. Method of processing Nanoemulsion gel comprising terbinafine or its salt form for Mycotic Infections.
- Patent No: 353946, Published: 25.10.2012; Awarded: 22.04.2016. Dr. Deepa Patahk, Dr. K.Gowthamarajan, Dr. Ankur Gupta, Dr. Bhagyasree Kamble, and Dr. Elango Kannan. Naturally derived water-soluble fraction of Fenugreek mucilage and its uses thereof in the preparation of nanoparticles.
- Patent Application No: 201741025232, Published: 17.07.2017. Dr. K.Gowthamarajan, and Kousalya S. Encapsulated drug admixture composition for brain targeting via intranasal route.
- Patent Application No: 202041008119, Published: 30.10.2020. Dr. Gowthamarajan K, Dr. Jubie S, and Dr. Anindita De. Mono esterification process for the synthesis of carboxymethyl Chitosan hybrid with WZB117.
- Patent Application No: 202041027368, Published: 30.10.2020. Dr. Karri V V S Narayana Reddy, Mr. Bharat Kumar Reddy Sanapalli, Ms. Rishita Tyagi, Dr. Gowthamarajan K, Dr. Praveen Thaggikuppe Krishnamurthy, and Dr. Ashish Devidas Wadhvani. Tissue engineered acellular scaffold for the treatment of diabetic wounds.
- Patent Application No: 202041052620, Published: 11.12.2020. Dr. K.Gowthamarajan, Mr. Arun R, and Aravindhanathan Venkatesan. Bidirectional release of customi-zable fused multifractional oral release system.

Total No. of PhD

Awarded : 26

Ongoing : 28

PhD Fellowships Awarded by Govt. Agencies

- ▶ Indian Council of Medical Research (ICMR)
- ▶ DST Women Scientist Scheme - A
- ▶ Council of Scientific & Industrial Research (CSIR)
- ▶ UGC Maulana Azad National Fellowship
- ▶ DST Innovation in Science Pursuit for Inspired Research
- ▶ DST Senior Research Fellow (SRF)
- ▶ AICTE National Doctoral Fellowship (NDF)
- ▶ AICTE Quality Improvement Programme (QIP)

RESEARCH ACHIEVEMENTS

External Funded Projects (Completed)

PI : Dr. M. K. Samantha	Agency : AICTE - Modernisation and Removal of Obsolescence
Title : Modernization of manufacturing and evaluation operation of drugs using the state of art technology	
Grant : 7.0 Lakhs	Period : 2000 - 2003
PI : Dr. M. K. Samantha	Agency : AICTE- Research & Development
Title : Study on polymeric ophthalmic inserts of natural forskolin and forskolin analogue in the treatment of glaucoma	
Grant : 3.65 Lakhs	Period : 2004 - 2007
PI : Dr. M. K. Samantha	Agency : AICTE - National Facilities in Engg & Tech. with Industrial Collaboration
Title : Establishment of pharmacokinetic laboratory operations for herbal drugs using the state of art technology conforming GLP regulations	
Grant : 58.0 Lakhs	Period : 2007 - 2010
PI : Dr. K. Gowthamarajan	Agency : DST-Science & Engineering Research Board
Title : Effective management of multi-factorial Alzheimer's disease: An attempt of nano-structured lipid carrier containing donepezil and curcumin through olfactory to brain	
Grant : 11.80 Lakhs	Period : 2015 - 2016
PI : Dr. N. Jawahar	Agency : AICTE - Career Award for Young Teachers
Title : Improving the delivery of poorly soluble drugs through nanotechnology	
Grant : 1.05 Lakhs	Period : 2014 - 2018
PI : Dr. K. Gowthamarajan	Agency : AICTE - Research Promotion Scheme
Title : Engineered affibody conjugated oxaliplatin nanoparticles for the management of colorectal cancer	
Grant : 5.0 Lakhs	Period : 2017 - 2020

External Funded Projects (Ongoing)

PI : Dr. K. Gowthamarajan	Agency : DST- Fund for Improvement of S&T infrastructure in Universities & Higher Educational institutions
Title : Patient centric center customized drug delivery systems.	
Grant : 58.0 Lakhs	Period: 2019 - 2023
PI : Dr. K. Gowthamarajan	Agency : DBT-North Eastern Twinning Research
Title : TRAIL conjugated oxaliplatin hybrid drug delivery for targeting DR4 and DR5 receptor for management of colonal cancer	
Grant : 33.0 Lakhs	Period : 2021 - 2024

Select Publications (Top 25 ; Last 10 Years)

1. Kumari Y, Kaur G, Kumar R, Singh SK, Gulati M, Khursheed R, Clarisse A, Gowthamarajan K, Karri VVS Narayana Reddy, Mahalingam R, Ghosh D, Awasthi A, Kumar R, Yadav AK, Kapoor B, Singh PK, Dua K, Porwal O. Gold nanoparticles: New routes across old boundaries. *Advances in Colloid and Interface Science*, 2019; 274(10); -14 [IF: 12.63]
2. Simhadri PK, Malwade R, Vanka R, Nakka VP, Gowthamarajan K, Babu PP. Dysregulation of LIMK-1/cofilin-1 pathway: A possible basis for alteration of neuronal morphology in experimental cerebral malaria, *Annals of Neurology*, 2017; 82(3); 429-443 [IF: 9.04]
3. Talluri S, Pindiprolu S, Janarthanam R, Gowthamarajan K. Development and efficacy evaluation of smart nanocarriers for targeting breast cancers, *European Journal of Cancer*, 2016; 57(4); 112-119 [IF: 9.162]
4. Gowthamarajan K, Affibody conjugated cisplatin nano-particles for the management of breast cancer, *European Journal of Cancer*, 2018; 92(3); 109-112 [IF: 9.162]
5. Gowthamarajan K, Kumar GKP, Gaikwad NB, Suresh B. Preliminary study of Anacardium occidentale gum as binder in formulation of paracetamol tablets, *Carbohydrate Polymers*, 2011; 83(2); 506-511 [IF: 7.18]
6. Gowthamarajan K, Jawahar N, Wake P, Jain K, Sood S. Development of buccal tablets for curcumin using Anacardium occidentale gum. *Carbohydrate Polymers*. 2012; 88(4); 1177-1183 [IF: 7.18]
7. Wilson B, Samanta MK, Santhi K, Kumar KPS, Ramasamy M, Suresh B. Chitosan nanoparticles as a new delivery system for the anti-Alzheimer drug tacrine. *Nanomedicine: Nanotechnology, Biology, and Medicine*. 2010; 6(1); 144-152 [IF: 5.18]
8. Jawahar N, Hingarh PK, Arun R, Selvaraj J, Anbarasan A. Enhanced oral bioavailability of an antipsychotic drug through nanostructured lipid carriers. *International Journal of Biological Macromolecules*. 2018; 110(01); 269-279 [IF: 5.16]
9. Singh MK, Pindiprolu SKSS, Sanapalli BKR, Yele V, Ganesh GNK. HER2 targeted biological macromolecule modified liposomes for improved efficacy of capecitabine in breast cancer. *International Journal of Biological Macromolecules*. 2020; 150(6); 631-636 [IF: 5.16]
10. Kumari Y, Singh SK, Kumar R, Kumar B, Kaur G, Gulati M, Tewari D, Gowthamarajan K, Karri VVS Narayana Reddy, Ayinkamiye C, Khursheed R, Awasthi A, Pandey NK, Mohanta S, Gupta S, Corrie L, Patni P, Kumar R, Kumar R. Modified apple polysaccharide capped gold nanoparticles for oral delivery of insulin. *International Journal of Biological Macromolecules*. 2020; 149(1); 976-988 [IF: 5.16]
11. Yasam V R, Jakki S L, Senthil V, Eswaramoorthy M, Shanmuganathan S, Arjunan K, Nanjan M. A pharmacological overview of lamotrigine for the treatment of epilepsy. *Expert Review of Clinical Pharmacology*. 2016; 9(12); 1533-1546 [IF: 3.48]
12. Varghese NM, Senthil V, Saxena SK. Nanocarriers for brain specific delivery of anti-retroviral drugs: challenges and achievements. *Journal of Drug Targeting*. 2018; 26(3); 195-207 [IF: 3.38]
13. Chenmal K, Suresh kumar R. Incorporation of Natural assumption to deal with cancer. *Environmental Science Pollution Research International*. 2021; 28(5); 4902-4917 [IF: 3.306]

14. Mantosh KS, Sai Kiran S S Pindiprolu, Bharat Kumar Reddy S, Vidyasrilekha Y, Ganesh GNK. Tumor homing peptide modified liposomes of capecitabine for improved apoptotic activity and HER2 targeted therapy in breast cancer: in vitro studies. *RSC Advances*. 2019;9(1);24987- 24997 [IF-3.12]
15. Nethravathi P, Karthik Y, Narendran ST, Suresh Kumar R, Gowthamarajan K, Basuvan B, Ram Kumar P. A simple sensitive UFLC-MS/MS method for the simultaneous quantification of artesunate, dihydroartemisinin and quercetin in rat plasma and its application to pharmacokinetic studies. *RSC Advances*. 2019; 9(3); 41794–41802 [IF-3.070]
16. Venkatesh D N, Baskaran M, Karri VVS Narayana Reddy, Mannemala S S, Radhakrishna K, Goti S. Fabrication and in vivo evaluation of Nelfinavir loaded PLGA nanoparticles for enhancing oral bioavailability and therapeutic effect. *Saudi Pharmaceutical Journal*. 2015;23(6);667-674 [IF:2.88]
17. Jawahar N, Bharat Kumar Reddy S, Mehjabeen B, Sachin Kumar S, Monica G, Karri VVS Narayana Reddy. Nanostructured Lipid Carriers of Pioglitazone Loaded Collagen/Chitosan Composite Scaffold for Diabetic Wound Healing. *Advances in Wound Care*. 2019;12(2);1-15 [IF-4.73]
18. Ravikumar R, Ganesh M, Senthil V, Ramesh YV, Jakki S L, Choi E Y. Tetrahydro curcumin loaded PCL-PEG electrospun transdermal nanofiber patch: Preparation, characterization, and in vitro diffusion evaluations. *Journal of Drug Delivery Science and Technology*. 2018;44;342-348 [IF-3.92]
19. Asha Spandana K M, Bhaskaran M, Karri VVS Narayana Reddy, Jawahar N. A comprehensive review of nano drug delivery system in the treatment of CNS disorders. *Journal of Drug Delivery Science and Technology*. 2020;50(2);22-31 [IF-3.92]
20. Pamu D, Tallapaneni V, Karri VVS Narayana Reddy, Sachin Kumar S. Biomedical applications of electrospun nanofibers in the management of diabetic wounds. *Drug Delivery and Translational Research*. 2021;16(3); 1-9 [IF-2.66]
21. Nethravathi P, Suresh Kumar R, Gowthamarajan K, Arun R. Nano facilitated drug delivery strategies in the treatment of plasmodium infection. *Acta Tropica*. 2020; 195(2);103–114 [IF-2.55]
22. Puttappa N, Suresh Kumar R, Yamjala K. Artesunate-quercetin/luteolin dual drug nanofacilitated synergistic treatment for malaria: A plausible approach to overcome artemisinin combination therapy resistance. *Medical Hypotheses*. 2017;109(6);176-180 [IF-1.38]
23. Raajamani S, Arun R, Sengodan T, Thangavelu S. Augmented anticancer activity of naringenin-loaded TPGS polymeric nanosuspension for drug resistive MCF-7 human breast cancer cells. *Drug Development and Industrial Pharmacy*. 2018;44(11);1752-1761 [IF-2.37]
24. Karthika C, Suresh kumar R. Can curcumin along with chemotherapeutic drug and lipid provide an effective treatment of metastatic colon cancer and alter multidrug resistance?. *Medical Hypotheses*. 2019;3(2);132-149 [IF-1.38]
25. Karri V V S Narayana Reddy, Nagaswamy Venkatesh D, Mannemala S S, Radhakrishna K, Mulukutla S, Sudunagunta D. Ameliorating the antitumor activity of lenalidomide using PLGA nanoparticles for the treatment of multiple myeloma. *Brazilian Journal of Pharmaceutical Sciences*. 2017;53(2);234-245 [IF-1.49]

CONSULTANCY UNDERTAKEN

Organic Capsule

Tablet Preparation

Scaffold Preparation
for Diabetic Foot Ulcer

Bioavailability Studies

Topical Wound Healing

Antiperspirant Formulation
Development

Formulation
Development of Eye Drops

Transdermal
Drug Delivery System

Herbals and Formulations

Nano Formulation Development

Probiotic Saliva Studies

In Situ Gel & Oral Gel –
Veterinary Product Evaluation

Diffusion and Permeability Studies

Modified Tablet Formulation & Herbal Formulation Development

Industry & Institutional Projects Completed/Ongoing : ₹. 49.34 Lakhs



EXPERTISE AND SERVICES WE OFFER..

- Customized drug delivery system ideation and development
- Conventional to nano drug delivery system formulation & optimization
- Pilot plant scaling-up for tablets
- Formulation development of chronic wound related advanced products
- Process & Products troubleshooting
- Regulatory support including gap analysis, dossier filing and training
- Formulation & regulatory to institutions and industries.



For Communication

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Professor & Head,

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Dept. of Pharmaceutics

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Sathish T

Vice President, Regulatory & Corporate Support
M / s. Tablets (India) Ltd, Chennai

It is my honour to write the opening letter for the college's magazine. JSS Ooty has played an indispensable role in grooming me and what I am today, it's completely attributable to JSS faculty's mentorship. I had the advantage of being in the company of great teachers. I still cherish the moments which I had during my bachelors and master's degree at this prestigious institution and my association with JSS, Ooty is eternal.

I am glad to note that the JSS, Ooty has further scaled up its infrastructure and research capabilities and is on par with the global institutions of repute. At this juncture, I must mention that the students passing out from JSS institute stand apart not only in terms of their knowledge but also on the overall development as a professional which opens up lot of job opportunities and better career prospects. I sincerely thank the management and entire faculty for their relentless coaching and guidance in shaping up the student's life.

The association with JSS Institute continues even after the student leaves the campus, which is prudent with the robust activities done to unite and uplift the welfare of alumni.

Before, I conclude, I would like to quote the following

" Education is the most powerful weapon which you can use yo change the world" – Nelson Mandela

" All of us do not have equal talent. But all of us have equal opportunity to develop our talent" – APJ Abdul Kalam

So friends, while you enjoy your college life with your friends, please do utilise the wonderful resources you have got at JSS Ooty in terms of faculties and infrastructure at the fullest.

Wishing you all the very best to become a successful professional!

Dr.K. Bangarurajan, M.Pharm., Ph.D.,
Joint Drugs Controller (India)(Retd.)
Advisor, (Regulations)
Central Drugs Standard Control Organization, New Delhi



Dr.K.Bangarurajan, M.Pharm, Ph.D,
Joint Drugs Controller (India)(Retd.)
Advisor, (Regulations)
Central Drugs Standard Control Organization, New Delhi

New Delhi
23.08.2021

MESSAGE

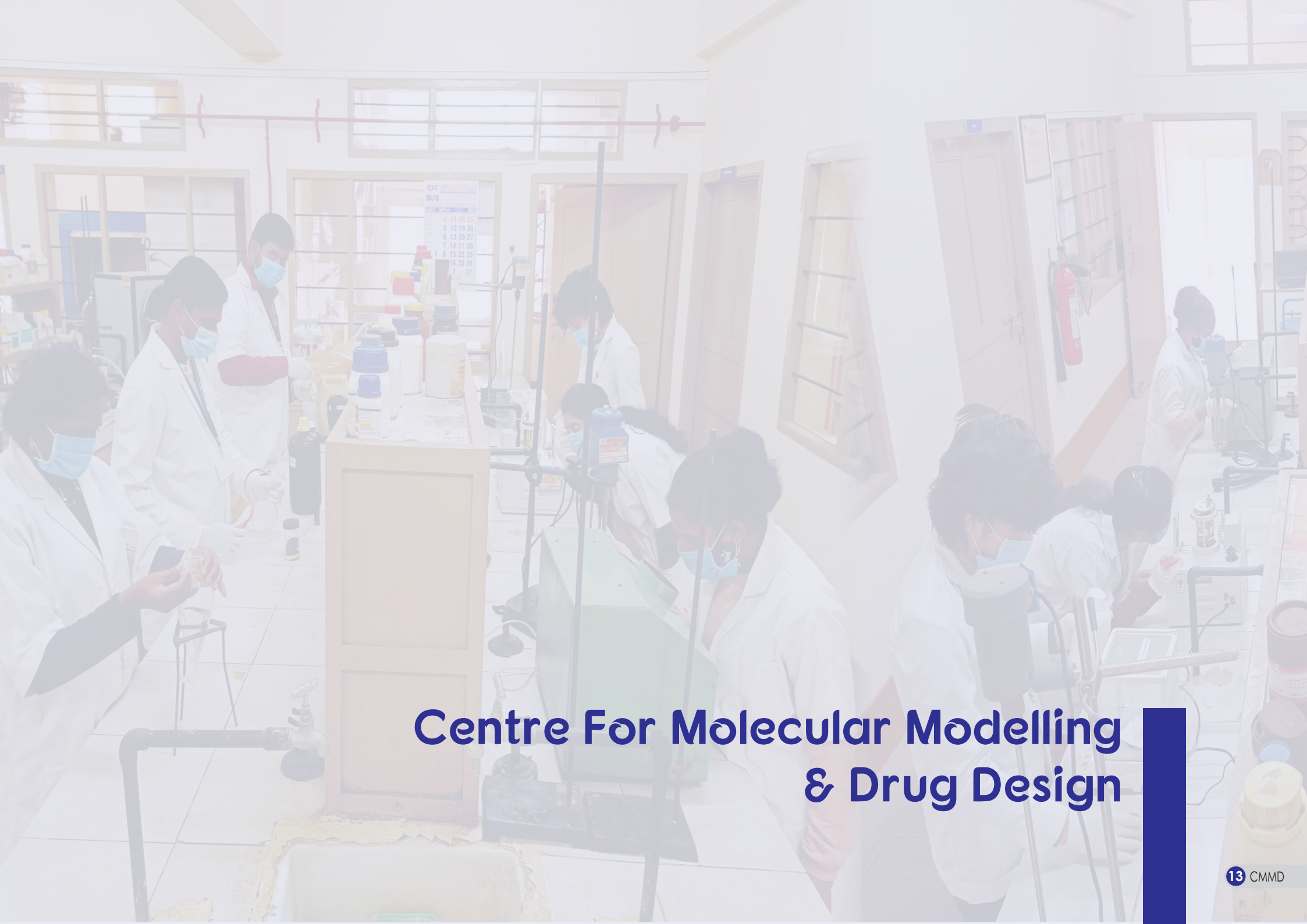
It is my great privilege and pleasure to proudly say that I am an Alumni of the JSS College of Pharmacy, Ooty. I was one of the first batch Ph.D, Scholars from JSS College of Pharmacy, Ooty, who got their Degree Awarded by the Tamil Nadu Dr. M.G.R. Medical University Chennai in 2000.

The present Pro-Chancellor of JSS Academy of Higher Education & Research, Mysuru Dr. B. Suresh, the then Principal of the college and my guide Prof. M.J. Nanjan were always my inspiration to persue my ambition and I am remembering my other faculty members who always encouraged me in all my efforts to achieve the goal at this juncture.

The laboratories and the assistance, resources available in the college and 24* 7 availability of all facilities in the college made me to work in a pleasant and adorable environment.

I am thankful to the Blessings of His Holiness Jagadguru Sri Shivarathri Deshikendra Maha Swamiji, which is continuously guided me to complete the task to achieve the higher position both in my career and whatever ventures I take till date.


(Dr. K. Bangarurajan)



Centre For Molecular Modelling & Drug Design

ALUMNUS



Muthusamy Shanmugam

Director – Novitium Pharma
New Jersey, USA.

July 08, 2021

The Principal,
JSS, Ooty.

It gives me immense pleasure to learn that JSS College of Pharmacy, Ooty is releasing an exclusive brochure to showcase the diverse pharmaceutical research initiatives fostered by the institution. JSSCPO has always been in the forefront of pharmaceutical education and research that have been shown in their achievements.

I congratulate the management, faculty and the researchers for their untiring hard work, dedication and leadership in carving a niche name for the institution in the field of pharmaceutical education and research. It is quite heartening to see JSS contributing to the growth of pharmaceutical research within and outside the country.

I also appreciate the dedication of the faculty of the institution in taking the industry-institution collaboration to new high. The students of JSSCPO have made exemplary contributions for the success of several pharmaceutical companies around the world. I wish to see the institution scaling new peak in the coming years and positively impact the health and welfare of the society.

Thanks and Regards,

Muthusamy Shanmugam



Bob Sandhu

CEO, M/s. Sandhu Products Inc
6052 Industrial Way, Suite. H. Livermore, USA.



ALUMNUS

As an alumni of our beloved JSS College of Pharmacy, it is extremely happy and momentous occasion to learn that our college is releasing an exclusive brochure to showcase the diverse pharmaceutical re-search programs undertaken by the institution.

The research and development (R&D) process while being critical for growth, yet remains the basis of progression for entire pharmaceutical industry. While globally major pharma companies continue to remain invested in future R&D projects, educational institutions are the breeding grounds where seeds are sown in the young minds of budding pharmacists.

With ever increasing venues and opportunities in the field of research and development, it is pleasing to note a systematic approach taken up by our college. This enables the students at our college to be the future scientists and torch bearers for the industry.

I take this opportunity to extend my heartfelt appreciation to the JSS Mahavidhyapeetha, the able leadership of Dr. Dhanabal, an adroit faculty, the student community, and congratulate you all with best wishes for the future.



TESTIMONIAL

TESTIMONIAL



DEPARTMENT OF PHARMACEUTICAL CHEMISTRY CENTRE FOR MOLECULAR MODELLING & DRUG DESIGN (CMMD)

Preamble

The Department of Pharmaceutical Chemistry was established in 1988, aim to impart quality and socially relevant education in Pharmaceutical chemistry at undergraduate, postgraduate and doctorate levels. It was initiated to deliver expertise in the emerging areas of Drug Design and Development, Documentation / Research writing expertise. The department is also committed to deliver skills in the innovative processes for the manufacturing drug and drug intermediates. Our objective is Hit to Lead and Lead Optimization, API Handling and Patenting, *In silico* drug design and development of novel new chemical entities (NCEs) as chemotherapeutic and neurobehavioral agents.

Research Focus & Thrust Areas

Isolation, Characterization & Evaluation of Bioactive Constituents from Natural Sources

Computational Modelling of Neuroprotective Agents against Alzheimer's and Parkinson's disease

Rational Design and Delivery of Polymer - Drug Conjugates as Anticancer Therapeutics

Target Based Drug Design & Custom Synthesis of Novel New Chemical Entities (NCE)

Structure-based Approaches to Antimicrobial Drug Discovery

In Silico Drug Discovery for Cancer Therapeutics

INVESTIGATOR'S PROFILE



Structure based Design of
Antibacterial agents

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Polymeric drug conjugates & Peptide synthesis

Dr. M. J. N. Chandrasekar

DEPUTED AS COORDINATOR-

JSS AHER SCHOOL OF

LIFE SCIENCES, OOTY



Structure based drug design of anticancer agents

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Fatty acid analogues for cancer therapy &
immunomodulatory metal conjugates

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Target based design of
anticancer agents

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Computational approaches and synthesis of
heterocycles targeting Parkinson's disease

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Isolation of bioactives as
Neuroprotective agents

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Structure based design of antibacterial &
antitubercular agents

Dr. Srikanth Jupudi

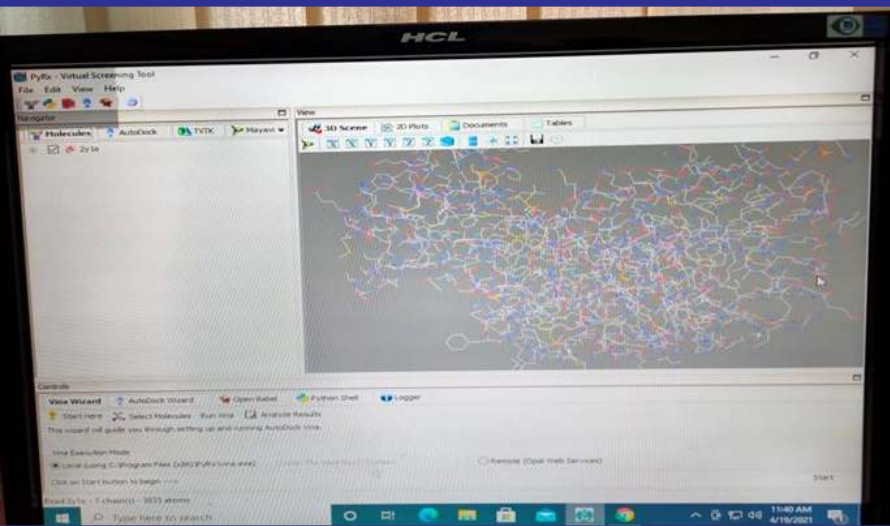
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- Microwave Synthesizer (Catalyst)
- Molecular Modelling Suite
- FT-IR Spectrometer (Perkin Elmer)



COLLABORATIONS WITH INDUSTRIES, INTERNATIONAL & NATIONAL UNIVERSITIES

MAJOR CLIENTS



External Funded Projects (Completed)

PI : Dr.GVS. Ramasarma

Title : R & D Project Substantial grants

Agency : All India Council for Technical Education, New Delhi

Grant : 3.0 Lakhs Period :1997-1998

PI : Dr.GVS. Ramasarma

Title : MODROBS project

Agency : All India Council for Technical Education, New Delhi

Grant : 3.0 Lakhs Period : 1998-99

PI : Dr. S. Badami

Title : Screening and evaluation of anticancer potentials from herbal resources of Nilgiris

Grant : 16.15 Lakhs

Agency : Department of Biotechnology, Govt. of India

Period : 2003-2006

PI : Dr. S. Sankar

Title : EDC Scheme Medical Transcription programme

Agency : All India Council for Technical Education, New Delhi

Grant : 8.0 Lakhs Period : 2006-2009

PI : Dr. MJN. Chandrasekar

Title : Targeting anticancer macromolecular prodrugs

Agency : Department of Science & Technology, New Delhi

Grant : 6.26 Lakhs Period : 2006-2009

PI : Dr. S. Sankar

Title : Isolation, screening and characterization of the fertility regulating phytoconstituents present in the traditional plants of the Nilgiris, *Derris brevipes*, *Durio zibenthinus*

Agency : Council of Science & Industrial Research

Grant : 11.80 Lakhs Period : 2009-2012

PI : Dr. BR. Prasantha Kumar

Title : Computer aided design, synthesis and anti-hyperglycaemic activity of some novel selective glitazones as possible insulin sensitizers

Agency : AICTE-Research Promotion Scheme

Grant : 7.50 Lakhs Period : 2010-2012

PI : Dr. S. Sankar

Title : Synthesis characterization and evaluation of their cytotoxic and antimicrobial activities of some novel heterocyclic compounds

Agency : AICTE-Research Promotion Scheme

Grant : 14.00 Lakhs Period : 2011-2013

External Funded Projects (Completed)

PI : Dr. MJN. Chandrasekar	Agency : University Grants Commission
Title : Design, synthesis and evaluation of some novel dipeptidylpeptidase IV inhibitors as antidiabetic agents	
Grant : 10.86 Lakhs	Period : 2011-2014
PI : Dr. Mohammed Afzal Azam	Agency : DST-Science & Engineering Research Board
Title : Phosphodiesterase inhibitors. Design, synthesis and QSAR studies of PDE 4B-inhibitory benzazoles with anti-inflammatory and bronchodilatory activity	
Grant : 33.58 Lakhs	Period : 2013-2017
PI : Dr. MJN. Chandrasekar	Agency : Dept. of Biotechnology, Govt. of India
Title : Virtual high throughput screening (vHTS), design, synthesis, in vitro/ in vivo evaluation and 3D-QSAR investigations of some novel β - carboline and carbazole lead molecules as antineoplastic agents.	
Grant : 47.66 Lakhs	Period : 2014-2017
PI : Dr. MJN. Chandrasekar	Agency : Defense Research & Development Organisation, Govt. of India, New Delhi
Title : Development and Evaluation of Plant based Radioprotective agents.	
Grant : 17.09 Lakhs	Period : 2015-2019
PI : Dr. Mohammed Afzal Azam	Agency : DST-Science & Engineering Research Board
Title : <i>In Silico</i> Design Synthesis and Evaluation of MurD and MurE Ligase Inhibitors Against Methicillin Resistant Staphylococcus aureus	
Grant : 42.59 Lakhs	Period : 2017-2020
PI : Dr. MJN. Chandrasekar	Agency : DBT North East Twinning Govt. of India New Delhi
Title : Phase transition mediated targeting of thermosensitive polymer drug conjugates to human ovarian tumours	
Grant : 28.33 Lakhs	Period : 2016-2019

External Funded Projects (Ongoing)

PI : Dr. S. Jubie	Agency : AICTE Research Promotion Scheme, New Delhi
Title : Development of BRCA1 mimetics for breast cancer therapy: An in silico approach	
Grant : 7.00 Lakhs	Period : 2020-2022
PI: Dr. R. Kalirajan	Agency : Drug Discovery Hackathon (DDH 2020)
Title: Optimization, design and synthesis of novel lead molecules against multiple targets of SARS CoV-2	
Grant : 14.35 Lakhs	Period : 2021-2022

Total No. of PhD

Awarded - 26
Ongoing - 26

PhD Fellowships Awarded by Govt. Agencies

- Indian Council of Medical Research (ICMR) ◀
- DST Women Scientist Scheme - A ◀
- Council of Scientific & Industrial Research (CSIR) ◀
- UGC Maulana Azad National Fellowship ◀
- DST Innovation in Science Pursuit for Inspired Research ◀
- DST Senior Research Fellow (SRF) ◀
- AICTE National Doctoral Fellowship (NDF) ◀
- AICTE Quality Improvement Programme (QIP) ◀

Select Publications (Top 25 ; Last 10 Years)

1. Chandrasekar MJN, Kumar SM, Manikandan D, Nanjan MJ. Isolation and evaluation of a polysaccharide from *Prunus amygdalus* as a carrier for transbuccosal delivery of Losartan potassium. *International Journal of Biological Macromolecules*. 2011; 48; 773-778 [IF: 6.953]
2. Kalirajan R, Kulshrestha V, Sankar S, Jubie S. Docking studies, synthesis, characterization of some novel oxazine substituted 9-anilinoacridine derivatives and evaluation for their antioxidant and anticancer activities as topoisomerase II inhibitors. *European Journal of Medicinal Chemistry*. 2012; 56; 217-224 [IF: 6.51]
3. Kumar BRP, Soni M, Kumar SS, Singh K, Patil M, Baig RBN, Adhikary L. Synthesis, glucose uptake activity and structure-activity relationships of some novel glitazones incorporated with glycine, aromatic and alicyclic amine moieties via two carbon acyl linker. *European Journal of Medicinal Chemistry*. 2011; 46 (3); 835-844 [IF: 6.51]
4. Jubie S, Ramesh PN, Dhanabal P, Kalirajan R, Muruganantham N, Shanish Antony A. Synthesis, antidepressant and antimicrobial activities of some novel stearic acid analogues. *European Journal of Medicinal Chemistry*. 2012; 54; 931-935 [IF: 6.51]
5. Kar K, Krithika U, Mithuna, Basu P, Santhosh Kumar S, Reji A, Prashantha Kumar BR. Design, synthesis and glucose uptake activity of some novel glitazones. *Bioorganic Chemistry*. 2014; 56; 27-33 [IF: 5.27]
6. Azam MA, Thatthan J, Jubie S. Dual targeting DNA gyrase B (GyrB) and topoisomerase IV (ParE) inhibitors: A review. *Bioorganic Chemistry*. 2015; 62; 27-33 [IF: 5.27]
7. Jameera A, Jubie S, Nanjan MJ. Estrogen receptor agonists /antagonists in breast cancer therapy: A critical review. *Bioorganic Chemistry*. 2017; 71; 257-274 [IF: 5.27]
8. Manal M, Chandrasekar MJN, GomathiPriya J, Nanjan MJ. Inhibitors of histone deacetylase as antitumor agents: A critical review. *Bioorganic Chemistry*. 2016; 67; 18-42 [IF: 5.27]
9. Nanjan MJ, Mohammed M, Prashantha Kumar BR, Chandrasekar MJN. Thiazolidinediones as antidiabetic agents: A critical review. *Bioorganic Chemistry*. 2018; 77; 548-567 [IF: 5.27]
10. Gomathi Priya Jeyapal, Rajendiran Krishnasamy, Carolyn K Suzuki, Sundararajan Venkatesh, MJN Chandrasekar. In-silico design and synthesis of N9-substituted β -Carbolines as PLK-1inhibitors and their *in-vitro/in-vivo* tumor suppressing evaluation. *Bioorganic Chemistry*. 2019; 88 [IF: 5.27]
11. Santhosh S B, Mohamed Sheik Tharik A, Balakrishnan R M, Muruganandam N, SusitraManjari M, Chandrasekar MJN. Coronavirus disease- COVID-19: New perceptives towards epidemic to pandemic. *Journal of Drug Targeting*. 2020; 28(7-8); 755-759 [IF: 5.121]
12. Azam MA, Jayaram U. Inhibitors of alanine racemase enzyme: A review. *Journal of Enzyme Inhibition and Medicinal Chemistry*. 2016; 31 517-526 [IF: 5.051]
13. Jaishree V, Badami S. Antioxidant and hepatoprotective effect of swertiamarin from *Enicostemma axillare* against d-galactosamine induced acute liver damage in rats. *Journal of Ethnopharmacology*. 2010; 130; 103-106 [IF: 4.36]

14. Selvaraj J, Palanisamy D, Mohammed AA, Nithyanantham M, Rajagopal K, Kannan E. Synthesis and characterization of some novel fatty acid analogues: A preliminary investigation on their activity against human lung carcinoma cell line. *Lipids in Health and Disease*. 2013; 12; 45 [IF: 3.876]
15. S Jubie, SP Dhanabal, M Chaitanya. Isolation of methyl gamma linolenate from spirulina platensis using flash chromatography and its apoptosis inducing effect. *BMC Complementary and Alternative Medicine*. 2015; 15 (1); 1-8 [IF: 3.659]
16. Jubie S, ShyamSundar P, Logesh R, Divakar S, Dhanabal P, Krishnan Namboori PK, Suresh Kumar M. Identification of (2R,3R)-2-(3,4-dihydroxyphenyl)chroman-3-yl-3,4,5-trihydroxy benzoate as multiple inhibitors of SARS-CoV-2 targets; a systematic molecular modelling approach. *RSC Advances*. 2021; 11; 13051 [IF: 3.361]
17. Gowramma B, Senthilkumar R, Kaviarasan L, Kalirajan R, Meyyanathan S N. Development and validation of LC/MS method for the determination of meclizine enantiomers in pharmaceutical formulations. *Drug Development and Industrial Pharmacy*. 2021; 47(3); 361-366 [IF: 3.225]
18. Azam MA, Srikanth J, Saha N, Paul RK. Combining molecular docking and molecular dynamics studies for modelling *Staphylococcus aureus* MurD inhibitory activity. *SAR and QSAR in environmental Research*. 2019; 30(1); 1-20 [IF: 3.0]
19. Azam MA, Srikanth J. Extra precision docking, free energy calculation and molecular dynamics studies on glutamic acid derivatives as MurD inhibitors. *Computational Biology and Chemistry*. 2017; 69; 55-63 [IF: 2.877]
20. Kaviarasan L, Elizabeth E, Praveen TK, Kalirajan R, Manal M, Gowramma B. 1,3,4-Thiadiazolo (3,2-A) Pyrimidine-6-Carbonitrile Scaffold as PARP1 Inhibitors. *Anticancer agents in medicinal chemistry*. 2020; 15 [IF: 2.505]
21. Vidyasrilekha Y, Mohammad AA, Ashish D. Synthesis, Molecular Docking and Biological Evaluation of 2-Aryloxy-N-Phenylacetamide and N'-(2-Aryloxyoxyacetyl) Benzohydrazide Derivatives as Potential Antibacterial Agents. *Chemistry and Biodiversity*. 2021; 18 (4); e2000907 [IF: 2.408].
22. Swarupa Rani G, Mohammed AA. Design, Synthesis, Antibacterial Evaluation and Molecular Docking Studies of Some Newer Benzothiazole Containing Aryl and AlkarylHydrazides. *Chemistry and Biodiversity*. 2021; 29 [IF: 2.408].
23. Srikanth J, Mohammed AA and Ashish W. Synthesis, molecular docking, binding free energy calculation and molecular dynamics simulation studies of benzothiazol-2-ylcarbomodithioates as *Staphylococcus aureus* MurD inhibitors. *Journal of Receptor and Signal Transduction*. 2019; 39 (3); 283-293 [IF: 2.09]
24. Srikanth J, Azam MA, Wadhvani A. Design, synthesis and molecular modelling of phenoxyacetohydrazide derivatives as *Staphylococcus aureus* MurD inhibitors. *Chemical Papers* 2020; 75; 1221-1235 [IF: 2.09]
25. Sravanthi B, Kaviarasan L, Praveen TK, SaiKiran PSS, Pavankumar C, Gowramma B. Synthesis and Pharmacological Evaluation of 1, 3, 4-Thiadiazole bearing Pyrimidine Derivatives as STAT3 Inhibitor for Treatment of Breast Cancer. *Journal of the Iranian Chemical Society*. 2020; 17; 2359-2370 [IF: 2.019]

EXPERTISE & SERVICES WE OFFER..

- Target Based Drug Design & *In Silico* Virtual Screening
- Green Synthesis of Small Heterocyclic Molecules
- Custom Synthesis
- Impurity Synthesis
- Synthetic Route Development of Active Pharmaceutical Ingredient



For Communication

Dr Mohd. Afzal Azam

Professor & Head,

Centre for Molecular Modelling and Drug Design

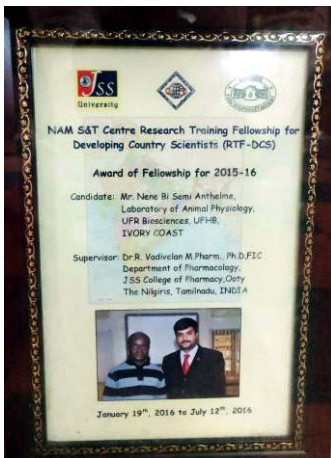
Dept. of Pharmaceutical Chemistry.

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International Fellowships Mentored



A photograph of a laboratory interior, likely a research center. The room features several workstations with glass partitions, computer monitors, and various pieces of scientific equipment. The lighting is bright, and the overall atmosphere is clean and professional. The text 'Centre For Natural Products Research' is overlaid in blue on the right side of the image.

Centre For Natural Products Research



Jayaseelan J B. Pharm, MBA

Founder Director

M/s. Sai Mirra Innopharm Pvt. Ltd, M/s. Delvin Formulations Pvt. Ltd.
M/s. Delvin Surgicals Pvt. Ltd.

The entire globe now recognizes the exigency of healthcare transformation, and I am delighted to witness that one of our institutions, JSS College of Pharmacy, Ooty spearheading healthcare transformation with their distinguished track in pharmaceutical research & innovation. They are always at the forefront of their research credentials, capabilities, and resources.

I congratulate the leadership and team for the compilation of this book as it is one of the paramount priorities, and it is high time to cement Industry-Institution collaborations. As collated in this book, the research accomplishments of JSSCPO have impacted commendably to benchmark our institutions nationally and globally. Also, it is praiseworthy that the JSSCPO research outcomes have a remarkable reach to broader capacities both within and beyond borders. The research portfolio showcased in the brochure is impressively collating their strengths in advancing healthcare research and innovation. I firmly believe that JSSCPO can captivate external partners and ventures, and together they are much more to unveil shortly. I congratulate the entire team at JSSCPO and my best wishes.

From the industry point of view, we found the candidates recruited from JSS university is top class. The orientation towards the Research and practical knowledge of students are excellent.

J. Yuvaraj B. Pharm, MBA

Executive Director

M/s. Delvin Formulations, Chennai
Proud Alumnus, B. Pharmacy (1986 - 1990)



I am proud to be the alumni of JSS College of Pharmacy-Ooty. Alumni networking to most global cities be it academics or Industry. Wholistic development is what makes our college special. The days that I cherish has shaped me academically & personally. As a dedicated college in the field of Pharmacy, JSS had unmatched infrastructure in academics & research, equipment's on par with leading Industries.

Also, the exposure we had with seminars; Industrial training & research Projects were cut above the rest winning accolades in international conferences.

Respects and love to my teachers who are the best in the field with the depth of knowledge and support.





DEPARTMENT OF PHARMACOGNOSY CENTRE FOR NATURAL PRODUCTS RESEARCH

Preamble

The Department of Pharmacognosy has established in the year 1988, with the vision to explore the treasure of medicinal plants of Nilgiris Biosphere and to become the leader in launching natural commercial products. The Centre for Natural Products Research aims to isolate lead molecules from natural sources to target infectious, neurodegenerative & metabolic disorders by isolating the lead molecules from the natural source. The Centre is also pursuing a high level of advanced and competent research on solubility and bio-availability issues of herbal drugs by making nano-herbal formulations using green synthesis. Department has been awarded research grants from various Government funding organizations such as DST, AYUSH, ICMR, AICTE and other private organisations.

Cognitive Impairment

Cosmetic herbal formulations

Green Synthesis

Nano Herbal Formulations

Solid Oral Herbal Tablets

Cancer Research

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"IMMUNOMODULATORY STUDIES"

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COLLABORATIONS WITH INDUSTRIES, INTERNATIONAL & NATIONAL UNIVERSITIES



TECHNOLOGY TRANSFER AVAILABLE

- Patent No: 352435, Awarded: 28.11.2018. S.P. Dhanabal S.Jubie, MVNL Chaitanya. Isolation of 5-heptadeca-5, 11-trienyl 1,3,4-oxadiazole-2 as a novel human topopoison lead.
- Patent No: 365340, Awarded: 28.11.2018. S.P. Dhanabal, S.Jubie, MVNL Chaitanya. Isolation of Sulpha quinovosyl diacyl glycerol—a human topopoison 1 using Flash Chromatography.



MAJOR CLIENTS

External Funded Projects (Completed)

<p>PI : Dr B. Duraiswamy</p> <p>Title : Mechanism of action of certain Aurvedic medicinal plants on Alzheimer's by Dipeptidyl peptidase-4 inhibition using herbs</p> <p>Grant : 25 L</p>	<p>Agency : Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa Rigpa and Homoeopathy (AYUSH), New Delhi.</p> <p>Period : 2015 - 2018</p>
<p>PI : Dr. S. P. Dhanabal</p> <p>Title : Pharmacological evaluation of medicinal plants from India & South Africa bilateral based on Indigenous knowledge for anti - cancer and anti-tuberculosis potential</p> <p>Grant : 29 L</p>	<p>Agency : Department of Science & Technology, Govt. of India Indo-South Africa</p> <p>Period : 2014 - 2017</p>
<p>PI : Dr. S. P. Dhanabal</p> <p>Title : Biological Evaluation of constituents of Spirulina platensis on macromolecular entities</p> <p>Grant : 49 L</p>	<p>Agency : DST-Science & Engineering Research Board Govt. of India</p> <p>Period : 2013 - 2017</p>
<p>PI : Dr. S. P. Dhanabal</p> <p>Title : Phytochemical & Pharmacological evaluation of some indigenous plants for psoriasis control.</p> <p>Grant : 18 L</p>	<p>Agency : AICTE- Research Promotion Scheme</p> <p>Period : 2010 - 2012</p>
<p>PI : Dr. S. P. Dhanabal</p> <p>Title : Development of novel anti tumour agents from Spirulina platensis: A semisynthetic approach.</p> <p>Grant : 10.87 L</p>	<p>Agency : Department of Science and Technology, Govt. of India</p> <p>Period : 2011 - 2012</p>

Total No. of PhD

Awarded : 43
Ongoing : 11

PhD Fellowships Awarded by Govt. Agencies

- Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH) -New Delhi ◀
- Indian Council of Medical Research ◀
- Council of Science & Industrial Research ◀
- University Grants Commission ◀
- AICTE- National Doctoral Fellowship ◀
- AICTE-Quality Improvement Programme ◀

Select Publications (Top 25 ; Last 10 Years)

- Jayasankar Kosaraju, Rizwan Basha Katwal, Anil Dubala, Chinni Santhivardhan, MN Satish Kumar, Basavan Duraiswamy, P1-223 : Vildagliptin : A dipeptidyl peptidase-IV inhibitor ameliorates Alzheimer's disease. *Alzheimer's & Dementia Journal proceedings*, 2012, 08(5):185 [IF: 17.12]
- P. Divya Bhargavi, B. Duraiswamy and A. Vasudha; In vitro anti-hyperlipidemic activity of seed extract of *Syzygium cumini* Linn, *World journal of pharmacy and pharmaceuticals sciences*, 2018, 7(6) 1606-1618. 7.421 [IF:7.4]
- Logesh Rajan, Dhanabal Palanisamy, Suresh K Mohankumar. Targeting obesity with plant-derived pancreatic lipase inhibitors: A comprehensive review. *Pharmacological Research*. 2020:151(10);10461 [IF: 5.8].
- Kosaraju J, Gali C.C, Khatwal R.B, Dubala A, Chinni S, Holsinger R.M.D, Madhunapantula V.S.R., Nataraj S.K.M., Basavan D, Saxagliptin: A dipeptidyl peptidase-4 inhibitor ameliorates streptozotocin induced Alzheimer's disease, *Neuropharmacology*, 2013:72(2);291 [IF: 4.91].
- Jose A., Chaitanya M.V.N.L, Kannan E, Madhunapantula S.V, Tricaproin isolated from *Simarouba glauca* inhibits the growth of human colorectal Carcinoma cell lines by targeting Class-1 Histone deacetylases, *Frontiers In Pharmacology*:2018:2018:9:150 [IF: 4.23].
- Gupta S, Basavan D, Muthureddy Nataraj S.K, Raju K.R.S, Babu U.V, L.m. S.K, Gupta R, Assessment of inhibitory potential of *Pothos scandens* L. on ovalbumin-induced airway hyperresponsiveness in balb/c mice, *International Immunopharmacology*:2014:18:151 [IF: 3.94].
- Kamble B, Gupta A, Moothedath I, Khatal L, Janrao S, Jadhav A, Duraiswamy B, Effects of *Gymnema sylvestre* extract on the pharmacokinetics and pharmacodynamics of glimepiride in streptozotocin induced diabetic rats, *Chemico Biological Interactions*, 2016, 145:30 [IF: 3.72]
- G. Neelamma, B. Duraiswamy, P. Dhamodaran, Pharmacognostical, Phytochemical and Pharmacological perspective of *Clitoria ternatea* *International Journal of Current Trends in Pharmaceutical Research*, 2016, 4(3):31-37 [IF: 3.2]
- Kosaraju, J. Tam, K. Y. Basavan, D., Novel dual GLP-1 and GIP receptor analog attenuates high-fat diet-induced disease progression in 3XTg-AD mice, *Journal of The Neurological Sciences*: 2017:381:374 [IF: 3.12].
- Kosaraju J, Madhunapantula S.V, Chinni S, Khatwal R.B, Dubala A, Muthureddy Nataraj S.K, Basavan D, Dipeptidyl peptidase-4 inhibition by *Pterocarpus marsupium* and *Eugenia jambolana* ameliorates streptozotocin induced Alzheimer's disease, *Behavioural Brain Research*, 2014: 267:55 [IF: 2.98].
- Kosaraju J, Dubala A, Chinni S, Khatwal R.B, Satish Kumar M.N, Basavan D., A molecular connection of *Pterocarpus marsupium*, *Eugenia jambolana* and *Gymnema sylvestre* with dipeptidyl peptidase-4 in the treatment of diabetes, *Pharmaceutical Biology*, 2014: 52(2);268 [IF: 2.97]
- Kamble B, Gupta A, Patil D, Janrao S, Khatal L, Duraiswamy B, Quantitative estimation of gymnemagenin in *Gymnema sylvestre* extract and its marketed formulations using the HPLC-ESI-MS/MS method, *Phytochemical Analysis*, 2013:24(2);134 [IF: 2.77].
- Basavan D, Chalichem NSS, Kumar SKM, Phytoconstituents and their possible mechanistic profile for Alzheimer's Disease - A Literature Review, *Current Drug Targets*, 2019, 14:03 [IF: 2.63].

- 14.Kosaraju J, Murthy V, Khatwal R.B, Dubala A, Chinni S, Muthureddy Nataraj S.K, Basavan D, Vildagliptin: An anti-diabetes agent ameliorates cognitive deficits and pathology observed in streptozotocin-induced Alzheimer's disease, *Journal of Pharmacy and Pharmacology*: 2013;65:12 [IF : 2.57].
- 15.Thekkekkara D, Basavan D, Chandna S, Nanjan M.J, A combination of resveratrol & diindolylmethane, a potent radioprotector, *International Journal of Radiation Biology*:2018;94:554 [IF : 2.37].
- 16.Vedpal, Jupudi S, Jubie S, Deepika NP, Dhanabal SP, A new pyrimidine alkaloid from the roots of *Tadehagi triquetrum* (L.) H.Ohashi, *Natural product research*:2019;08:30 [IF : 2.16].
- 17.Unni Jayaram, Vedpal, Ashish Wadhvani, S. P. Dhanabal, Isolation and characterization of flavonoids from the roots of medicinal plant *Tadehagi triquetrum* (L.) H.Ohashi, *Natural product research*:2020;34:19 [IF : 2.16].
- 18.Kamble B, Gupta A, Patil D, Khatal L, Janrao S, Moothedath I, Duraiswamy B, Determination of gymnemagenin in rat plasma using high-performance liquid chromatography-tandem mass spectrometry: Application to pharmacokinetics after oral administration of *Gymnema sylvestre* extract, *Biomedical Chromatography*: 2013;27:669 [IF : 1.73].
- 19.Kamble B, Gupta A, Moothedath I, Khatal L, Janrao S, Jadhav A, Duraiswamy B, Effects of *Gymnema sylvestre* extract on the pharmacokinetics and pharmacodynamics of glimepiride in streptozotocin induced diabetic rats, *Chemico Biological Interactions*, 2016, 145:30 [IF:1.73].
- 20.Ramu R, Shirahatti P.S, Dhanabal S.P, Zameer F, Dhananjaya B.L, Nagendra Prasad M.N, Investigation of antihyperglycaemic activity of banana (*Musa* sp. Var. Nanjangud rasa bale) flower in normal and diabetic rats, *Pharmacognosy Magazine*: 2017:13 [IF : 1.31].
- 21.Gupta S, Duraiswamy B., Satishkumar M.N, Peritoneal mast cell stabilization potential of *Pothos scandens* L., *Indian Journal of Pharmacology*, 2013: 45:83 [IF : 0.89].
- 22.Ramu G, Dhanabal S.P, Antioxidant studies on ethanol extracts from two selected genera of Indian Lamiaceae, *Indian Journal of Pharmaceutical Sciences*, 2015, 77:380 [IF : 0.72].
- 23.Gupta Saurabh, Duraiswamy B, NM Satishkumar, Pharmacognostical studies of leaves of *Combretum albidum* G. Don, *Indian Journal of Pharmacology*, 2013; 45: 1: 99-102. [IF : 1.07]
- 24.Nehru Sai Suresh Chalichem, Chaitanya Gonugunta, Praveen Thaggikuppe Krishnamurthy and Basavan Duraiswamy. DPP4 Inhibitors can be a drug of Choice for Type 3 Diabetes : A mini Review, *American Journal of Alzheimer's Disease & other dementias*, 2017, 1-8 [IF: 1.8]
- 25.B. Vanitha, B. Duraiswamy. In vitro assessment, isolation and spectral analysis of the chloroform fraction of *Diospyros kaki* fruit *International Journal of Pharmaceutical Sciences and Research*, 2018, 9 (1): 140-149 [IF: 1.5]

Isolation & Characterization
of Phytochemicals

Commercial herbal
product development

Extraction, Fractionation and Analysis
of Fruits, Leaves and Seeds samples

**₹.170/- Lakhs Worth
Industry/institutional Projects
(Completed & Ongoing)**

Herbal Drug Market

- As per WHO, Traditional herbal medicines are getting significant attention in global health management.
- Traditional herbal medicines played a prominent role in the strategy to contain and treat chronic diseases such as Diabetes, Alzheimer's etc.,
- 80% of African/Asian population uses traditional herbal medicine & the worldwide annual market for these products approaches US\$ 60 billion.

Centre For Natural Products Research

Evaluation of Herbal Products for sleep disorders, Alzheimer's, Malnutrition, Skin & Hair cosmetics, Immunomodulatory action

Solubility & Bioavailability studies-Green nano technology
Pre-clinical *In-vitro* & *In-vivo* studies

Formulation of herbal based

- Creams
- Syrups
- Lotions
- Tablets
- Nano-Herbal formulations

- Extraction & Isolation of active molecules from plants
- Standardization of natural products
- Cutting Edge Infrastructure: HPTLC, F-Dryer, Gas Chromatography, Flash chromatography

- New Product Development
- Technology transfer to Industries
- Laboratory setup as per GMP/Non-GMP Protocols
- All laboratory procedures as per SOPs

PRODUCT DEVELOPMENT CYCLE

Selection of Herbal Drugs & Proof of Concept

- Selection & collection of plant material.
- Characterization of plant extracts/powders
- Proof of concept and selection of dose as per study protocol

Product Development

- Product of interest will be developed by following Ayurvedic formulary and AYUSH guidelines.

In-vitro / In-vivo Studies & Patent Services

- Evaluation of product using *In-vitro* & *In-vivo* animal models for respective activity
- Services - Intellectual Property Rights

For Communication

Dr B. Duraiswamy

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Adjunct Faculty Visits





Centre For Preclinical Research



Badrinath Kumar

Pharmacist 4915 BROADWAY
NEW YORK, NY 10034
Alumni and former faculty of JSSCP, Ooty

It is my pleasure to announce the exemplary efforts of one of our institutions, JSS College of Pharmacy, Ooty, in producing a detailed brochure created in order to present the innovative lines of modern pharmaceutical research.

Pharmaceuticals is an ever-changing field distinguished by new discoveries in drug research and technology through impressive disciplines dedicated to furthering this era of modern medicine. The inspiration for such efforts can be credited to the pharmacy educational institutions who endeavor to guide professionals through detailed research programs designed to continue contribution to the field of pharmacy.

JSS College of Pharmacy Ooty is one of the pioneer institutions in the field of Pharmacy Practice and Clinical Pharmacy in whole of India. The expertise and research input in the patient centered aspect of the Pharmacy practice department is laudable and the outcomes of their research activity has direct impact on the practice of pharmacy. The JSS College of Pharmacy, Ooty, is and will continue to represent the future pharmaceutical and research endeavors of the student community, both nationally and internationally. The combination of fieldwork, institutional investment, and theoretical sciences has paved the way for strong accomplishment in the pharmaceutical industry.

I offer my sincere commendation to JSS Mahavidyapeetha, JSS Academy of Higher Education & Research for the genuine support and guidance of Dr. Dhanabal, the experienced faculty, and the hard-working student community.

Congratulations to all involved in this impressive & momentous process.

INWOOD PHARMACY



Dhanasekaran Subramanian

Senior Scientist / Manager
Novitium pharma
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It is a distinguishable moment to write this short note, from New Jersey USA, on JSS College of Pharmacy, Ootacamund, India (JSSCP, Ooty) who is actively compiling an extensive brochure focusing their pharmaceutical research achievements. This institution has an incredible accomplishments and accolades in pharmaceutical research, nationally and internationally, for more than four decades. This makes all our alumni very proud, including me. As an alumnus (1984-1990) and later a proud faculty (1990-1994), I affirm that our institution has envisioned the need, the importance and the usefulness of pharmaceutical research since then. To be a part of the brochure, I am delighted to share my thoughts and selective experience here. Under the leadership of Dr. B. Suresh, JSSCP initially started Diploma, B.Pharm and M.Pharm in 4 key disciplines and eventually grew with nearly ten disciplines encompassing the modern technological advancements. Since 1989, our institution produced excellent numbers of bright scholars who contributed to surplus original research manuscripts and continuing till date. Our institution remains the forerunner in the field of Pharmacy.

Following Dr. B. Suresh, an eminent scholar and a proud alumnus Dr. Dhanabal P, was designated to lead JSSCP, Ooty. He steered the institution to another new scale of excellence in the field of pharmacy stressing the research oriented education as key requirement. My recent visits to the institution makes me admired on the rapid development and involvement of faculties and students working hard, not limiting to any time. Industry Institution Interactions were one of the main focus of the institution which expanded many bench based research to over the counter delivery of the pharmaceuticals. Since 1990, I have experienced the presence of our Alumni widely spread across the globe, mainly in USA, UK and Middle East. They possess key positions in the research, educational, pharmaceutical manufacturing and community pharmacy. Pharmaceutical Industries like "Novitium Pharma" has been materialistic to provide more opportunities to the pharmacy scholars and delivers high quality medicines.

Congratulations Dr. Dhanabal, Principal and his dynamic team for their contribution to the brochure. I wish them all the success.





DEPARTMENT OF PHARMACOLOGY (DST-FIST SPONSORED) CENTRE FOR PRECLINICAL RESEARCH

Preamble

The Department of Pharmacology was established in the year 1988. The department offers teaching and training to undergraduate, Post graduate and Ph.D., scholars in Pharmacology and Toxicology. The department is sponsored under "Fund for Improvement of S & T Infrastructure in Universities and Higher Educational Institutions (FIST)" Program of Dept. of Science and Technology (DST), Govt. of India, in the year 2015. The Centre for Preclinical Research has facilities to carry out research at molecular level to in vivo studies in experimental animals. The Centre offers preclinical consultancy services to Industries and Institutions. The Centre has CPCSEA approved animal house with a commercial license, LCMS/MS, RT-PCR, Zeta sizer, Rodent Stereotaxic apparatus, Video tracking system with animal behavioral study mazes, Small animal imaging system, Multidetector 96 well plate reader, Power Lab-physiological data acquisition system, Autoanalyzer and Cell analyzer.

Research Focus / Thrust Areas

Neuropharmacology

Drug Discovery &
Molecular Pharmacology

Regulatory Toxicology

Metabolic Disorders

Pain & Inflammation

INVESTIGATOR'S PROFILE



NANO BASED TARGETED DRUG DELIVERY TO CANCER, TYPE 2
DIABETES & BRAIN (ALZHEIMER'S & PARKINSON'S DISEASE)

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NEURODEGENERATIVE &
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NEURODEGENERATIVE DISEASES &
NEURONAL SIGNALING

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WOUND HEALING, TOXICOLOGY,
& NEURODEGENERATIVE DISORDERS

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NEURODEGENERATIVE &
METABOLIC DISORDERS

Mr. J. Saravanan

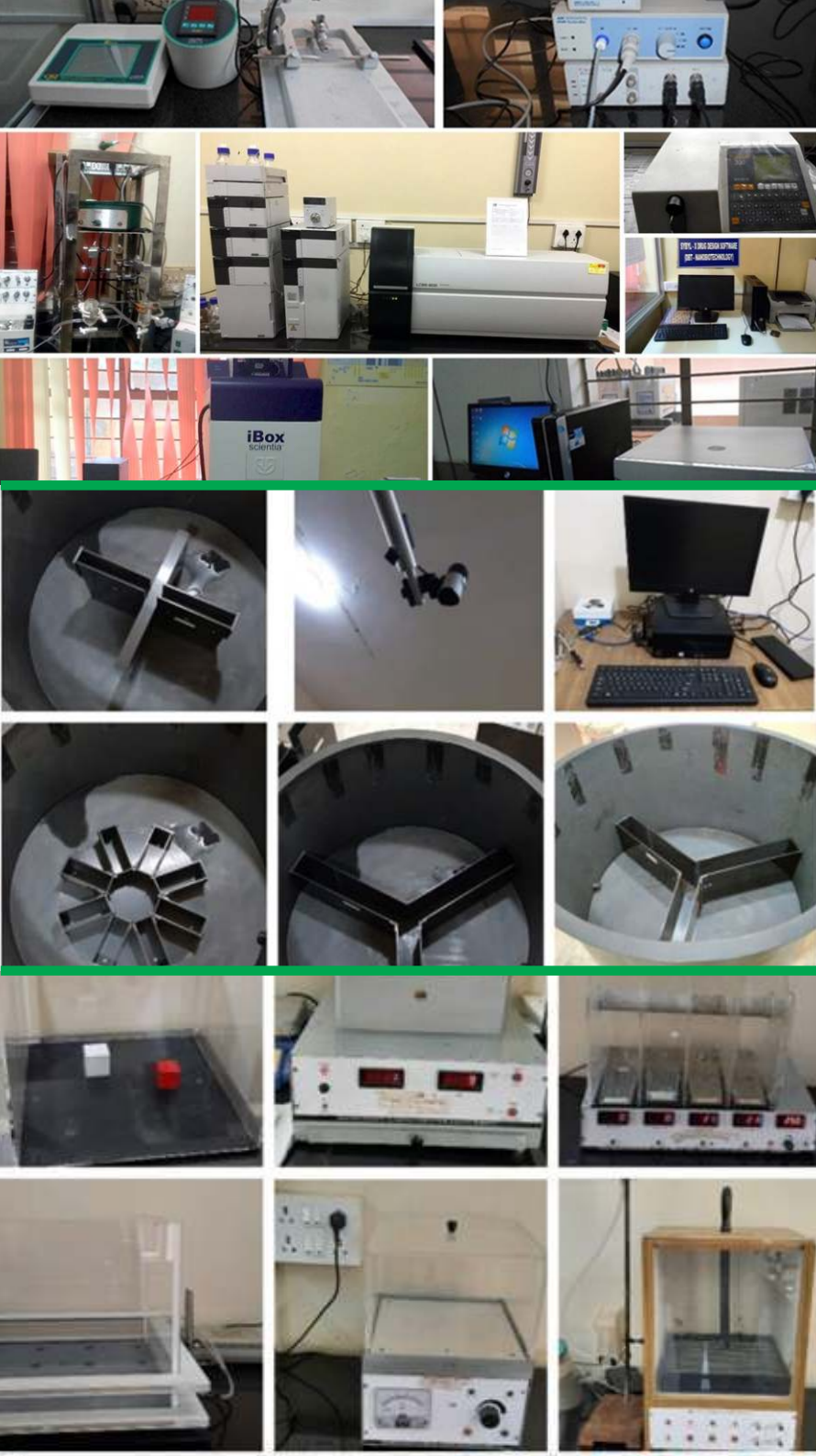
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DRUG DISCOVERY
& MOLECULAR PHARMACOLOGY

Dr. S. Divakar

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DRUG DISCOVERY & MOLECULAR PHARMACOLOGY

- LCMS/MS (Shimadzu)
- Stereotaxic Apparatus (Stoetling USA)
- RT-PCR (Rotor Gene Q)
- Powerlab physiological data acquisition
- Small animal imaging system (iBox Scientia)
- Sybyl X drug discovery software
- Multidetector microplate reader (Tecan)
- Autoanalyser (GSK)
- Customized Organ Bath



BEHAVIOURAL PHARMACOLOGY

- Video tracking system with digital data acquisition
- Morris water maze
- Radial arm maze
- Y Maze
- Plus maze



PRECLINICAL EVALUATION

- Dark/Light chamber, IR Actimeter, Actophotometer, Rotarod apparatus
- Eddy's hot plate, Randall Sellitto Analgesiometer, Digital Plethysmometer
- Electroconvulsimeter, Pole Climbing apparatus, Incapacitance meter

COLLABORATIONS WITH INDUSTRIES, INTERNATIONAL & NATIONAL UNIVERSITIES

MAJOR CLIENTS



TECHNOLOGY TRANSFER AVAILABLE

- Patent Application No: 2266/CHE/2012, Published: 08.04.2016. Dr. M J Nanjan, Dr. T. K Praveen and Dr. M J N Chandrasekar. Novel Glitazones as PPAR alpha and PPAR gamma agonists and alpha glucosidase inhibitors
- Patent Application No: 201941025298, Published: 02.08.2019. Dr. T. K Praveen, Chintamaneni Pavan Kumar and Pindiprolu Satya Sesha Sai Kiran. Surface Modified Benzyl quinolone carboxylic acid- Stearylamine Conjugates for management of Alzheimer's disease.
- Patent Application No: 201941031322, Published: 02.08.2019. Dr. T. K Praveen. Solid Lipid Nanocarriers of Surface Modified Niclosamide for targeting of Sialic Acid Receptors.
- Patent Application No: 2021101579, Awarded- 27/04/2021. Tiwari, Gaurav; Tiwari, Ruchi; Shekhar, Ravi; Singh, Ajeet; Ramachandran, Vadivelan; Sharma, Pooja; Kumar, Avnish and Asthana, Monika. System and Method for Identification/Prediction of Breast tumor at early stage.
- Patent Application No: 2021102656, Awarded- 23/06/2021. Tiwari, Gaurav; Singh, Balwan; Dubey, Harikesh; Ramachandran, Vadivelan; Singaravel, Sengottuvelu; Dubey, Anamika and Tiwari, Ruchi. A method and compositions for treatment of Alzheimer's disease.
- Patent Application No: 202021103397, Awarded- 01/07/2021. . Tiwari, Gaurav; Tiwari, Ruchi; Singh, Balwan; Shukla, Ankit; Ramachandran, Vadivelan; Kumar Singh, Mahendra; Ahmad Ansari, Vaseem and Ahamad, Faiyaz. A medical device for detecting corona virus symptoms.

External Funded Projects (Completed)

PI : Dr. B Suresh Agency : AICTE - Research & Development
 Title : Review, revitalize the traditional medicine against ulcers and diabetes
 Grant : 10.00 Lakhs Period : 1998 - 2001

PI : Dr. K. Elango Agency : AICTE - MODROBS
 Title : Modernization of pharmacology laboratory
 Grant : 14.00 Lakhs Period : 2002 – 2004

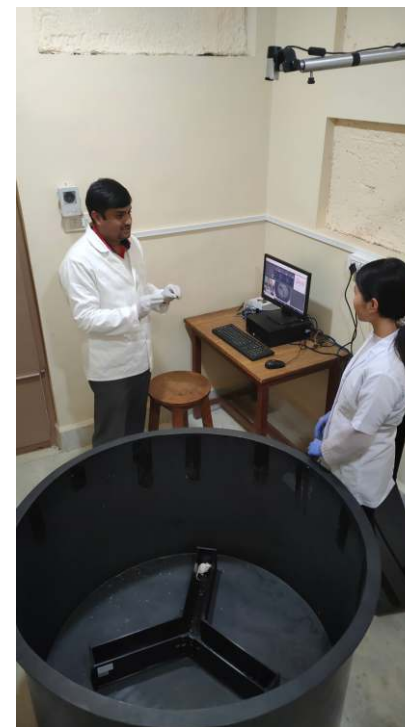
PI : Dr. K. Elango Agency : AICTE - MODROBS
 Title : Modernization and up gradation of pharmacology laboratory for research excellence in anti-inflammatory and osteoarthritic area
 Grant : 14.50 Lakhs Period : 2006 – 2009

PI : Dr. K. Elango Agency : AICTE - RPS
 Title : Isolation of bioactive principles from *Mucuna pruriens* and *Tinospora cardifolia* and their pharmacological activities in experimental Parkinsonism models
 Grant : 18.50 Lakhs Period : 2009 – 2012

PI : Dr. K. Elango Agency : AICTE - MODROBS
 Title : Modernization of molecular pharmacology laboratory for in vitro pharmacokinetic and pharmacodynamic interaction studies
 Grant : 12.00 Lakhs Period : 2012 – 2013

PI : Dr. Praveen T K Agency : Dept. of Biotechnology, New Delhi
 Title : Neuroprotection by nano allosteric potentiators of M1 Muscarinic Acetyl Choline receptor for reversal learning management in Alzheimer's disease
 Grant : 72.20 Lakhs Period : 2015- 2018

PI : Dr. M.N. Sathish Kumar Agency : DST- FIST
 Title : Fund for Improvement of Science and Technology Infrastructure (FIST)
 Grant : 84.00 Lakhs Period : 2014- 2019



External Funded Projects (Ongoing)

<p>PI : Dr. Praveen T K</p> <p>Title : Adipocyte specific delivery of oral thiazolidinedione nanoparticles functionalized with RGD and P3 peptides to reduce side effects and improve efficacy</p>	<p>Agency : DST - Nanomission</p> <p>Grant : 50.84 Lakhs</p> <p>Period : 2019 - 2022</p>
<p>PI : Dr. Praveen T K</p> <p>Title : Death receptor-5 targeted lipid nanoparticles of γ- secretase inhibitor for simultaneous targeting of breast cancer cells and cancer stem cells</p>	<p>Agency : DBT - Twinning Project</p> <p>Grant : 48.84 Lakhs</p> <p>Period : 2019 - 2022</p>
<p>PI : Dr. Justin A</p> <p>Title : Design, synthesis and evaluation of novel glitazones for Alzheimer's disease: Activation of PGC-1α signaling via PPAR-γ receptors</p>	<p>Agency : DST - SERB</p> <p>Grant : 31.41 Lakhs</p> <p>Period : 2019 - 2022</p>
<p>PI : Dr. Praveen T K</p> <p>Title : CD133 mAbs surface modified carbon nanotubes loaded with surviving siRNA and Paclitaxel for the treatment of non-small cell lung cancer</p>	<p>Agency : DST - International Bilateral Project - Indo Uzbekistan</p> <p>Grant : 117 Lakhs</p> <p>Period : 2021- 2024</p>



Total No. of PhD

Awarded - 32
Ongoing - 21

PhD Fellowships Awarded by Govt. Agencies

- Indian Council of Medical Research (ICMR) ◀
- Council of Scientific & Industrial Research (CSIR) ◀
- Dept. of Science & Technology, Govt. of India (DST) ◀
- DST-Women Scientist Scheme-A (DST WOS-A) ◀
- AICTE- National Doctoral Fellowship (AICTE-NDF) ◀
- Lady TATA Fellowship ◀

Select Publications (Top 25 ; Last 10 Years)

1. Raju RS, Kumar MS, Elango Kannan , Ambhore NS, Mulukutla S, Gowthamarajan K. Drug loaded liposomes of mesalamine incorporated into disease responsive microgels (Micro) for treating allergic asthma: An approach using smart drug delivery system. *European Respiratory Journal*. 2015; 46 (59); [IF: 16.67]
2. Pindiprolu SS, Praveen TK, Chintamaneni P. Death Receptor-5 Targeted Delivery of Gamma-Secretase Inhibitor for Simultaneous Targeting of Cancer Cells and Cancer Stem Cells in Triple Negative Breast Cancer. *Molecular Therapy*. 2019; 27(4); 134-135. [IF: 11.45]
3. Pindiprolu SS, Praveen TK, Chintamaneni PK. Lipid bioconjugated nanocarriers for potentiating chemotherapeutic efficacy and preventing metastasis in triple negative breast cancer. *European Journal of Cancer*. 2018; 92(3); S123-S123. [IF: 9.16]
4. Sola P, Praveen TK, Chintamaneni PK, Pindiprolu SK, Kumari M. Novel drug delivery systems of β 2 adrenoreceptor agonists to suppress SNCA gene expression and mitochondrial oxidative stress in Parkinson's disease management. *Expert Opinion on Drug Delivery*. 2020; 17(8); 1119-32. [IF: 6.64]
5. Justin A, Divakar S, Ramanathan M. Cerebral ischemia induced inflammatory response and altered glutaminergic function mediated through brain AT1 and not AT2 receptor. *Biomedicine & Pharmacotherapy*. 2018; 102; 947-58. [IF: 6.52]
6. Chipurupalli S, Elango Kannan , Tergaonkar V, D'Andrea R, Robinson N. Hypoxia induced ER stress response as an adaptive mechanism in cancer. *International journal of molecular sciences*. 2019; 20(3); 01-17. [IF: 5.92]
7. Pindiprolu SK, Praveen TK,, Chintamaneni PK, Karri VV. Nanocarrier based approaches for targeting breast cancer stem cells. *Artificial cells, nanomedicine, and biotechnology*. 2018; 46(5); 885-98. [IF: 5.67]
8. Lakkappa N, Praveen TK,, Pandareesh MD, Bharath MM, Hammock BD, Hwang SH. PTUPB, dual inhibitor of soluble epoxide hydrolase and cyclooxygenase-2, mitigates rotenone induced neurotoxicity. *Journal of Neurochemistry*. 2017; 142; 222-222. [IF: 5.37]
9. SS Pindiprolu SK, Praveen TK,, Ghanta VR, Chintamaneni PK. Phenyl boronic acid-modified lipid nanocarriers of niclosamide for targeting triple-negative breast cancer. *Nanomedicine*. 2020; 15(16); 1551-65. [IF: 5.30]
10. Justin A, Ashwini P, Jose JA, Jeyarani V, Dhanabal SP, Manisha C, Mandal SP, Bhavimani G, Prabitha P, Kumar BP. Two Rationally Identified Novel Glitazones Reversed the Behavioral Dysfunctions and Exhibited Neuroprotection Through Ameliorating Brain Cytokines and Oxy-Radicals in ICV-LPS Neuroinflammatory Rat Model. *Frontiers in Neuroscience*. 2020; 14; 01-16. [IF: 4.67]
11. Magham SV, Praveen TK, Shaji N, Mani L, Balasubramanian S. Cannabinoid receptor 2 selective agonists and Alzheimer's disease: An insight into the therapeutic potentials. *Journal of Neuroscience Research*. 2021; 00:1-18. [IF: 4.164]
12. Lakkappa N, Praveen TK,, Yamjala K, Hwang SH, Hammock BD, Babu B. Evaluation of antiparkinson activity of PTUPB by measuring dopamine and its metabolites in *Drosophila melanogaster*: LC-MS/MS method development. *Journal of pharmaceutical and biomedical analysis*. 2018; 149(1); 457-64. [IF: 3.93]
13. Kiran AR, Kumari GK, Praveen TK, Carbon nanotubes in drug delivery: Focus on anticancer therapies. *Journal of Drug Delivery Science and Technology*. 2020; 101892. [IF: 3.98]

14. Kumar BP, Kumar AP, Jose JA, Yuvaraj S, Sandhya C, Jeyarani V, Manisha C, Banerjee S, Justin A. Minutes of PPAR- γ Agonism and Neuroprotection. *Neurochemistry international*. 2020; 140; 104814. [IF: 3.92]
15. Saravanan J, Praveen TK. Role of microgliosis, oxidative stress and associated neuroinflammation in the pathogenesis of Parkinson's disease: The therapeutic role of Nrf2 activators. *Neurochemistry International*. 2021; 145; 105014. [IF: 3.92]
16. Justin A, Mandal S, Prabitha P, Dhivya S, Yuvaraj S, Kabadi P, Sekhar SJ, Sandhya CH, Wadhvani AD, Divakar S, Bharathi JJ, Durai P, Prashantha Kumar BR. Rational Design, Synthesis, and In Vitro Neuroprotective Evaluation of Novel Glitazones for PGC-1 α Activation via PPAR- γ : a New Therapeutic Strategy for Neurodegenerative Disorders. *Neurotoxicity Research*. 2020;37; 508–524. [IF: 3.91]
17. Ayush Shrestha, Praveen T K, Pooja Thomas, Bruce D. Hammock and Sung H. Hwang. Soluble epoxide hydrolase inhibitor, t-TUCB, protects against myocardial ischaemic injury in rats. *Journal of Pharmacy and Pharmacology*. 2014; 66(9); 1251-8. [IF: 3.76]
18. Kumari M, Praveen TK, Sola P. Targeted Drug Therapy to Overcome Chemoresistance in Triple-negative Breast Cancer. *Current cancer drug targets*. 2020; 20(8); 559-72. [IF: 3.42]
19. Ghanta VR, Madala N, Pasula A, Pindiprolu SK, Battula KS, Praveen TK, Raman B. Novel dermacozine-1-carboxamides as promising anticancer agents with tubulin polymerization inhibitory activity. *RSC advances*. 2019; 9(32); 18670-7. [IF: 3.36]
20. Chintamaneni PK, Praveen TK, Pindiprolu SK. Polysorbate-80 surface modified nano-stearylamine BQCA conjugate for the management of Alzheimer's disease. *RSC Advances*. 2021; 11(10); 5325-34. [IF: 3.36]
21. Praveen TK, VVV RK, Vishwanath K, Narendran ST, Babu B, Krishnaveni N. Development and validation of a sensitive LC-MS/MS method for pioglitazone: application towards pharmacokinetic and tissue distribution study in rats. *RSC Advances*. 2021; 11(19); 11437-43. [IF: 3.36]
22. Divakar S, Muthu S, Kotha S, Siddamsetty RS, Andavar S, Jayaraman S. Syringaresinol as a novel androgen receptor antagonist against wild and mutant androgen receptors for the treatment of castration-resistant prostate cancer: molecular docking, in-vitro and molecular dynamics study. *Journal of Biomolecular Structure and Dynamics*. 2021; 39(2); 621-34. [IF: 3.31]
23. Sulaiman C T, Deepak M, Praveen T K, Lijini K R, Anandan E M, Salman M, Indira Balachandran. Purification of Bhallathaka (*Semecarpus anacardium* L.f.) enhanced anti-cancer activity. *Regul Toxicol Pharmacol*. 2021; 20; 104898. [IF: 3.27]
24. Sai Kiran S.S. Pindiprolu, Pavan Kumar Chintamaneni, Praveen T K & Kinnera Ratna Sree Ganapathineedi. Formulation-optimization of solid lipid nanocarrier system of STAT3 inhibitor to improve its activity in triple negative breast cancer cells. *Drug Development and Industrial Pharmacy*, 2019;45(2); 304-313. [IF: 3.22]
25. Sai Kiran S. S. Pindiprolu, Praveen T K, Pavan Kumar Chintamaneni. Pharmacological targets of breast cancer stem cells: A review. *Naunyn-Schmiedeberg's Archives of Pharmacology*. 2018;391(5); 463-479. [IF: 3.0]

CONSULTANCY UNDERTAKEN

Pharmacological Screening

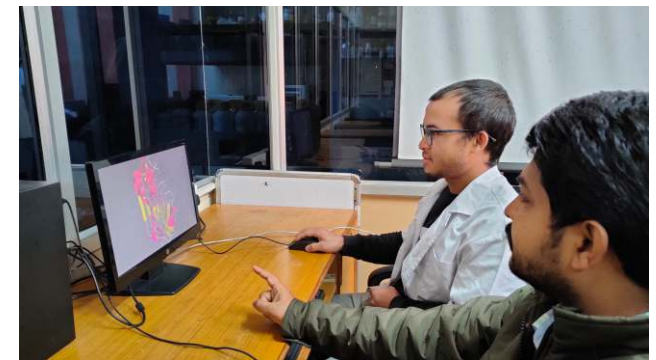
- Cancer
- Cardiovascular diseases
- Neurological disorders– Insomnia, Depression, Parkinson's disease, Dementia, Epilepsy
- Metabolic Disorders- Diabetes, Ulcer, GI disorders, Obesity
- Wound healing
- Bioassays

Drug Safety Evaluation

- Acute oral toxicity
- Acute dermal toxicity
- Acute Dermal Irritation and Corrosion study
- Acute Eye Irritation & Corrosion study
- Single / Repeated Dose (Oral) Toxicity Study
- Geno toxicity study

Drug Pharmacokinetics

- Plasma Protein Binding Studies, Tissue distribution, Excretion, Drug Interaction, and Toxicokinetics.



₹. 129.44 L Worth Industry/Institutional Projects (Completed & Ongoing)

EXPERTISE AND SERVICES WE OFFER..

- Drug safety evaluation : Acute & Chronic Toxicity testing (Single dose/Repeated dose), Skin / Eye irritation studies, Geno toxicity studies.
- Pharmacological screening : Cancer (TNBC), Neurological disorders (Alzheimer's & Parkinson's disease, Cerebral Ischemia, Depression, Cognition), Cardiovascular diseases, Metabolic disorders, Dermatological studies, Drosophila research.
- Drug Pharmacokinetics, Plasma protein binding, Tissue distribution, Drug interaction studies & Toxicokinetic analysis.



For Communication

Dr Praveen T. K.

Professor & Head,

Centre for Preclinical Research

Dept. of Pharmacology

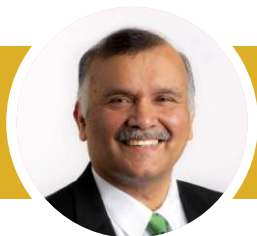
☎ +91-99525 93850

✉ ootypharmacology@jssuni.edu.in





Centre For Analytical Research & Services



S. Suresh Madhavan, MBA, PhD, FAPhA

Dean and Professor, System College of Pharmacy,
University of North Texas Health Science Center

I am delighted to hear about the upcoming publication of a research brochure by JSS College of Pharmacy, Ooty, to exhibit the college's research strengths of its various de-partments. The research brochure will be an excellent publication to share the leaps the college has made in advancing knowledge & the accomplishments of its students and scientists to a wide array of constituents. It will be a shining example of what lead-ership passion, hard work, and team work can do.

Indeed, as an adjunct faculty member, over the years I have been very proud of the college and its accomplishments that has gained it very high national & international recognition. I can never forget the few days in 2018 that I spent visiting the College in Ooty and Dr. Dhanabal and his leadership teams and doctoral students. The caliber of the program, the research productivity, and the high quality of facilities available were impressive. Indeed, as a top 10 college of pharmacy in India, JSS College of Pharmacy, Ooty lives up to its reputation and national responsibility to produce tomorrow's health care practitioners and discoverers of new therapies for the people of India. There is no doubt that these past 18 months has been challenging for the people of India and the rest of the world. It is new innovations like the rapidly developed vaccinations for COVID 19 that are helping to mitigate this pandemic.

Bringing out this research brochure during these difficult times will put a spotlight on the importance of research in society. It will share valuable opportunities for collabora-tions on top notch research and showcase innovative research that are utilizing revolu-tionary technologies. I hope that this research brochure will stimulate exponential growth of the College's research and collaborations with various public and private partners. It will be a great example for other colleges of pharmacy to emulate and be a benchmark for excellence.

I extend my heartfelt congratulations to Dr. Dhanabal and his team and the faculty, staff, and students of JSS College of Pharmacy, Ooty, India.

Manas Mandal, PhD

Fulbright Specialist
Professor, College of Pharmacy
Roseman University of Health Sciences, Henderson NV



It is a pleasure for me to write about my experiences with JSS AHER, College of Pharmacy Ooty. I am a Fulbright Specialist & Professor of Pharmaceutical Sciences at the Roseman University of Health Sciences, College of Pharmacy with expertise in immunology and vaccine research. I've visited JSS Mysuru and Ooty campuses in 2019 January as an Adjunct Faculty of JSS AHER.

During my week-long visit, I've met with the faculty, administrators, students, and research fellows of the institute. I've given seminars, attended research update meeting and extensively toured the campus facilities including research labs.

My collaboration with Ooty campus faculty continued through the pandemic. During this period, I've given webinars on COVID-19 infection and vaccine devel-opment approaches and collaborated on Government of India Drug Discovery initiative on COVID-19. Very recently, I had a very fruitful collaboration with Prof. Ashish Wadhvani, on a book chapter entitled 'Role of Nanotechnology in HIV Di-agnosis and Prognosis'.

Overall, my experiences with JSS is wonderful professionally and excellent intel-lectually! JSS College of Pharmacy Ooty campus faculty and students are uniquely meritorious, vibrant, and very capable researchers.

They are eager to engage in research collaboration nationally and internationally. They are also very passionate about their institution and it's standing as a leading research powerhouse in the region. I am quite confident that they will continue with their academic and research success. I wish JSS College of Pharmacy the best in its endeavor to expand research capacity and collaboration.





DEPARTMENT OF PHARMACEUTICAL ANALYSIS (DST-FIST SPONSORED) CENTRE FOR ANALYTICAL RESEARCH & SERVICES

Preamble

The Department of Pharmaceutical Analysis was established in the year 1994 to strengthen knowledge and provide research support in terms of analytical techniques and spectral studies using high end analytical instruments. The M. Pharm-Pharmaceutical Analysis was started in the year 1994 and the M. Pharm - Pharmaceutical Quality Assurance was started in 2010. The courses were designed to provide industry ready professionals for the analysis and quality control of pharmaceuticals with appropriate skill set, knowledge base and practical expertise. The department also offers value added courses viz., Diploma in Pharmaceutical Quality Assurance and Certificate Course in Quality Assurance. The department is also recognized for the conduct of PhD research program.

Research Focus / Thrust Areas

Development and Validation of Stability Indicating Analytical Methods for the Analysis/Quality Control of Pharmaceuticals & Chiral Drugs

Development and Validation of Bio Analytical Methods for the Analysis of Pharmaceuticals/Chiral Drugs In Biological Samples

Performance of Pharmacokinetic Studies, BA/BE Studies for Pharmaceutical Formulations.

Development and Validation of Stability Indicating Analytical Methods for the Analysis/quality Control of Herbal Products, Food Constituents & Contaminants

Nutrikinetic Assessment of Functional Foods

INVESTIGATOR'S PROFILE



Impurity profiling of Pharmaceuticals and Nutrikinetic assessment of Functional foods

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Method development & Validation for Pharmaceuticals/ Herbal products/ Food/ Chiral formulations

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Impurity profiling and Genotoxicity studies for Pharmaceuticals

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Bio analytical & Analytical method development for Pharmaceuticals

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Stability indicating Analytical method development & Validation for Pharmaceuticals

Dr. B. Babu

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UNIQUE AND ADVANCED RESEARCH FACILITIES

- FT - IR Spectrophotometer 8400S (Shimadzu FT - IR)
- UV - Visible Spectrophotometer 1700 (Shimadzu UV)
- Atomic Absorption Spectrophotometer (AAS) 6300 (Shimadzu)
- Optimum Performance Laminar Chromatography (OPLC) (Chromline)
- High Performance Liquid Chromatography (HPLC) with auto sampling unit and UV Detector –LC20AHT (Shimadzu)
- Prominence High Performance Liquid Chromatography (HPLC) with UV Detector – LC20AT (Shimadzu)
- Preparative High Performance Liquid Chromatography with Refractive Index & PDA Detector (Waters)
- High Performance Liquid Chromatography (HPLC) with auto sampling unit and UV Detector (Waters)
- Liquid Chromatography integrated with Mass Spectrometer (LC/MS) - 2020 (Shimadzu)
- Liquid Chromatography integrated with tandem Mass Spectrometer (LC/MS/MS – Triple Quadrupole) - 8030 (Shimadzu)



COLLABORATIONS WITH INDUSTRIES, INTERNATIONAL & NATIONAL UNIVERSITIES

MAJOR CLIENTS



TECHNOLOGY TRANSFER AVAILABLE

- Patent No: 254676, Date of award : 20.02.2012, Dr. S. N. Meyyanathan, Perumal Nirmal Anbunathan and Dr. B. Suresh. Process for Synthesis of Quinazolinones as Anti Mycobacterial Agents.
- Patent Application No: 2512/CHE/2011. Published:22.07.2011, Mr. M. R. Jeyaprakash. A Composition for treating Swine – FLU and a process for formulating the same.

External Funded Projects (Completed)

PI : Dr. S. Ravishankar Title : Modernization and Removal of Obsolescence Grant : 5.0 Lakhs	Agency : AICTE, New Delhi Period : 1996 – 1997
PI : Dr. M. Vasudevan Title : Characterization, standardization and finger printing of NIM- 76 Grant : 2.0 Lakhs	Agency : DRDO, New Delhi - Defence Institute of Physiology and Allied Sciences Period : 1996 – 1997
PI : Dr. M. Vasudevan Title : Removal of obnoxious odour from NIM - 76 Grant : 2.0 Lakhs	Agency : DRDO, New Delhi - Defence Institute of Physiology and Allied Sciences Period : 1996 – 1997
PI : Dr. S. Ravishankar Title : Identification of Stereoisomeric Impurities in marketed formulations by HPLC Grant : 3.0 Lakhs	Agency : AICTE, New Delhi - Career Award for Young teachers Period : 1999 – 2000
PI : Dr. M. Vasudevan Title : Validation and testing efficacy of approved labs engaged in testing of Drugs & Pharmaceuticals Grant : 10.0 Lakhs	Agency : DST - New Delhi Period : 1996 – 1997
PI : Dr. S. N. Meyyanathan Title : Analysis of food constituents and contaminants by LC- MS and Atomic Absorption Spectroscopy Grant : 15.99 Lakhs	Agency : AICTE- Research Promotion Scheme (RPS), New Delhi Period : 2007 – 2010
PI : Dr. S. N. Meyyanathan Title : Development and validation of chiral separation of some enantiomeric drugs by OPLC, HPLC and LC- MS methods Grant : 20.0 Lakhs	Agency : AICTE- Research Promotion Scheme (RPS), New Delhi Period : 2009 – 2012

External Funded Projects (Ongoing)

<p>PI : Dr. N. Krishnaveni Title : Isolation, Characterization, Synthesis and Genotoxic study of degraded products from anti-retrovirals Grant : 3.52 Lakhs</p>	<p>Agency : DST, New Delhi, DST – WOS A (Women Scientist Fellowship) Period : 2018 – 2021</p>
<p>PI : Dr. N. Krishnaveni Title : DST- Fund for Improvement of S & T infrastructure in Universities & Higher educational institutions Grant : 56.40 Lakhs</p>	<p>Agency : DST, New Delhi Period : 2020 – 2025</p>
<p>PI : Dr. N. Krishnaveni Title : Health in hands on board – An exhibition cum workshop for popularizing pharmaceutical sciences and its impact on the health among school children Grant : 13.32 Lakhs</p>	<p>Agency : NCSTC, DST , New Delhi Period : 2020 – 2023</p>
<p>PI : Dr. N. Krishnaveni Title : Nutrikinetic assessment of Iron: an essential micronutrient isolated from fortified and biofortified Indian based wheat cultivars Grant : 34.08 Lakhs</p>	<p>Agency : ICMR – ADHOC, New Delhi Period : 2021 – 2024</p>
<p>PI : Dr. B. Babu Title : A stability-indicating LC-MS/MS method for anti-cancer drugs through quality by design approach: Identification, characterization, and genotoxicity evaluation of degradation products Grant : 21.0 Lakhs</p>	<p>Agency : ICMR – ADHOC, New Delhi Period : 2021– 2024</p>



Total No. of PhD

Awarded : 16
Ongoing : 19

PhD Fellowships Awarded by Govt. Agencies

- Indian Council of Medical Research (ICMR) ◀
- All India Council for Technical Education (AICTE-NDF) ◀
- DST-Women Scientist Scheme-A (DST WOS-A) ◀

Select Publications (Top 25 ; Last 10 Years)

- Narenderan ST, Meyyanathan SN, Karri, V V S R, Babu B, Chintamaneni P. Multivariate response surface methodology assisted modified QuEChERS extraction method for the evaluation of organophosphate pesticides in fruits and vegetables cultivated in Nilgiris, South India. *Food Chemistry*. 2019; 300. [IF: 6.3].
- Narenderan ST, Meyyanathan SN, Karri V V S R. Experimental design in pesticide extraction methods: A Review. *Food Chemistry*. 2019; 289: 384-395; [IF: 6.3].
- Yamjala K, Meyyanathan SN, Ramiseti NR. Methods for the analysis of azo dyes employed in food industry - A Review. *Food Chemistry*. 2016; 192: 813-824 [IF: 6.3].
- Narenderan ST, Meyyanathan SN, Babu, B. Review of pesticide residue analysis in fruits and vegetables. Pre-treatment, extraction and detection techniques *Food Research International*. 2020:133 [IF : 4.9].
- Dubala A, Nagarajan JSK, Vimal CS, George R. Simultaneous quantification of cefpodoxime proxetil and clavulanic acid in human plasma by LC-MS using solid phase extraction with application to pharmacokinetic studies. *Journal of Chromatography B*. 2013: 921-922; [IF: 3.0].
- Mannemala SS, Nagarajan JSK. Development and validation of a generic liquid chromatographic method for the simultaneous determination of five commonly used antimalarial drugs: Application to pharmaceutical formulations and human plasma. *Journal of Separation Science*. 2015: 38 (9); 1521-1528 [IF: 2.8].
- Nagarajan JSK, Vimal CS, George R, Dubala A. Simultaneous pharmacokinetic assessment of cefadroxil and clavulanic acid in human plasma by LC-MS and its application to bioequivalence studies. *Journal of Pharmaceutical Analysis*. 2013: 3 (4); 285-291; [IF: 2.6].
- Karthik Rajendran, Bhadram Kalyan Chekraverthy, Rajendran Sankham Devendran, R Jasmin Sajini, Krishnaveni Nagappan. Simultaneous quantification of Oxcarbazepine and its active metabolite in spiked human plasma using UPLC- MS/MS. *Bioanalysis*. 2021: 13(16). [IF- 2.6]
- Mannemala SS, Nagarajan JSK. Development and validation of a HPLC-PDA bio analytical method for the simultaneous estimation of Aliskiren and Amlodipine in human plasma. *Biomedical Chromatography*. 2015: 29 (3): 346-352; [IF: 1.7]
- Gopinath R, Narenderan ST, Kumar M, Babu B. A sensitive liquid chromatography–tandem mass spectrometry method for quantitative bio analysis of fingolimod in human blood: Application to pharmacokinetic study. *Biomedical Chromatography*. 2020: 34 (6); [IF: 1.7].
- Gopinath R, Narenderan ST, Kumar M, Babu, B. Development and validation of a liquid chromatography-tandem mass spectrometric method for the determination of lenalidomide in human plasma and its application on bioequivalence studies. *Journal of Analytical Science and Technology*. 2019: 10 (33):1-8 [IF: 1.6].
- Karthik Y, Babu B, Meyyanathan SN, Awari VP, Krishnaveni N. A novel reverse phase high performance liquid chromatography (RP-HPLC-UV) method for the estimation of alosetron HCl and Its validation. *Acta Chromatographica*. 2015: 27 (2); 321-330 [IF: 1.4].
- Bratty MA, Thangavel N, Peraman R, Kumar V, Reddy P, Nagappan Krishnaveni, Hazmi, H.A. HPLC-DAD Method for Investigating Pantoprazole for its Stress Dependent Degradation by Photolysis and Oxidation. *Acta Chromatographica*. 2020: 32 (4); 247-255; [IF: 1.4].

14. Dubala A, Nagarajan JSK, Vimal CS, George R. Simultaneous liquid chromatography-mass spectrometry quantification of cefixime and clavulanic acid in human plasma. *Journal of Chromatographic Science*. 2015; 53 (5) ;694-701 [IF: 1.3].
15. Rupika Sunidhi, C, Jeyaprakash MR, Rajeshkumar R. Sonic Hedgehog gene as a potential target for the early prophylactic detection of cancer. *Medical Hypotheses*.2020: 137 [IF: 1.375].
16. Rinchi Bora, M.R. Jeyaprakash and S. Jubie. Effect of Anti-Retroviral Drug Impurity/Related Substances on The CCR5 And/Or CXCR4 Receptors Binding Sites to Revise Resistance Mechanisms in the Clinical Implications Using Molecular Docking Studies. *Current Drug Discovery Technologies*. [IF: 1.3].
17. Narendran ST, Meyyanathan SN. Sample Treatment and Determination of Pesticide Residues in Potato Matrices: A Review. *Potato Research*.2019: 62 (1); 47-67; [IF: 1.28].
18. Kapoor B, Gupta R, Gulati M, Singh SK, Khatik GL, Chawla M., Nagappan Krishnaveni, Khursheed R, Kumar R. High-Performance Liquid Chromatography and Liquid Chromatography/Mass Spectrometry Studies on Stress Degradation Behavior of Sulfapyridine and Development of a Validated, Specific, Stability-Indicating HPLC Assay Method. *Assay and Drug Development Technologies*. 2020: 18 (3); 119-133; [IF: 1.18].
19. Narendran ST, Babu B, Gokul T, Meyyanathan SN. A Novel simultaneous estimation of sofosbuvir and Velpatasvir in human plasma by liquid chromatography tandem-mass spectrometry after protein precipitation method *Current Pharmaceutical Analysis*. 2019:15 (7):710-715 [IF: 0.88].
20. Srinandan V, Nagappan Krishnaveni, Patel S, Yamjala K, Byran G, Babu B. Simultaneous quantification of pantoprazole and levosulpiride in spiked human plasma using high performance liquid chromatography tandem mass spectrometry. *Current Pharmaceutical Analysis*.2019: 15 (1) :17-23 [IF: 0.88].
21. Mahesh Reddy J, Jeyaprakash MR, Madhuri K, Meyyanathan SN, Elango K. A sensitive RP-HPLC method for simultaneous estimation of diethylcarbamazine and levocetirizine in tablet formulation. *Indian Journal of Pharmaceutical Sciences*. 2011:73 (3); 320-323; [IF: 0.7].
22. Narendran ST, Meyyanathan SN, Babu B, Karthik Y. A novel validated analytical method for the estimation of midodrine hydrochloride in pharmaceutical formulation by LC-MS/MS. *Indian Drugs*. 2020; 57 (2); 41-44 [IF: 0.13]
23. Ashok P, Narendran ST, Meyyanathan SN, Babu B, Jawahar N. Development and validation of a simple bio-analytical HPLC-UV method for estimation of irbesartan in human plasma. *International Journal of Research in Pharmaceutical Sciences*. 2020; 11 (3), 3846-3849.
24. Reddy GS, Bera A, Basak M, Krishnaveni N, Peraman R. A quantitative, sensitive and rapid validated analytical RP-HPLC method for the estimation of dapagli-flozin in bulk and pharmaceutical dosage formulations. *International Journal of Research in Pharmaceutical Sciences*.2020; 11 (2); 2543-2548.
25. Sangamithra R, Narendran ST, Meyyanathan SN, Sharma P, Sanjay MS, Babu B, Kalaivani M. A sensitive analytical liquid chromatography-tandem mass spectrometry method for the estimation of Topiramate in bulk and pharmaceutical formulation. *Journal of Applied Pharmaceutical Science*. 2020; 10 (3); 109-112

CONSULTANCY UNDERTAKEN

- Development and Validation of Stability Indicating Analytical Methods for the Analysis/Quality Control of Pharmaceuticals/ Chiral Drugs/ Herbal Products/ Food Constituent & Contaminants using various Sophisticated Analytical Instruments and Qbd Approach Viz., HPLC, LC-MS and LC-MS/MS.
- Development and Validation of Bioanalytical Methods for the Analysis of Pharmaceuticals/ Chiral Drugs in Biological Samples using various sophisticated Analytical Instruments Viz., HPLC, LC-MS and LC-MS/MS.
- Stress Degradation Studies and Impurity Profiling of Api's and Pharmaceutical Formulations.
- Performance of Pharmacokinetic Studies, BA/BE Studies for Pharmaceutical Formulations.
- Nutrikinetic Assessment of Functional Foods

₹ 200 Lakhs worth Industry / Institutional Projects (Completed & Ongoing)



EXPERTISE AND SERVICES WE OFFER..

- **Monograph analysis** - Monograph analysis of pharmaceutical formulations/bulk drugs as per IP, BP, and USP Standards. Analysis of cosmetics as per BIS Standards

- **Analytical Services** - Analytical/Bioanalytical method development and validation for pharmaceuticals/herbal phytoconstituents/Food phytoconstituents including impurity profiling utilizing HPLC, LC-MS, and LC-MS/MS. Heavy Metal Analysis using Flame AAS

- **Pharmacokinetic Studies** - BA/BE studies in preclinical and human volunteers



For Communication

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Centre For Molecular Biology & Drug Screening



Dr. Nirmal Robinson

Head, Cellular Stress and Immune Response Lab
Centre for Cancer Biology University of South Australia
Adelaide, Australia

Having experienced academic research in 4 different continents, I can without hesitation vouch for the research contribution from JSSCP. Decades ago, when pharmacy colleges in India were focused on traditional passive teaching, JSSCP had leapt forward with research-based teaching, which is critical for nurturing the next generation of pharmacists.

Little I knew 28 years ago that JSSCP would craft me into a scientist I am today. JSSCP is not a physical structure but a conglomeration of adept and committed mentors with principles of holistic development. "You reap what you sow" plenty a seed such as myself have been sown in JSSCP and I represent one of the many proud JSSCPians who reap the benefits today. JSSCP alumni have disseminated worldwide yet we stand united under one monumental brand - JSSCP.

Academic research in JSSCP has not only developed excellent pharmacists and researchers, but it has also aided in the development of several potential drug candidates and in understanding the fundamentals of diseases for which we can be proud of. Thanks to the astute and visionary leaders of JSSCP for their leadership and guidance.

I am very pleased and proud to be associated with JSSCP as a visiting faculty, to collaborate with the JSSCP researchers and also in mentoring students. I wish that the winds continuously blow from JSSCP and sweep across the globe to spread knowledge, goodwill and peace.



Dr. Suresh K. Mohankumar

Associate Professor, Pharmacy-Pharmacology
Institute of Life Sciences 2, Swansea University, Singleton Park
Swansea, Wales, United Kingdom

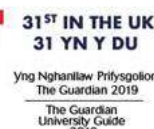


On my first journey to Ooty to join JSS College of Pharmacy, I wasn't sure that driving uphill symbolizes the promised progressions in both career and life. Well, it was indeed a life-changing drive, reminiscing it!

One of the greatest strengths of JSSCPO is the ample opportunities and exposure for the students on the industry standards and professional competencies. Likewise, the modern research facilities made available/accessible to young research aspirants at various stages of pharmacy education indeed kindled and supported several JSSCPO graduates to flourish, pin me one among them!

I firmly believe that JSSCPO will continue to strive in pharmaceutical research and innovation and will surely be a life-changing experience for many. My best wishes to all

Proud to be a JSSCPO alumnus!





DEPARTMENT OF PHARMACEUTICAL BIOTECHNOLOGY CENTRE FOR MOLECULAR BIOLOGY & DRUG SCREENING

Preamble

JSS College of Pharmacy, Ooty, became the first in the country to start a Department of Pharmaceutical Biotechnology in 1994. The department has maintained a high standard of education and research in a wide range of biotechnology fields, providing pharmacy students with sufficient theoretical and practical knowledge. The department has experienced a steady degree of research operation that has been recognized at both the national and international levels. The department also provides consulting and extension services to various industries through Drug Testing Laboratory (DTL), which is recognized by the Tamil Nadu and Indian governments for microbial testing of pharmaceutical preparations.

Research Focus / Thrust Areas

Antimicrobial Resistance

Cancer Biology

Infectious Diseases Biology

Probiotic Screening

Gene Expression Studies

Bioinformatics & Bioprocess
Engineering

INVESTIGATOR'S PROFILE



Oxidative stress and Mitochondrial Biology
Bioinformatics and *In silico* Prediction
Secondary metabolite gene clusters

Dr. Rajeshkumar Raman

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Cancer Biology and Intrinsic pathway mechanisms
Biofilms and microbial resistance
Gene expression Profiling

Dr. Vasanth Raj P.

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Strain improvement and medium stabilization
Hepatoprotective screening
Signal Transduction & Protein pathway analysis

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Dr. Ashish Wadhvani
Deputed as Professor & Head - Faculty of
Health Sciences, JSS AHER Mauritius





Unique and Advanced Research Facilities

- Luminex Guava muse cell analyzer
- Inverted tissue culture Microscope
- HUND Fluorescence microscope
- Class A \ B3 Type II biosafety Cabinet
- Gel Documentation System
- ELISA Reader
- Eppendorf Thermocycler
- Autoclave Units for Sterilization
- Molecular Biology Setup
- CO₂ Incubator



COLLABORATIONS WITH INDUSTRIES, INTERNATIONAL & NATIONAL UNIVERSITIES

MAJOR CLIENTS



apex



Total No. of PhD

Awarded : 19
Ongoing : 05

PhD Fellowships Awarded by Govt. Agencies

- ▶ Dept. of Science & Technology, Govt. of India.
- ▶ Indian Council of Medical Research, New Delhi.
- ▶ Council of Science & Industrial Research, New Delhi.

External Funded Projects (Completed)

PI : Dr. Samantha / Dr. Ashish Wadhvani Agency : DBT - North Eastern Region Twinning Program
 Title : An Effective Treatment Approach of T-Cell Induced Autoimmune Diabetes Through Sitagliptin- AntiCD₄ Immuno-Nano Conjugates In BALB/C Mice"
 Grant : 42.40 Lakhs Period : 2014-2017

PI : Dr. S.A. Dhanaraj Agency : AICTE - RPS
 Title : Screening and evaluation of herbal resources of Nilgiris for Antiviral potentials
 Grant : 10.50 Lakhs Period : 2006-2008

External Funded Projects (Ongoing)

PI : Dr. Ashish Wadhvani Agency : AICTE - MODROBS
 Title : Modernization of Mammalian Cell Culture Laboratory in Pharmaceutical Biotechnology
 Grant : 15.00 Lakhs Period : 2019-2021

Other Notable Grants

Agency : AICTE - MODROBS, Grant : 13.52 Lakhs Period : 2002-2004

Agency : DBT- R&D, Grant : 22.38 Lakhs Period : 2001-2004

Agency : AICTE – R&D Grant : 7.0 Lakhs Period : 1998-2000



Select Publications (Top 25 ; Last 10 Years)

- Jana B, Wadhvani D. A. Microneedle - a closed loop hypoxia sensitive intradermal insulin delivery system for the management of diabetes. *Diabetes Technology and Therapeutics*. 2018 :20; A55 [IF: 6.11]
- Kurokawa M, Wadhvani A, Kai H, Hidaka M, Yoshida H, Sugita C, Watanabe W, Matsuno K, Hagiwara A. Activation of Cellular Immunity in Herpes Simplex Virus Type 1-Infected Mice by the Oral Administration of Aqueous Extract of *Moringa oleifera* Lam. Leaves *Phytotherapy Research*. 2016: 30;5 797-804 [IF:5.87]
- K. Naveen Kumar, L.Vijayalakshmi, Pyung Hwang, Ashish D. Wadhvani, Jungwook Choia, Bright red-luminescence of Eu³⁺lon-activated La10W22O81 microphosphors for noncytotoxic latent fingerprint imaging. *Journal of Alloys and Compounds*, 840, 5 2020; 155589: 1-10 [IF: 5.31]
- Baishali A. Jana, Ujwala Shinde, Ashish Wadhvani, Preparation of enzyme based polymeric biomimetic nanoparticle for the controlled release of insulin. *Sensing and Bio-Sensing Research*, 2020; 28: 100342: 1-6 [IF 4.41]
- Kumar R, Khurshed R, Kumar R, Awasthi A, Sharma N, Khurana S, Kapoor B., Khurana N, Singh S.K, Gowthamarajan K., Wadhvani A. Self-nanoemulsifying drug delivery system of fisetin: Formulation, optimization, characterization and cytotoxicity assessment. *Journal of Drug Delivery Science and Technology* 2019: 54 [IF: 3.98]
- Saravanan M, Senthilkumar P, Chinnadurai V, Murugesan Sakthivel K, Rajeshkumar R, Pugazhendhi A. Antiangiogenic, anti-inflammatory and their antioxidant activities of *Turnera subulata* Sm. Turneraceae, *Process Biochemistry* 2020 : 67; 789-792 [IF:3.75]
- Vijayan P, Prashanth H.C, Vijayaraj P, Dhanaraj S.A, Badami S, Suresh B. Hepatoprotective Effect of the Total Alkaloid Fraction of *Solanum pseudocapsicum* Leaves. *Pharmaceutical Biology* 2003; 41:6 443-448 [IF: 3.5]
- Vijayan P, Kumar S.V, Dhanaraj S.A, Badami S, Suresh B. *In vitro* cytotoxicity and anti-tumor properties of the total alkaloid fraction of unripe fruits of *Solanum pseudocapsicum*. *Pharmaceutical Biology* 2002 :40; 6 456-460 [IF: 3.5]
- Baishali A Jana, Ujwala Shinde, Ashish Wadhvani Synthetic enzyme-based nanoparticles act as smart catalyst for glucose responsive release of insulin. *Journal of Biotechnology* 324 [2020] 1-6 [IF:3.16]
- Ashish Wadhvani, Selvam P, Viral Patel, Masahiko Kurokawa, Vijayan P. *In vitro* and *in vivo* effect of phytosterols isolated from *Sida Cordifolia* L. extracts against HSV-1 infection. *BMC Infectious Diseases* 2020, 20[Suppl 1]:324; 67-70 [IF:3.09]
- Shanmugasundaram S, Manjunatha N., Vijayan R, Khatwal R, Samanta M. Determination and estimation of pharmacokinetic profile of caffeine in form of extract of green tea leaves and its analogy with synthetic form. *Indian Journal of Pharmaceutical Sciences* 2011:73D6, 649-655 [IF:2.99]
- Khatwal R.B, Dubala A, Kosaraju J, Chinni S, Narayanappa M, Mulukutla S, Muthureddy Nataraj S.K, Samanta M.K. Pharmacokinetics and tissue distribution of a M1 muscarinic acetylcholine receptor positive allosteric potentiator, benzyl quinolone carboxylic acid. *Analytical Methods* 2014:6;82672-2678 [IF:2.89]

13. Chandrashekhar, H. Raghu, Venkatesh P, Ponnusankar S, Vijayan P, Antioxidant activity of *Hypericum hookerianum* Wight and Arn. Natural Product Research 2009;23;13 1240-1251 [IF:2.86]
14. Hariharapura R.C, Mahal H.S, Srinivasan R., Jagani H, Vijayan P. A pulseradiolysis study of hyperoside isolated from *Hypericum mysorens*. Radiation Physics and Chemistry 2015;107;149-159 [IF:2.85]
15. Sai M. Akilesh, Rajesh J, Dhanabal Palanisamy, Ashish Wadhvani Repositioning of Drugs to Counter COVID-19 Pandemic - An Insight. Current Pharmaceutical Biotechnology, 2021; 22 [2]: 192-199 [IF:2.83]
16. Mandal S.P, Garg A., Prabitha P, Wadhvani A.D, Adhikary L, Kumar B.R.P. Novel glitazones as PPAR α agonists: Molecular design, synthesis, glucose uptake activity and 3D QSAR studies. Chemistry Central Journal 2018;12 ;1[IF:2.49]
17. Thondawada M, Wadhvani A.D, S. Palanisamy D, Rathore H.S, Gupta R.C, Chintamaneni P.K, Samanta M.K, Dubala A, Varma S, Krishnamurthy P.T, Gowthamarajan K. An effective treatment approach of DPP-IV inhibitor encapsulated polymeric nanoparticles conjugated with anti- CD-4 mAb for type 1 diabetes. Drug Development and Industrial Pharmacy 2018;44;7 1120-1129 [IF:2.37]
18. Santhi K, Dhanaraj S.A, Joseph V, Ponnusankar S, Suresh B, A study on the preparation and anti-tumor efficacy of bovine serum albumin nano-spheres 5- fluorouracil. Drug Development and Industrial Pharmacy 2002;28 D9, .1171 [IF: 2.29]
19. Dubala A, Gupta A, Samanta M.K, Combination of monoclonal antibodies and DPP-IV inhibitors in the treatment of type1 diabetes: A plausible treatment modality. Medical Hypotheses 2014; 83 D1, 1-5 [IF:1.38]
20. Ramshankar Y.V, Vinay P, Vijayan P. Antioxidant, antimicrobial and cytotoxicity properties of the methanolic extract from *Grewia tiliaefolia* Vahl. Pharmacognosy Magazine 2008: 4 D16, 329-334 [IF: 1.31]
21. Jana B.A, Wadhvani A.D. Microneedle - Future prospect for efficient drug delivery in diabetes management. Indian Journal of Pharmacology 2019;51D1, 4-10 [IF:1.20]
22. Arisha Taj Mahaboob Batcha, Ashish Devidas Wadhvani, Gowri Subramaniam. *In vitro* antiviral activity of BanLec against herpes simplex viruses type 1 and 2. Bangladesh Journal of Pharmacology 2020: 15D1, 11-18[IF:0.93]
23. Srividya A.R, Dhanabal S.P, Jeevitha S, Vishnu Varthan V.J, Rajesh Kumar R, Relationship between antioxidant properties and chemical composition of *Abutilon indicum* Linn. Indian Journal of Pharmaceutical Sciences 2012: 74 D21, 163-167 [IF:0.72]
24. Srividya A.R, Dhanabal S.P, Misra V.K, Suja G. Antioxidant and antimicrobial activity of *Alpinia officinarum*. Indian Journal of Pharmaceutical Sciences 2010: 72 D1, 145-148 [IF:0.72]
25. Selvam P, Wadhvani A. Design and Synthesis of Biogenic Silver Nanoparticles from *Andragaphis paniculata* as Potential Anticancer Agents. Indian Journal of Pharmaceutical Sciences 2019: 81D1, 173-176 [IF:0.72]

CONSULTANCY UNDERTAKEN

- Sterility Testing of Pharmaceuticals
- Characterization and safety assessment of Probiotics
- Anti HSV1 Activity
- Endotoxin Testing
- Bacteriological Analysis of Water
- Cytotoxicity Studies & Antimicrobial Screening
- Preservative Efficacy of Liquid Orals
- *In vitro* High Throughput Screening Models on Various Diseases
- Antioxidant/ Anti-apoptotic Assays



₹ 72.41 Lakhs worth Industry / Institutional Projects (Completed & Ongoing)

EXPERTISE AND SERVICES WE OFFER..

Microbiology

- Sterility testing of pharmaceutical Preparation, & Microbial Load
- Antibiotic screening
- Bacteriological Analysis of water, IMViC test
- Endotoxin Testing
- Probiotic characterization and their safety assessment
- Designing and formulation of growth medium
- Isolation and purification of primary and secondary metabolites
- Identification of microbes

Cell Culture

- Cytotoxicity
- Antiapoptotic assays
- Antioxidant
- Antiviral Study
- Glucose uptake assay
- Internalization and Drug penetration of drugs

For Communication

Dr. Rajeshkumar Raman

Assistant Professor & Head in charge
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Bioinformatics Workflow

- Identification of alternative sources of protein raw material
- Sequence comparison and identification of species
- Differentially expressed gene findings
- Protein drug binding studies
- *In silico* Gene mapping
- Toxic gene prediction
- Identification of secondary metabolite from a Microbial Genome

Molecular Biology

- Isolation and purification of DNA
- Sequencing of DNA
- Protein identification, purification and characterization
- Detection of specific genes and gene expression studies







Centre For Patient Care & Education

ALUMNUS



Dr. S. D. Rajendran, M.Pharm., PhD
M/s. Scitus Pharma Services Private Limited,
Chennai

JSS has excellent faculty and infrastructure, dependable research capabilities and ever willing management to support us. JSS supports us in shortening our bio analytical method development time by giving expert guidance, literature support and partially conducting experiments to identify most stable bio analytical method. They also support us in clinical study design for BE studies.

STAKEHOLDER



Mr. Thanikodi Dhanasekaran
M/s. Global Chemical Company L.L.C
Abu Dhabi, United Arab Emirates

The service and technical support provided by the JSS College of Pharmacy during our interaction of getting various products analyzed for Toxicological studies is excellent. Both the staff and students are very cooperative.

We received the reports on time and the results are reliable. We will come back with our new products for the same toxicological and other studies.

Dr. Namrita Lall

Professor, Department of Plant and Soil Sciences,
University of Pretoria, Republic of South Africa



ADJUNCT
FACULTY

My involvement as an Adjunct Professor at JSS College of Pharmacy has led to several joint publications, guest lecturing, webinars, book chapters by the faculties of JSS for my books. Exposure of students to new laboratories, during exchange of students in both Universities assisted in learning new technologies they which were established in their respective Universities.

Dr. Manas RS

M/s. AVN Ayurveda Formulations Pvt. Ltd.,
Madurai, Tamil Nadu.



STAKEHOLDER

The JSS College of Pharmacy is one of the renowned pharmacy institute in India with great modern infrastructure and instrument and highly experienced teaching faculty. we have successfully completed our projects with the college with dedicated efforts of JSSCP Ooty faculty and students. Wishing them a very best wishes in all their endeavor.

Dr Srihari S., M.B.A., PhD

Director- Human Resources
M/s. Indegene Pvt Ltd., Bengaluru



STAKEHOLDER

We have always found your Ph.D. students to have an Ability to think out of the box. Their analytical capability helps in solving complex problems on the data science side which helps our global clients.

TESTIMONIALS



DEPARTMENT OF PHARMACY PRACTICE CENTRE FOR PATIENT CARE & EDUCATION

Preamble

Department of Pharmacy Practice (DPP) was established in the year 1996 to evolve the concept of clinical pharmacy through practice and education in India and to focus on the importance of the involvement of practicing pharmacists in patient care. The Centre's clinical Pharmacy Practice was established through a model center for the practice of clinical pharmacy at Govt. Medical College & Hospital (GMC&H), Ooty, 650 bedded tertiary care teaching hospital. The clinical pharmacy services to the GMC&H and other health care settings of this region achieved appreciation from the medical fraternity.

Research Focus / Thrust Areas

Geriatric Medication Safety

Health Related Quality
of Life Research

Drug & Poison Information

Community Pharmacy Research

Pharmacoeconomics &
Outcome research

Pharmacometrics &
Precision Medicine

INVESTIGATOR'S PROFILE



"Community Pharmacy Research, Social & administrative Pharmacy & Health Outcomes Research"

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"Developing CPE modules, Community Pharmacy Research, Drug related problems"

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"Observational Studies, Interventional studies & Pharmacovigilance studies"

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"Pharmacoeconomics & Outcome Research, Drug Related Problems, ADR monitoring, Patient Counseling"

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"Research Methodology & Biostatistics"

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"Pharmacokinetics/Pharmacodynamics, Pharmacogenetics, Pharmacoepidemiology, Drug Related problems"

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"Paediatric Pharmacokinetics, Therapeutic Drug monitoring of Paediatric drugs, ADR Monitoring"

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"Pharmacovigilance, Drug related problems & Health related quality of Life Research, Evidence Based medicine"

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"Pharmacoepidemiology, Health related quality of Life Research, Geriatric Medication Safety, Translation & Validation of Instruments"

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"Questionnaire Development, Diabetes Mellitus, Pharmacoeconomics"

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"Drug & Poison Information, Pharmacotherapy, Pharmacoeconomics, Pharmacovigilance"

Dr. Jeyaram Bharathi

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Dr. Khayati Moudgil

Deputed as Assistant Professor,
School of Pharmacy,
JSS AHER- Mauritius

Unique Clinical Services Provided

- IV INFUSION & ANTIBIOTIC USAGE GUIDELINES
- PATIENT COUNSELING & EDUCATION
- DRUG & POISON INFORMATION CENTER
- POINT OF CARE SERVICES
- ADR MONITORING & REPORTING
- HEMOVIGILANCE
- TREATMENT CHART REVIEW
- DRUG INTERACTION & DRP ASSESSMENT
- MEDICATION RECONCILIATION
- CONTINUING PHARMACY EDUCATION PROGRAMS
- WARD ROUND PARTICIPATION
- POISON MANAGEMENT PROTOCOL
- DRUG USAGE EVALUATION



Government Medical College & Hospital, The Nilgiris.



HOSPITAL COLLABORATIONS



Total No. of PhD

Awarded : 03
Ongoing : 14

PhD Fellowships Awarded by Govt. Agencies

- ▶ Indian Council of Medical Research (ICMR)
- ▶ Lady TATA Fellowship
- ▶ DST- Women Scientist Scheme—B (DST WOS-B)
- ▶ AICTE—Quality Improvement Programme (AICTE-QIP)

External Funded Projects (Completed)

PI : Dr S Ponnusankar

Title : Screening of Siddha Medicinal Plants for its Acetylcholinesterase and Butyryl cholinesterase inhibitory activity

Grant : 15.52 L

Agency : All India Council for Technical Education (AICTE), New Delhi

Period : 2011- 2013

PI : Dr S Ponnusankar

Title : Screening of Siddha Medicinal Plants for its Acetyl cholinesterase and Butyryl cholinesterase inhibitory activity

Grant : 17.91 Lakhs

Agency : Department of Biotechnology, New Delhi

Period : 2012 – 2014



Select Publications (Top 25 ; Last 10 Years)

1. Basutkar Roopa. A cross sectional observational study of prescription pattern of gastroprotective drugs with non-steroidal anti-inflammatory drugs in Nilgiris, India. *Pharmacotherapy*. 2014;34(6):E85 [IF:3.47]
2. Arun K.P., Meda V.S., Raj Kucherlapati V.S.P., Dubala A., Deepalakshmi M., Anand VijayaKumar P.R., Elango K., Suresh B. Pharmacokinetic drug interaction between gemfibrozil and sitagliptin in healthy Indian male volunteers. *European Journal of Clinical Pharmacology*. 2012;68(5):709-714 [IF:2.64]
3. MohsinaHyder, K Jithin Mohan, VisakhVarma , S. Ponnusankar, D. Raja. Impact of prediabetes education program on knowledge attitude and practice among prediabetic population of south India. *Preventive medicine reports*; 2021; 23: 101395 [IF: 2.5]
4. Deepalakshmi Mani., Gloria Sam., Arun Kanniyappan Parthasarathy. Stevens-Johnson Syndrome & Toxic Epidermal Necrolysis - A Case Report. *World Journal of Pharmacy and Pharmaceutical Sciences*. 2014;3(8);2054-2057
5. Elango, Hemnath; Ponnusankar, Sivasankaran; Sundaram, Sankar. Assessment of Pharmacodynamic and Pharmacokinetic Interaction of Aqueous Extract of *Cassia auriculata* L. and Metformin in Rats. *Pharmacognosy Magazine*. 2015;11(44);S423-S426 [IF:1.31]
6. Indu T.H., Raja D., Ponnusankar S. Toxicoepidemiology of acute poisoning cases in a secondary care hospital in rural South India: A five year analysis. *Journal of Postgraduate Medicine*. 2016;62(1);48-49 [IF:1.17]
7. Swati Som, Justin Antony, SP Dhanabal, S Ponnusankar. Phytochemical profiling of *Hemidesmus indicus* (L.) R. Br. Ex Schult and its antioxidant, anti-inflammatory and neuroprotection linked enzyme inhibitory properties. *Pharmacognosy Journal*. 2021; 13(1) – 196-205 [IF: 1.07]
8. Roopa Satyanarayan Basutkar, Chris Elizabeth Vinod, Shruthi Jaya Saju, Bhavya Chebrolu, Sivasankaran Ponnusankar. Optimal Dosing of Lasmiditan in the Management of Acute Migraine Attack: A Systematic Review and Meta analysis. *Ann Indian Acad Neurol*. 2021; 24(2): 155-163 [IF:0.77]
9. Arun K., Deepalakshmi Mani., Preethi Kumar., Ponnusankar Sivasankaran. Impact of Continuing Pharmacy Education on the Knowledge, Attitude and Practice of Community Pharmacists about ADR Monitoring and Reporting. *Indian Journal of Pharmaceutical Sciences*. 2019; 81 (4);633-639 [IF:0.72]
10. Indu T.H., Raja D., Manjunatha B., Ponnusankar S. Can galantamine act as an antidote for organophosphate poisoning? A review. *Indian Journal of Pharmaceutical Sciences*. 2016;78(4);428-435 [IF:0.72]
11. Deepalakshmi M., Devipriya T., Arun K.P., Ponnusankar S. Knowledge, attitude and practice of community pharmacists towards cognitive pharmaceutical care services in Tamil Nadu, India. *Indian Journal of Pharmaceutical Sciences*. 2016;78(6);844-849 [IF:0.72]
12. Ponnusankar S., Tejaswini M., Chaitanya M. Assessment of adverse drug reactions based on spontaneous signals at secondary care public hospital. *Indian Journal of Pharmaceutical Sciences*. 2015;77(4);490-493 [IF:0.72]
13. Mohan A., Ponnusankar S. Newer therapies for the treatment of metastatic breast cancer: A clinical update. *Indian Journal of Pharmaceutical Sciences*. 2013;75(3);521-261 [IF:0.72]
14. Roopa Satyanarayan Basutkar, Thomas Eipe, Divya P, Sivasankaran P. Correlation of Antenatal Depression Among the Iron And s-25(OH)D Deficient Pregnant Women: An Observational Study in A South Indian Population. *International Journal of Pharmaceutical Research*. 2021; 13(2): 3414-3420

15. Deepalakshmi M, Vijay V, Navaneethkrishnan S, Manikandan P, Arun KP and Ponnusankar S. An Online Module Series to Prepare Pharmacists to Facilitate Cognitive Pharmaceutical Services. *International Journal of Research in Pharmaceutical Sciences*. 2021;12(1);66-71
16. Keerthana Chandrasekar., Nakka Gautam Sai., Princy Sabu John., Sruthi Ninan., Raja Durai., Ponnusankar Sivasankaran. Emerging Non-Pharmacological Therapies for Post-stroke Depression and its Future Aspects: A Review. *Indian Journal of Pharmaceutical Education and Research*. 2020;54(1);1-7 [IF:0.5]
17. Ramya R., V Balasubramaniam, Gowthamarajan K., S. Ponnusankar. Current concepts and clinical importance of glycemic variability. *Diabetes & Metabolic Syndrome. Clinical Research & Reviews*. 2021; 15: 627-635 [IF:0.34]
18. Roopa Satyanarayan Basutkar., Thomas Eipe., Divya Perumal., Prince Welfred., Kezia K Sam., Regil C varghese., Ponnusankar Sivasankaran. Effect of Daily Oral Supplementation of Vitamin D3 in Iron and 25 Hydroxyvitamin D Deficient Pregnant Women: a Randomized Placebo-Controlled Study. *Latin American Journal of Pharmacy*. 2020;33(1);318-330 [IF:0.24]
19. Ponnusankar Sivasankaran., Anjana Mohan. Evaluation of Therapeutic Efficacy and Health Related Quality of Life of Anthracyclines Regimen and Taxanes with Anthracyclines Regimen in Node Positive Breast Cancer. *Journal of Young Pharmacists*. 2019;11(2);177-181
20. Thomas Eipe., Tenzin Tsundue., Divya Perumal., Roopa Satyanarayan Basutkar., Sivasankaran Ponnusankar. Reduced Vitamin D Levels and Iron Deficiency Anaemia in Pregnant Women: An Evolving Correlation. *Journal of Young Pharmacists*. 2019;11(1);92-96
21. Ponnusankar Sivasankaran., Elmutaz Belah Mohammed., Navamani Ganesan., Raja Durai. Storage and Safe Disposal of Unwanted/Unused and Expired Medicines: A Descriptive Cross-Sectional Survey among Indian Rural Population. *Journal of Young Pharmacists*. 2019;11(1);97-100 [IF: 0.18]
22. Keerthana C., Madhubala B., Loghraj N., Ponnusankar S. Case report on less potent corticosteroid induced Altered Mental status and its management at secondary care public hospital. *Journal of Young Pharmacists*. 2018: [IF:0.18]
23. Basutkar R.S., Raja D., Divya P., Das S., Ponnusankar S. Essential medication prescription and associated maternal characteristic among hospitalized pregnant women: A retrospective population based study. *Journal of Young Pharmacists*. 2018;10(2);231-236
24. Deepalakshmi M., Joseph C., Jacob C., Arun K.P., Ponnusankar S. Management of warfarin therapy: A new point-of-care monitoring service by community pharmacists in India. *Journal of Young Pharmacists*. 2018;10(3);350-353
25. Aneena Suresh. Impact of Pharmacist-Given Patient-Counseling on Health-Related Quality of Life (HRQOL) of Haemodialysis Patients. *Journal of evolution of medical and dental sciences*. 2021;10(12);856-860

EXPERTISE AND SERVICES WE OFFER..

- Medical Writing and Protocol Preparation For Clinical Studies

- Developing and validating questionnaire for health care surveys

- Education & training in areas of clinical research

- Designing and conduct of healthcare surveys

- Designing & conduct of pharmacokinetic and pharmacogenetic studies

For Communication

Dr S Ponnusankar

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WORLD PHARMACISTS DAY CELEBRATIONS (Sep 25)



Summary Statistics of International In-bound Fellowships Received by JSS College of Pharmacy, Ooty.

Number of DST - FICCI Dr. CV Raman Fellowship	8
Number of NAM S & T Fellowship	3
Number of INSA - JRD TATA FellowshipTotal	2
Number of International Fellowships	13
Total Fellowship Amount Received (Rs.)	25.19 Lakhs
Total Number of Countries from which the researchers visited	9

INTERNATIONAL FELLOWSHIPS MENTORED

	Name of the Fellowship	Name of the Research Fellow	Name of the University & Country	Mentor	Title	Period of Visit	Amount Received (Lakhs)
1	DST - FICCI Dr. CV Raman Fellowship	Dr. O. A. Odeku	University of Ibadan, Nigeria	Dr. K. Gowthamarajan	"Evaluation of Natural gums as carrier drug delivery and drug targeting to the colon"	March - April 2012	1.65
2	DST - FICCI Dr. CV Raman Fellowship	Dr. Patrick Amoateng	School of Pharmacy, University of Ghana, Ghana	Dr. S. P. Dhanabal	"Antioxidant Activity - Directed Fractionation of a Hydro - Ethanolic Extract of <i>SynedrellaNodiflora</i> (L) Whole Plant"	May - October 2013	2.6
3	DST - FICCI Dr. CV Raman Fellowship	Dr.Kossineto Wogo	Faculty of Science - University of Lome, Togo	Dr. S. P. Dhanabal	" <i>Calotropisprocera</i> , <i>Vitexdoniana</i> and <i>Ficuspolita</i> "	May - July 2013	1.6
4	DST - FICCI Dr. CV Raman Fellowship	Dr. Beth Ndunda Mbithi	University of Nairobi, Kenya	Dr. S. P. Dhanabal	"Phytochemical and Biological Activity Investigations of three Kenyan Croton Species"	May - July 2013	1.6
5	DST - FICCI Dr. CV Raman Fellowship	Dr. Constantin Manien ondabine	Polytechnic University of Bobo, Burkina Faso	Dr. S. P. Dhanabal	"Chemicals and Biological Investigation of three Medicinal Plants from <i>Burkina Faso</i> : <i>Lippia multiflora</i> , <i>Grangeamederaspatana</i> and <i>Cymbopogongiganteus</i> "	May - October 2013	2.6
6	NAM S&T Fellowship	Dr. Nene Bi Semi Anthelme	Lab. of animal physiology, Ivory Cost	Dr. R. Vadivelan	"Evaluation of sub chronic toxicity studies of the aqueous stem bark extract of <i>BrieliaFerruginea</i> in rats"	January - July 2016	2.7
7	INSA - JRD TATA	Mr. Esan Adewale Michael ESAN , Nigeria	University of Ibadan, Nigeria	Dr. S. P. Dhanabal	"Antihyperlipidemic and glucose lowering effect of hydroalcoholic extract of bioregulator treated okra (<i>Abelmoschusesculantus</i>) fruit in triton - induced hyperlipidemia rats"	February - May 2016	0.49

INTERNATIONAL FELLOWSHIPS MENTORED

	Name of the Fellowship	Name of the Research Fellow	Name of the University & Country	Mentor	Title	Period of Visit	Amount Received (Lakhs)
8	NAM S&T Fellowship	Mr. Andre Ndagijimana	National Industrial development agency (Nirda), Rwanda	Dr. S. P. Dhanabal	"Formulation and Quality Control of an Antitussive and Expectorant herbal drug from Rwandese Medicinal Herbs"	January - July 2016	2.7
9	INSA - JRD TATA	Mr. Blaise NganouKemajou	University of Dschang, Cameroon	Dr. S. Jubie	"Phytochemical Investigation. Anti-Malarial and cytotoxic screening of Cameroonian Medical Plants; Chemicals Transformation of some Isolates"	April - July 2016	0.49
10	NAM S&T Fellowship	Mr. Awotunde Oluwasagam Samson	Habib Medical School, Islamic International University, Uganda	Dr. S. P. Dhanabal	"Antioxidant, cytotoxicity and Erectogenic Potential of <i>Terminalia schimperiana</i> root"	August - December 2017	2.7
11	DST - FICCI Dr. CV Raman Fellowship	Dr. Micael Bedikou	University of FHB, Ivory Coast	Dr. S. P. Dhanabal	"Selection and production of bioactive peptides from germinating <i>Amaranthus Hybridus</i> for metabolic regulation of obesity, diabetes and hypertension"	Feb - August 2018	3.06
12	DST - FICCI Dr. CV Raman Fellowship	Mr. Kaggwa Bruhan	Makerere University, Uganda	Dr. N. Krishnaveni	"Challenges of medicines Quality Assurance resource Limited Countries"	March - September 2018	2.85
13	DST - FICCI Dr. CV Raman Fellowship	Dr. Doumbi addressa	Felix Houphouet - Boigny University & University of Man, Ivory Coast	Dr. S. P. Dhanabal	"Phytochemical, Pharmacological and toxicological studies of two Ivorian antidiabetic medicinal plants"	March - May 2018	1.8

SUMMARY STATISTICS OF DOCTOR OF PHILOSOPHY (Ph.D) AWARDED & ONGOING

Year of Recognition as Research Centre for Pursuing PhD by the Tamil Nadu Dr. M.G. R. Medical University, Chennai	1995
Year of First PhD Awarded by the Tamil Nadu Dr. M.G.R. Medical University, Chennai	1999
Total No. of PhDs awarded by the Tamil Nadu Dr. M.G.R. Medical University, Chennai	86 Full Time: 61 & Part Time : 25
Year of Recognition as Research Centre for Pursuing PhD by the JSS AHER , Mysuru (Formerly known as JSS University or Jagadguru Sri Shivarathreeshwara University)	2009
Year of First PhD Awarded by the JSS AHER, Mysuru	2012
Total No. of PhDs awarded by the JSS AHER, Mysuru	110 (as on August 2021) Full Time : 92 & Part Time: 18
Total No. of scholars pursuing PhD under the JSS AHER, Mysuru	124 Full Time : 103 & Part Time: 21
Total No. of PhDs awarded	196 Full Time 153 & Part Time: 43



Ph.D. Awardees under The Tamilnadu Dr. M.G.R. Medical University, Chennai

S. No	Name of the Candidate	Name of the Guide	Year of Award
1.	Dr. Ravisankar. S (PT)	Dr. M.J. Nanjan	1999
2.	Dr. Samanta. MK (PT)	Dr. Rajeev dube	1999
3.	Dr. Chandrasekar. MJN (PT)	Dr. Rajeev dube	1999
4.	Dr. Bangarurajan. K (PT)	Dr. M.J. Nanjan	2000
5.	Dr. Sankar. S (PT)	Dr. M.J. Nanjan	2001
6.	Dr. Vasudevan. M(PT)	Dr. M.J. Nanjan	2001
7.	Dr. Jayakar. B	Dr. B. Suresh	2002
8.	Dr. Elango. K (PT)	Dr. B. Suresh	2002
9.	Dr. Dhanaraj. SA (PT)	Dr. VasanthPandit	2002
10.	Dr. Meyyanathan. SN (PT)	Dr. G.V.S. Rama sarma	2002
11.	Dr. Ravichandran. M (PT)	Dr. M.J. Nanjan	2003
12.	Dr. Shanthi. K(PT)	Dr. P. Vijayan	2004
13.	Dr. Vijayendraswamy SM	Dr. M.J. Nanjan	2004
14.	Dr. S. P. Dhanabal	Dr. C. K. Koate	2005

S. No	Name of the Candidate	Name of the Guide	Year of Award
15.	Dr. Bhaskar. VH	Dr. M.J. Nanjan	2005
16.	Dr. Murugan. V	Dr. ShrishailappaBadami	2005
17.	Dr. Subburaju. T (PT)	Dr. ShrishailappaBadami	2005
18.	Dr. Vijaya. C	Dr. B. Suresh	2005
19.	Dr. Arun Garg	Dr. B. Suresh	2005
20.	Dr. Rajendran S. D	Dr. Madhusudan Rao	2006
21.	Dr. Duraiswamy. B (PT)	Dr. M.J. Nanjan	2006
22.	Dr. Giriraj Kulkarni. T (PT)	Dr. P. Vijayan	2006
23.	Dr. Kumar. EP (PT)	Dr. VasanthPandit	2006
24.	Dr. Aravindaraj. JR	Dr. M.J. Nanjan	2006
25.	Dr. Mahadevan. N (PT)	Dr. M.J. Nanjan	2006
26.	Dr. Ravichandran. V	Dr. B. Suresh	2006
27.	Dr. Wesley. NES	Dr. M.K. Samanta	2006
28.	Dr. Ramakrishna Sabaraya. A	Dr. B. Suresh	2007



Ph.D. Awardees under The Tamilnadu Dr. MGR Medical University, Chennai

S. No	Name of the Candidate	Name of the Guide	Year of Award
29.	Dr. BigalaRajKamal	Dr. M.J. Nanjan	2007
30.	Dr. Gowthamarajan. K (PT)	Dr. P. Vijayan	2007
31.	Dr. Tamizhmani. T	Dr. ShrishailappaBadami	2007
32.	Dr. Anand Vijaya Kumar (QIP)	Dr. M. Ramanathan	2007
33.	Dr. Raghuchandrashekar. H	Dr. P. Vijayan	2007
34.	Dr. Suresh Kumar. S	Dr. M.J.N. Chandrasekar	2007
35.	Dr. Praveen Bommu (PT)	Dr. M.J.N. Chandrasekar	2008
36.	Dr. Vijay DhondiramWagh	Dr. M.K. Samanta	2008
37.	Dr. Channabasavaraj. KP	Dr. ShrishailappaBadami	2008
38.	Dr. Ashok Godavarthy	Dr. P. Vijayan	2008
39.	Dr. Prakash Reddy. PK	Dr. M.J.N. Chandrasekar	2008
40.	Dr. Senthil Kumar. N	Dr. M.J.N. Chandrasekar	2008
41.	Dr. Sampath Kumar. KP	Dr. M.K. Samanta	2008
42.	Dr. Vijayalakshmi. S	Dr. M.J. Nanjan	2008

S. No	Name of the Candidate	Name of the Guide	Year of Award
43.	Dr. Anilkumar. D	Dr. M.J. Nanjan	2008
44.	Dr. SaravanaBabu. C	Dr. M. Ramanathan	2008
45.	Dr. Manimaran. S (PT)	Dr. B. Suresh	2008
46.	Dr. GurubasavarajPujar	Dr. M.J.N. Chandrasekar	2008
47.	Dr. Wilson. B	Dr. M.K. Samanta	2008
48.	Dr. Dongresantosh Kumar Hanumathrao	Dr. ShrishailappaBadami	2008
49.	Dr. Srinivasan. R	Dr. M.J.N. Chandrasekar	2009
50.	Dr. Mahesh Kumar. M	Dr. M.J.N. Chandrasekar	2009
51.	Dr. Shanmugasundaram. R	Dr. M. Ramanathan	2009
52.	Dr. Padma. R	Dr. P. Vijayan	2009
53.	Dr. Nandhakumar. N	Dr. B. Suresh	2009
54.	Dr. Satish Kumar. MN (PT)	Dr. P. Vijayan	2009
55.	Dr. JaishreeVaijanathappa	Dr. ShrishailappaBadami	2009
56.	Dr. Rajan. S	Dr. S.N. Meyyanathan	2010



Ph.D. Awardees under The Tamilnadu Dr. MGR Medical University, Chennai

S. No	Name of the Candidate	Name of the Guide	Year of Award
57.	Dr. Suresh. J	Dr. K. Elango	2010
58.	Dr. Subhashini. V	Dr. B. Suresh	2010
59.	Dr. S. Ponnusankar	Dr. Pulok Kumar Mukherjee	2011
60.	Dr. Prasanth Kumar. BR (PT)	Dr. M.J. Nanjan	2011
61.	Dr. MeenakshiSundaram	Dr. B. Suresh	2011
62.	Dr. Arunadevi. BS	Dr. S.N. Meyyanathan	2011
63.	Dr. MudduluruNirajanBabu	Dr. K. Elango	2011
64.	Dr. Maithili. V (QIP)	Dr. S.P. Dhanabal	2011
65.	Dr. Raju. L(QIP)	Dr. P. Vijayan	2011
66.	Dr. Mahendran. S	Dr. ShrishailappaBadami	2011
67.	Dr. Muralidharan. S	Dr. S.N. Meyyanathan	2011
68.	Dr. NagasamyVenkatesh. D (PT)	Dr. S. Sankar	2011
69.	Dr. Ravichandran. JK	Dr. ShrishailappaBadami	2012
70.	Dr. Saurabh Gupta	Dr. M.K. Samanta	2012
71.	Dr. Geetha. B	Dr. ShrishailappaBadami	2012

S. No	Name of the Candidate	Name of the Guide	Year of Award
72.	Dr. Muruganantham. N	Dr. S.P. Dhanabal	2012
73.	Dr. Vijay Hiremath. B	Dr. M.J. Nanjan	2012
74.	Dr. Desu Brahma Srinivasarao	Dr. K. Elango	2012
75.	Dr. Afzal Azam (PT)	Dr. B. Suresh	2012
76.	Dr. Krishnaveni. N(PT)	Dr. S.N. Meyyanathan	2012
77.	Dr. Kalpesh Patel	Dr. M.K. Samanta	2012
78.	Dr. KalshettiMallinathShankerappa (QIP)	Dr. S. Sankar	2012
79.	Dr. Krishnama Raju. KR	Dr. K. Elango	2012
80.	Dr. Janardhanan. S	Dr. K. Elango	2012
81.	Dr. Sangeetha. S	Dr. M.K. Samanta	2012
82.	Dr. Vishnu Prasad	Dr. M.K. Samanta	2012
83.	Dr. Gowramma. B (PT)	Dr. S.N. Meyyanathan	2013
84.	Dr. Lakshminarasimaiah (QIP)	Dr. M.J.N. Chandrasekar	2013
85.	Dr. Krishnaraj. K	Dr. M.J.N. Chandrasekar	2012
86.	Dr. Praveen. TK	Dr. M.J.N. Chandrasekar	2013

S. No	Name of the Candidate	Name of the Guide	Year of Award
1.	Dr. OmjiPorwal	Dr. M.J. Nanjan	2012
2.	Dr. Jayeshkumar Bhatt	Dr. M.J. Nanjan	2012
3.	Dr. Ankur Gupta	Dr. M.J.N. Chandrasekar	2013
4.	Dr. Mahalakshmi. S	Dr. M.J. Nanjan	2013
5.	Dr. BhagyashreeKhamble	Dr. B. Duraiswamy	2013
6.	Dr. RohiniDivedi	Dr. M.J.N. Chandrasekar	2013
7.	Dr. Vadivelan. R (PT)	Dr. S.P. Dhanabal	2013
8.	Dr. Deepa Pathak	Dr. K. Gowthamarajan	2013
9.	Dr. Srividya. AR (PT)	Dr. S.P. Dhanabal	2013
10.	Dr. Alexander. S	Dr. M.J.N. Chandrasekar	2013
11.	Dr. Arun. KP (PT)	Dr. K. Elango	2013
12.	Dr. Kalirajan(a)Manivannan R (PT)	Dr. S. Sankar	2013
13.	Dr. Pankaj Masih	Dr. M.J.N. Chandrasekar	2013

S. No	Name of the Candidate	Name of the Guide	Year of Award
14.	Dr. Wadhvani Ashish Devidas	Dr. P. Vijayan	2013
15.	Dr. RoshiniChandrasekar	Dr. M.J. Nanjan	2013
16.	Dr. Saurabh Gupta	Dr. B. Duraiswamy	2013
17.	Dr. RubhaSexena	Dr. M.J. Nanjan	2014
18.	Dr. Manikandan. D	Dr. M.J. Nanjan	2014
19.	Dr. Ganesh. GNK (PT)	Dr. S.P. Dhanabal	2014
20.	Dr. Jawahar. N (PT)	Dr. S.N. Meyyanathan	2014
21.	Dr. Shanish Antony (PT)	Dr. P. Vijayan	2014
22.	Dr. Upendra B. Gandugule	Dr. B. Duraiswamy	2014
23.	Dr. Jubie. S (PT)	Dr. S.P. Dhanabal	2014
24.	Dr. Kunal Jain	Dr. K. Gowthamarajan	2014
25.	Dr. Priyanka. DL	Dr. K. Gowthamarajan	2014
26.	Dr. Sumeet Sood	Dr. K. Gowthamarajan	2014

S. No	Name of the Candidate	Name of the Guide	Year of Award
27.	Dr. Anil Dubala	Dr. M.K. Samanta	2014
28.	Dr. JeyasankarKosaraju	Dr. B. Duraiswamy	2014
29.	Dr. RizwanBhasha. K	Dr. M.K. Samanta	2014
30.	Dr. Shanmugam. R	Dr. K. Gowthamarajan	2014
31.	Dr. ShanthivardhanChinni	Dr. K. Elango	2014
32.	Dr. Vishal P Awari	Dr. S.N. Meyyanathan	2014
33.	Dr. MadhuriKadyala	Dr. K. Elango	2014
34.	Dr. Viral L Patel	Dr. P. Vijayan	2015
35.	Dr. Suresh kumar. R (PT)	Dr. K. Gowthamarajan	2015
36.	Dr. Raja. D (PT)	Dr. P. Vijayan	2015
37.	Dr. Ashish Zalke	Dr. B. Duraiswamy	2015
38.	Dr. Gomathy. S(PT)	Dr. S.N. Meyyanathan	2015
39.	Dr. Jeyaprakash. MR(PT)	Dr. S.N. Meyyanathan	2015

S. No	Name of the Candidate	Name of the Guide	Year of Award
40.	Dr. Hemnath. E	Dr. S. Sankar	2016
41.	Dr. Senthil Kumar. KR	Dr. S.N. Meyyanathan	2016
42.	Dr. ShashankTummala	Dr. K. Gowthamarajan	2016
43.	Dr. Indu. TH	Dr. S. Ponnusankar	2016
44.	Dr. AmbhoreNileshSudhakar	Dr. K. Elango	2016
45.	Dr. Rama Satyanarayana Raju K	Dr. K. Elango	2016
46.	Dr. Venkata Siddhartha. T	Dr. K. Gowthamarajan	2016
47.	Dr. Prashanth Francis	Dr. M.J.N. Chandrasekar	2017
48.	Dr. Rajeshkumar. R (PT)	Dr. S.P. Dhanabal	2017
49.	Dr. Satendra Kumar Dubey	Dr. M.K. Samanta	2017
50.	Dr. Karthik Y	Dr. S.N. Meyyanathan	2017
51.	Dr. MVNL Chaithanya	Dr. S.P. Dhanabal	2017
52.	Dr. Kari VVS Narayana Reddy	Dr. K. Gowthamarajan	2017

S. No	Name of the Candidate	Name of the Guide	Year of Award
53.	Dr. Anjana. AK	Dr. M.J.N. Chandrasekar	2017
54.	Dr. Abhilash Thomas	Dr. M.K. Samanta	2017
55.	Dr. ShashankMulukutla	Dr. K. Elango	2017
56.	Dr. Naga Srinivas Tripuraneni	Dr. Md Afzal Azam	2017
57.	Dr. Ravi Sankar. P	Dr. K. Gowthamarajan	2018
58.	Dr. Vanitha. B	Dr. B. Duraiswamy	2018
59.	Dr. Uday K. Baruah	Dr. K. Gowthamarajan	2018
60.	Dr. Sameer Kumar Verma	Dr. S.P. Dhanabal	2018
61.	Dr. JameeraBegam. A	Dr. S. Jubie	2018
62.	Dr. Babu. B (PT)	Dr. S.N. Meyyanathan	2018
63.	Dr. Kousalya. S	Dr. K. Gowthamarajan	2018
64.	Dr. Sreedevi. V	Dr. PR. Anand Vijaya Kumar	2018
65.	Dr. DittuThekkekkara	Dr. B. Duraiswamy	2018
66.	Dr. Gowtham Priya. J	Dr. M.J.N. Chandrasekar	2018

S. No	Name of the Candidate	Name of the Guide	Year of Award
67.	Dr. Nivishna Venkataraj	Dr. M.J.N. Chandrasekar	2018
68.	Dr. Manal Mohammed	Dr. M.J.N. Chandrasekar	2018
69.	Dr. Jayaram. U	Dr. Md Afzal Azam	2018
70.	Dr. Janarthanan. T	Dr. Md Afzal Azam	2018
71.	Dr. YasamVenkata Ramesh	Dr. V. Senthil	2018
72.	Dr. Dilmel Krishnan	Dr. S.P. Dhanabal	2018
73.	Dr. Rajendiran. K	Dr. S.P. Dhanabal	2018
74.	Dr. Gajji Neelamma (QIP)	Dr. B. Duraiswamy	2018
75.	Dr. Merikanapalli V Harsha	Dr. V. Senthil	2019
76.	Dr. NavyaLakkappa	Dr. T.K. Praveen	2019
77.	Dr. Pachava Vengal Rao	Dr. T.K. Praveen	2019
78.	Dr. Mahesh. T	Dr. S.P. Dhanabal	2019
79.	Dr. Satya LavanyaJakki	Dr. V. Senthil	2019
80.	Dr. Asha Jose	Dr. K. Elango	2019

S. No	Name of the Candidate	Name of the Guide	Year of Award
81.	Dr. Gopalakrishnan. R	Dr. R. Vadivelan	2019
82.	Dr. Nila Mary Varghese	Dr. V. Senthil	2019
83.	Dr. Deepalakshmi. M (PT)	Dr. S. Ponnusankar	2019
84.	Dr. SrikanthJupudi	Dr. Md Afzal Azam	2019
85.	Dr. Nehru Sai Suresh Chalicham	Dr. B. Duraiswamy	2019
86.	Dr. Pavan Kumar Chintamaneni	Dr. T.K. Praveen	2019
87.	Dr. Satya Sessa Sai Kiran. P	Dr. T.K. Praveen	2019
88.	Dr. Treesa P Varghese	Dr. P.R. Anand Vijaya Kumar	2019
89.	Dr. Muhas C	Dr. P.R. Anand Vijaya Kumar	2019
90.	Dr. Anindita De	Dr. K. Gowthamarajan	2019
91.	Dr. Arun. T	Dr. R. Vadivelan	2019
92.	Dr. Nagarajan. JSK (PT)	Dr. K. Elango	2019
93.	Dr. Vedpal	Dr. S.P. Dhanabal	2020
94.	Dr. Nagashree. KS	Dr. T.K. Praveen	2020
95.	Dr. Jenifer Ashwini. S	Dr. S.N. Meyyanathan	2020

S. No	Name of the Candidate	Name of the Guide	Year of Award
96.	Dr. Narendaran. ST	Dr. S.N. Meyyanathan	2020
97.	Dr. Narayanakutty Nair	Dr. PR. Anand Vijaya Kumar	2020
98.	Dr. Menge Denis Mingate	Dr. PR. Anand Vijaya Kumar	2020
99.	Dr. NethravathiPuttappa	Dr. R. Sureshkumar	2020
100.	Dr. Gifty M. Jojo	Dr. K. Gowthamarajan	2020
101.	Dr. Roopa. BS (PT)	Dr. S. Ponnusankar	2020
102.	Dr. Sonam Patel	Dr. N. Krishna Veni	2020
103.	Dr. Chipurupalli Sandhya	Dr. K. Elango	2020
104.	Dr. Santhosh. SB	Dr. M.J.N. Chandrasekar	2020
105.	Dr. BaishaliAlok Jana	Dr. Ashish Wadhvani	2020
106.	Dr. Arivukkarasi V	Dr. M.J.N. Chandrasekar	2021
107.	Dr. Niladri Shah	Dr. Md Afzal Azam	2021
108.	Dr. A. Selvaraj	Dr. M.J.N. Chandrasekar	2021
109.	Dr. Gouru Santhosh Reddy	Dr. N. Krishnaveni	2021
110.	Dr. Mohsina Hyder K	Dr. S. Ponnusankar	2021

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Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
1.	Ms. Swathi Som	Dr. S. Ponnusankar	Pharmacy Practice	Isolation, Characterization And Neuroprotective Evaluation Of Lead Compounds From HemidesmusIndicus (L) R. Br. And VernoniaAnthelmintica (L.) Willd For The Management Of Alzheimer's Like Condition	01.10.2015	15PPT017
2.	Mr. Logesh R	Dr. S. P. Dhanabal	Pharmacognosy	Evaluation of herbal mediated therapeutic activity against pancreatic lipase to treat obesity	01.07.2017	17PPT007
3.	Mr. Podila Naresh	Dr. S. Jubie	Pharm. Chemistry	Structured based in-silico design and development of early DENV inhibitors as potential anti-dengue lead compounds	01.07.2018	18PPT018
4.	Mr. Kaviarasan	Dr. B. Gowramma	Pharm. Chemistry	Novel PARP1 and STAT3 dual inhibitor: design, synthesis and evaluation for their Anti-cancer potential	01.10.2018	18PPT025
5.	Ms. Piyongsola	Dr. T. K. Praveen	Pharmacology	Repurposing Beta-2 adrenoreceptor agonists as Anti-Parkinson agents	01.10.2018	18PPT023
6.	Mr. Sanesh Prasad Jose	Dr P R Anand Vijaya Kumar	Pharmacy Practice	Optimizing the drug therapy of selected drugs salmeterol and formoterolfumrate using pharmacogenetics and pharmacodynamics	01.04.2014	14PPT007
7.	Ms. Deepika N P	Dr. Duraiswamy B	Pharmacognosy	Curative effect of traditional crab extract in Parkinson disease	01.10.2015	15PPT023
8.	Mr. Mantosh Kumar Singh	Dr. G N K Ganesh	Pharmaceutics	Development and Evaluation of Tumor Homing Peptide Linked surface Modified Liposomes of Capecitabine to target HER-2 Positive Breast Cancer.	01.10.2016	16PPT007
9.	Mr. Mohamed Sheik Tharik A	Dr S N Meyyanathan	Pharmaceutical Analysis	"In vitro - in vivo correlations for the developed modified release formulations of anti cancer drugs by LC-MS/MS"	01.04.2017	17PPT001
10.	Ms. Anagha P P	Dr S Ponnusankar	Pharmacy Practice	Haemovigilance: An initiative study on Blood transfusion reactions at Public Hospital	01.04.2017	17PPT002
11.	Ms. Pandiselvi A	Dr R Kalirajan	Pharmaceutical Chemistry	Insilico design, synthesis and biological evaluation of acridine derivatives for targetting breast cancer	01.10.2017	17PPT009

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
12	Mr. Bharat Kumar Reddy	Dr K Satyanarayana Reddy	Pharmaceutics	Topical formulation for the management of diabetic wound	01.01.2018	18PPT001
13	MrsArti Suresh Kumar	Dr N Krishnaveni	Pharmaceutical Analysis	A cross sectional assessment of environmental and nutritional risk factors -meditating hypovitaminosis D in school children (6-12 years of age) in high altitude region of Nilgiris, Tamilnadu	01.04.2018	18PLM007
14	Mr. M Raja	Dr R Suresh Kumar	Pharmaceutics	Fabrication of oligonucleotide nanocomplex/carbon nanotube as gene therapy carrier for targeting prostate carcinoma	01.04.2018	18PPT005
15	Ms. Vasanthi C	Dr R Suresh Kumar	Pharmaceutics	A novel flavonoid based combination strategy in lipid based nanoemulsion to target brain via intranasal delivery to address Parkinson's diseases	01.07.2018	18PPT010
16	Ms. Chenmala Karthika	Dr R Suresh Kumar	Pharmaceutics	A novel combination of flavonoids and 5-Fluorouracil dual lipid conjugate in self nanoemulsifying drug delivery system to target colon carcinoma cells	01.07.2018	18PPT011
17	Ms. Deepthi Ramamurthi	Dr MJN Chandrasekar	Pharmaceutical Chemistry	Targeting of stimuli responsive elastin like polypeptide-drug conjugates to ovarian cancer	01.07.2018	18PLM016
18	Ms. Asmita Mahapatra	Dr S N Meyyanathan	Pharmaceutical Analysis	QbD approach on Analytical Method Development & Validation for the estimation of anticancer drugs in their formulation by LC MS MS	01.07.2018	18PPT017
19	Mr. Yerrakula Goutham	Dr V Senthil	Pharmaceutics	Study on Influence of CES1 genetic polymorphisms on pharmacokinetic effect of Dabigatran Etxilate in south indian population	01.07.2018	18PPT015
20	Mr. Samrat Debnath	Dr M R Jeyaprakash	Pharmaceutical Analysis	Impurity profiling and genotoxicity approach of antiepileptic drug moiety	01.07.2018	18PPT016
21	Ms. Rinchi Bora	Dr M R Jeyaprakash	Pharmaceutical Analysis	Impurity Profiling and Genotoxicity approach for stress induced related substance on certain Retroviral entity	01.07.2018	18PPT019
22	Mr. Karthika Anoop	Dr N Krishnaveni	Pharmaceutical Analysis	Formulating a functional food with vitamin K and vitamin D: Assessment of bioavailability and effectiveness in combating post-menopausal osteoporosis condition	01.07.2018	18PPT013
23	Ms. Chennu Manisha	Dr A Justin	Pharmacology	Development of new chemical entities to activate glial EAAT-2 transporter system: A novel strategy for Alzheimer's disease	01.07.2018	18PPT012

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
24	Ms. Gullapalli Kowmudi	Dr N Krishnaveni	Pharmaceutical Analysis	Nutrikinetic assessment of Bioactive compound Lunasin a potential anticancer agent isolated from functional foods of Indian Origin	01.07.2018	18PPT014
25	Mr. Balaji H	Dr. B. Duraiswamy	Pharmacognosy	Molecular Dynamics of vitamin D receptor modulation by PUFAs	01.07.2018	18PLM015
26	Ms. Jyothi Krishna P	Dr K P Arun	Pharmacy Practice	Optimization of selected antibiotics using pharmacometrics	01.07.2018	17PPT008
27	Ms. Swarupa Rani Gurram	DrMd Afzal Azam	Pharmaceutical Chemistry	Gyrase B and topoisomerase IV parE design synthesis and antibacterial activity	01.10.2018	18PPT020
28	Ms. YeleVidyasrilekha	DrMd Afzal Azam	Pharmaceutical Chemistry	Design, synthesis and biological evaluation of some novel antibacterial agents targeting ParE enzyme	01.10.2018	18PPT021
29	Ms. MamtaKumari	Dr Praveen T K	Pharmacology	Surface modified DLL4 targeted solid lipid nanoparticles of gamma-secretase inhibitor for the effective treatment of breast cancer	01.10.2018	18PPT022
30	Ms.TallapaneniVyshnavi	Dr K Satyanarayana Reddy	Pharmaceutics	Enhancement of diabetic wound healing by topical treatment	01.10.2018	18PPT026
31	Mr. Sai Akilesh M	Dr Ashish D Wadhawani	Pharmaceutical Biotechnology	Inhibition of HIV and HSV - 1 & 2 entry by selective binding domain using metal based nano-molecules and antimetabolite drugs	01.10.2018	18PLM026
32	Mr. Sunil Kumar Patnaik	Dr MJN Chandrasekar	Pharmaceutical Chemistry	Chemotherapeutic potential of secondary metabolites isolated from vigna species seeds	01.10.2018	18PPT028
33	Ms. Aswathy V S	Dr K P Arun	Pharmacy Practice	Dosage Optimization of Clopidogrel in South Indian Patients by Pharmacogenetic and Pharmacometrics Approach	01.10.2018	18PPT029
34	Mr. ShyamsundarPottabathula	Dr S Jubie	Pharmaceutical Chemistry	Insilico design and development of BRCA1 mimetics	01.01.2019	19PPT001
35	Ms. AthuruSupriya	Dr T K Praveen	Pharmacology	Molecular dissection of the role of dietary fatty acids on fat derived signals promoting the growth of endometriosis lesion and their transition to ovarian cancer	01.01.2019	19PLT002
36	Ms. DivyaPamu	Dr K Satyanarayana Reddy	Pharmaceutics	Statin nanofibres coated with silver nanoparticles with angiogenic and antibacterial properties for enhancing diabetic healing associated with infections	01.01.2019	19PPT003

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
37	Ms. Shilpa T N	Dr Karri VVS Narayana Reddy	Pharmaceutics	Development of EPA/DHA loaded chitosan and its potential to treat diabetic wounds	01.01.2019	19PPT004
38	Ms. FarhathSherin	Dr Gomathy S	Pharmaceutical Chemistry	CNS Targeting Of 4-Thiazolidinones Bearing 1,3,4-Oxadiazole Moiety As Sirt3 Activators Targeting Parkinson'S Disease	01.01.2019	19PPT002
39	Mr. Pitta Sri Ram Charan	Dr N Jawahar	Pharmaceutics	Bio-directed green synthesis of cerium oxide Nanoparticles for enhanced antioxidant property in the effective management of Alzheimer disease	01.04.2019	19PPT005
40	Ms. Sai Surya NikithaUpadhyayula	Dr R Suresh Kumar	Pharmaceutics	Diarylquinoline and flavonoid combination approach to address tuberculosis meningitis: Modified nanoemulsion strategy to cross blood brain barrier via intranasal delivery	01.07.2019	19PPT010
41	Ms. Anjali P B	Dr N Jawahar	Pharmaceutics	Development of Nanostructured Lipid Carrie (NLC) for seizure activation therapy through prodrug approach	01.07.2019	19PPT008
42	Mr. Vignesh M	Dr GNK Ganesh	Pharmaceutics	Preventive measures and Control strategies for the Data Integrity (GxP) issues by framing Regulatory guidelines	01.07.2019	19PPT012
43	Mr. Rohith Chandra	Dr K P Arun	Pharmacy Practice	Dosage optimization of Leflunomide in South Indian patients by pharmacogenetic and pharmacometric approach.	01.07.2019	19PPT009
44	Ms. GarikapatiKusuma	Dr Praveen T K	Pharmacology	Adipose Specific delivery of oral thiazolidinedione nanoparticles functionalized with RGD and P3 peptides to reduce side effects and improve efficacy.	01.07.2019	19PPT007
45	Mr. Ammu V VV Ravi Kiran	Dr Praveen T K	Pharmacology	Tumor suppressing agents loaded carbon nanotubes for the treatment of non-small cell lung cancer	01.07.2019	19PPT006
46	Ms. PulukuriDivyaBhargavi	Dr B Duraiswamy	Pharmacognosy	Evaluation of protective and curative effect of selected medicinal plants on cancer disorder	01.07.2019	19PPT026
47	Mr. BhadramKalyanChekraverthy	Dr N Krishnaveni	Pharmaceutical Analysis	Beta carotene and anthocyanins: quantification and evaluation of invitro bio accessibility and in vivo bioavailability from selected Biofortied sweet potato cultivars in India	01.07.2019	19PPT017
48	Mr. GaddamNarasimha Rao	Dr A Justin	Pharmacology	Evaluation of Angiotensin receptor 1 (AT1) blockers with glial glutamate transporter (EAAT-2) activators form cerebral ischemia	01.07.2019	19PPT016

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
49	Mr. ChinthaNarendar	Dr A Justin	Pharmacology	Investigation and molecular mechanism elucidation of novel combination of Riluzole and Rivastigmine for Alzheimer's disease.	01.07.2019	19PPT019
50	Mr. Raju Bairi	Dr R Vadivelan	Pharmacology	Evaluation of isoflavones for cardioprotective activity targeting estrogen receptor - Alpha and Beta subtypes	01.07.2019	19PPT018
51	Mr. ChallaYella Reddy	Dr V Senthil	Pharmaceutics	Formulation and Evaluation of Natural compound loaded nanoparticles for effective treatment of Alzheimer's disease	01.07.2019	19PPT022
52	Mr. MoturiAnvesh Raj (QIP)	Dr S Ponnusankar	Pharmacy Practice	A study and monitoring of poisoning cases and its management in secondary care public hospital	01.07.2019	19PPT030
53.	Mr. Deepraj Paul (QIP)	Dr B. Duraiswamy	Pharmacognosy	Molecular dynamics of essential polyunsaturated fatty acids on neuroinflammation	01.07.2019	19PPT015
54.	Ms. Rihana Begum Patnool	Dr S Ponnusankar	Pharmacy Practice	Assesment of antimicrobial resistance and development of antibiotic policy in secondary care hospital.	01.07.2019	19PPT027
55.	Ms. S K Janani	Dr S P Dhanabal	Pharmaceutics	Nanolipid drug conjugate of artemisinin derivative linked with aptamers for active targeting of breast cancer and to address angiogenesis and metastasis	01.07.2019	19PPT032
56.	Ms. Muhasina K M (NDF)	Dr S P Dhanabal	Pharmacognosy	Identification of analytical and biological markers. for anti cancer herbal formulations	01.07.2019	19PPT013
57.	Mr. Mudavath Ravi Naik (NDF)	Dr Praveen T K	Pharmacology	Identification of anticancer principles from Drynariaquercifolia using bioassay guided fractination	01.07.2019	19PPT028
58.	Ms. PalathiDivyaJyothi	Dr B Duraiswamy	Pharmacognosy	Evaluation of anti-diabetic effect of selected medicinal plants"	01.07.2019	19PPT025
59.	Ms. MudeLavanya	Dr K Satyanarayana Reddy	Pharmaceutics	Injectable self-healing hydrogel of celecoxib to potentiate the angiogenesis and suppress the inflammation and infections associated with diabetic wounds	01.07.2019	19PPT024
60.	Mr. Prahmarsh Kumar M R	Dr N Jawahar	Pharmaceutics	Modulating the metabolic pathway of ovarian cancer cells through biospecificnano drug delivery	01.07.2019	19PPT014
61.	Ms. Shalini R (Life Sciences)	Dr MJN Chandrasekar	Pharmaceutical Chemistry	Bioguided Search of Bioactive constituents from Eupatorium glandulosum	01.07.2019	19PLT005
62.	Ms. Cardiliya A P (Life Sciences)	Dr MJN Chandrasekar	Pharmaceutical Chemistry	Bio guided identification and insilico prediction of active compounds from Hemigraphiscolorata	01.07.2019	19PLT004

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
63.	Mr. Chandan C (Life Sciences)	Dr M R Jeyaprakash	Pharmaceutical Analysis	Encapsulated bioactive nutraceutical formulation and its pharmacokinetic evaluation in animal models	01.07.2019	19PLT006
64.	Mr. Asem Veeves Singh	Dr Anand Vijaya Kumar	Pharmacology	Impact of diabetes mellitus on memory	01.10.2019	19PPT037
65.	Mr. Nunavath Raja Shekhar	Dr N Krishnaveni	Pharmaceutical Analysis	Development and validation of analytical methods for the quantification of synthetic analogues viz., impurity profiling in herbal formulations	01.10.2019	19PPT033
66.	Mr. Deepak V S	Dr Praveen T K	Pharmacology	Modulatory effects of Orientin on Nrf2-ARE, PI3K/Akt, JNK-ERK1/2 and TLR4/NF-kB pathways: A possible anti-	01.10.2019	19PPT034
67.	Mr. PullaPrudvi Raj	Dr. B. Gowramma	Pharmaceutical Chemistry	Design, synthesis and biological evaluation of some novel chemical entities as PARP1 inhibitors	01.10.2019	19PPT036
68.	Dr. Lalramengmawii	Dr P R Anand Vijaya Kumar	Pharmacology	Comparative study on effect of antidiabetic drugs on anxiety, depression and cognition in diabetic patients	01.01.2020	20PPT001
69.	Ms. Thimmareddy garijyothna	Dr S Divakar	Pharmacology	Drug discovery by network based drug repositioning to identify hits for Alzheimer's disease. An in-silico, in-vitro and in vivo study.	01.01.2020	20PPT002
70.	Dr. Ramya R	Dr S Ponnusankar	Pharmacy Practice	"Study on assessment of glycemic variability and complications in patients with diabete	01.01.2020	20PPT003
71.	Mr. PotlapatiVarakumar	Dr R Kalirajan	Pharmaceutical Chemistry	In-silicodesign, synthesis of Oxazine substituted anilinoacridines and evaluation of their anti-breast cancer activity	01.01.2020	20PPT004
72.	Mr. BhargavBhongiri	Dr R Vadivelan	Pharmacology	Formulation and characterization of isoflavones loaded nanodroplets for diabetic encephalopathy	01.01.2020	20PPT005
73.	Ms. BaliwadaAparna	Dr R Kalirajan	Pharmaceutical Chemistry	In silico design synthesis and anti breast cancer evaluation of some novel thiazine substituted anilinoacridines	01.01.2020	20PPT006
74.	Ms. AshwiniPrem Kumar	Dr A Justin	Pharmacology	"In silico structure based design, synthesis and evaluation of novel glitazones for PGC-1 α activation via PPAR- γ in Alzheimer's disease"	01.01.2020	20PPT008
75.	Ms. Anjali Singh	Dr Afzal Ajam	Pharmaceutical Chemistry	Design and synthesis of novel MurF inhibitors as potent antibacterial agents	01.07.2020	20PPT009
76.	Mr. Sathish R	DrGomathySwaminathan	Pharmaceutical Chemistry	Evaluation of neuroprotective effect of heterocyclic compounds as P2x7 receptor antagonists	01.07.2020	20PPT010
77.	Ms. KoppulaJayanthi	Dr Afzal Ajam	Pharmaceutical Chemistry	Design and synthesis of some anti bacterial agents targeting thymidylate kinase	01.07.2020	20PPT011

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
78.	Mr. Syed Suhaib Ahmed	Dr V Senthil	Pharmaceutics	Biological synthesis of nanoparticles for treatment of colon cancer	01.07.2020	20PPT012
79.	Mr. RamkishanJatoth	Dr S P Dhanabal	Pharmacognosy	A novel polyherbal formulation enhanced immunobooster and Standardization of siddha based polyherbal formulation	01.07.2020	20PPT013
80.	Mr. Mohammad Zubair Baba	Dr S Gomathy	Pharmaceutical Chemistry	Structural virtual screening and evaluation of keap-1 inhibitor as a potential agent for Parkinson's disease	01.07.2020	20PPT014
81.	Mr. EmdormiRymbai	Dr S Divakar	Pharmacology	Molecular morelling and Identification of Selective Estrogen Receptor Beta Agonist for Breast Cancer and Neurodegenerative Diseases	01.07.2020	20PPT015
82.	Ms. Deepa S	Dr S Divakar	Pharmacology	Targeting androgen receptor to evaluate its role and to identify selective modulator for type 2 diabetes mellitus	01.07.2020	20PPT016
83.	Mr. Jagdish Chand	Dr S Gomathy	Pharmaceutical Chemistry	Design and synthesis of selected heterocyclic moieties as anti- parkinson's agents targeting SIRT3 enzyme	01.07.2020	20PPT017
84.	Mr. KondrapuPydiraju	Dr B Gowramma	Pharmaceutical Chemistry	Structure based virtual screening to identify and evaluation of PARP1 inhibitor as potential anti cancer agents	01.07.2020	20PPT018
85.	Ms. R Sangamithra	Dr SN Meyyanathan	Pharmaceutical Analysis	Chiral separation and stability indicating assay methods of enantiomeric drugs by HPLC and LC/MS	01.07.2020	20PPT019
86.	Mr. Aravindanathan V	Dr K Gowthamarajan	Pharmaceutics	Investigation of material characters to optimize the dosage forms	01.07.2020	20PPT021
87.	Mr. Kannan R	Dr R Kalirajan	Pharmaceutical Chemistry	Identification and evaluation of potential inhibitors for SARS – CoV-2 target proteins	01.07.2020	20PPT022
88.	Mr. J Ramesh	DrB.Babu	Pharmaceutical Analysis	Development and validation of stability indicating methods of anticancer drug	01.07.2020	20PPT023
89.	Ms. Yasmin Naaz	DrB.Babu	Pharmaceutical Analysis	A stability indicating analytical method for anti-viral drugs	01.07.2020	20PPT024
90.	Mr. MurthannagariVivek Reddy	Dr GNK Ganesh	Pharmaceutics	Understanding the challenges and opportunities towards effective pharmaceutical product life cycle management	01.10.2020	20PPT027
91.	Ms. Jain Nishakumari	Dr K Gowthamarajan	Pharmaceutical Chemistry	Investigation and improvement of bioefficacy	01.10.2020	20PPT028
92.	Ms. AnandhaJothi D	Dr SN Meyyanathan	Pharmaceutical Analysis	Stress degradation analysis of pesticide residues in fruits and vegetables of plain areas of Tiruppur by LC-MS-MS	01.10.2020	20PPT029

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93.	Mr. Rajagugu A	Dr Rajesh Kumar	Pharmaceutical Biotechnology	Genome mining approaches for the identification of secondary metabolite biosynthetic gene clusters in microbes	01.10.2020	20PPT030
94.	Ms. Amritha C K	Dr S Divakar	Pharmacology	Identification of Nrf2 antioxidant response element (ARE) pathway activators for the potential treatment of Parkinson's disease	01.01.2021	20PPT026
95.	Mr. Putta Vijay Kumar	Dr. P. R. Anandvijaykumar	Pharmacology	Impact of Lipid Profile on Mild Cognitive Impairment, than Short Term Memory, Executive Memory in patient with Type 2 Diabetes.	01.01.2021	21PPT002
96.	Mr. UmairWahedi	Dr. S. Gomathy	Pharmaceutical Chemistry	Design and biological evaluation of RAGE inhibitors for the treatment of Parkinson's disease	01.01.2021	21PPT003
97.	Ms. Sharumathi S. M	Dr. M. Deepalakshmi	Pharmacy Practice	Trigger tools based detection of adverse drug reactions in a tertiary care teaching hospital	01.01.2021	21PPT004
98.	Ms. Bhavatharani S	Dr. M. Deepalakshmi	Pharmacy Practice	Dosage regimen optimization using pharmacogenomics and pharmacometric approach	01.01.2021	21PPT005
99.	Ms. Abisha Thomas	Dr Afzal Ajam	Pharmaceutical Chemistry	Design & synthesis of antibacterial drugs targeting D-alanine-Dalanine ligase	01.04.2021	21PPT007
100.	Ms. Tharani M	Dr. R. Vadivelan	Pharmacology	Development of isoflavone loaded chitosan-gelatin scaffold for diabetic wound healing	01.04.2021	21PPT008
101.	Ms. Harshitha Arun Kumar Pardhe	Dr. N. Krishnaveni	Pharmaceutical Analysis	Nutrikinetic assessment of iton: an essential micronutrient isolated from fortified and biofortified Indian based wheat cultivars	01.04.2021	21PPT009
102.	Ms. Saloni Sharma	Dr. K. Gowthamarajan	Pharmaceutics	Formulation development using the smart drug delivery system for the management of cancer	01.04.2021	21PPT010
103.	Rinu Mary Xavierca	Dr. M. Deepalakshmi	Pharmacy Practice	Optimal sampling strategies for therapeutic drug monitoring of selected drug using pharmacostatistical approach	01.04.2021	21PPT011

Part Time : 21

Sl. No	Name of the Scholar	Guide	Department	Title	Date of Registration	Regn.No.
1	Mr. Ashok P	Dr. S. N. Meyyanathan	Pharm. Analysis	In vivo animal studies of poorly water soluble anti hypertensive drugs using nanotechnology	01.07.2015	15PPT015
2	Mr. Sujith Kumar K	Dr. V. Senthil	Pharmaceutics	Drug recall procedures in BRICS countries, GCC countries and United States (USFDA): A comparative study	01.01.2015	15PPT004
3	Ms. Asha Spandana	Dr. N. Jawahar	Pharmaceutics	Brain Targeted nanoparticulate drug delivery system for parkinson's disease	01.07.2016	16PPT003
4	Mr. Senthilkumar M	Dr B Gowramma	Pharmaceutical Chemistry	Formulation development of Modified Release Dosage form for improving clinical outcomes	01.01.2018	18PPT004
5	Mr. Sellasenthil M	Dr K Gowthamarajan	Pharmaceutics	Comprehensive Harmonized regulatory approaches for premarket and post market phase of medical devices including in vitro diagnostic medical devices	01.04.2018	18PPT009
6	Mr. Nagaraj B S	Dr S Jubie	Pharmaceutical Chemistry	An in-silico drug repositioning approach of identification of drug candidates for breast cancer therapy	01.07.2019	19PPT031
7	Mr. Karthik R	Dr N Krishnaveni	Pharmaceutical Analysis	"Quantitative analysis of selected anti-epileptic drugs and their metabolites in human plasma by UPLC-Mass spectrometry"	01.07.2019	19PPT029
8	Mr. Sirajudeen M	Dr GNK Ganesh	Pharmaceutics	Optimizing the Dosage Regimen of Selected Cardiovascular Drugs by Pharmacometric Approach	01.07.2019	19PPT021
9	Mr. Jayakumar C	Dr. K. Gowthamarajan	Pharmaceutics	Use of statistical approach for the development of pharmaceutical formulations	01.04.2016	16PLM004
10	Mr. Shiva RamaKrishnan B	Dr MJN Chandrasekar	Pharmacology	Molecular Insights of 5 amino salicylic acid for wound healing potential	01.07.2017	17PPT003
11	Dr. G K Sadagoban	Dr Arun K P	Pharmacy Practice	"A Study on the Outcome Measures in Type 2 Diabetes Mellitus – Pharmacoeconomic and Pharmacometric Approach"	01.10.2017	17PPT004
12	Dr. SwathiSwaroopoBorra	Dr Arun K P	Pharmacy Practice	A study on influence of genetic polymorphism of the organic anion and cation transporters on the pharmacokinetics / pharmacodynamics of substrate drugs – A population approach.	01.10.2017	17PPT005

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13	Mr. Arun R	Dr K Gowthamarajan	Pharmaceutics	Patient Centric Personalized drug delivery system	01.04.2018	18PPT007
14	Dr. Keerthana C	Dr K P Arun	Pharmacy Practice	Dosage Optimization of Gentamicin and Amikacin in South Indian Paediatric Population- A Pharmacometric Approach	01.04.2018	18PPT008
15	Mr. Saravanan J	Dr Praveen T K	Pharmacology	Possible beneficial effects of farnesol and its derivatives in the prevention and treatment of Parkinson's disease	01.10.2018	18PPT027
16	Mr. J JeyaramBharathi	Dr A Justin	Pharmacology	Pharmacological screening of Trk receptor agonists in Parkinson's Disease	01.07.2019	19PPT020
17	Ms. S Priyadharshini	Dr S Jubie	Pharmacognosy	"ER α specific anti-proliferative effects of phytoestrogens and their semi-synthetic analogues"	01.01.2020	20PPT007
18	Mr. Sudhakar K	Dr K Gowthamarajan	Pharmaceutics	Formulation development of ophthalmic drug delivery system	01.07.2020	20PPT020
19	Ms. Kopperundevi R	Dr MR Jeyaprakash	Pharmaceutical Analysis	Development and Validation of analytical methods for the quantification of orphan drugs in bulk and pharmaceutical dosage form.	01.10.2020	20PPT025
20	Mr. Karthic M	Dr S N Meyyanathan	Pharmaceutical Analysis	Development and Validation of stability indicating liquid chromatographic methods for anti-viral drugs in bulk and finished products.	01.10.2020	20PPT026
21	Mr. Alin Bose J	Dr. R. Rajeshkumar	Pharmaceutical Biotechnology	Insilico discovery of small molecules to target apoptotic activation pathway in cancer	01.01.2021	21PPT006

**Technology Transfer to
M/s. Tablets (India) Pvt. Ltd, Chennai**



Recognition

Bharat Rathna Atal Bihari Vajpayee Award, For Innovation 2017
by Re: Think India, a National Think tank on May 21, 2017



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