



**MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES**
MANIPAL
(A constituent unit of MAHE, Manipal)

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The most sought-after for pharmaceutical education and research

Ad Meliora

a biannual newsletter



Programs: DPharm | BPharm | MPharm | PharmD | PharmD (PB) | Doctoral



Pharmacy and Pharmacology

150-200



College Events

February 8: Awards and Annual Day

The 57th Awards and Annual day was special this year. The MAHE leadership lauded Principal, Dr C Mallikarjuna Rao and his team for accomplishing the targets of 2020 in 2019 itself after he presented the annual report. Dr Thimmapa Hegde, an eminent neurosurgeon, based in Bengaluru, spoke on four theories of living which were Life, Live, Learn, and Legacy. Dr Hegde opined *“Live life in the present moment. Learn from the lessons that life teaches you. Leave behind a legacy which may prove fruitful for the coming generations.”*



Dr Devendra Arora (Senior Lecturer, Academic staff, School of Pharmacy and Pharmacology, Griffith University) received the distinguished alumnus award. He was felicitated by Pro Chancellor, Dr H S Ballal; Vice Chancellor, Dr H Vinod Bhat; ProVice Chancellor, Dr PLNG Rao; Registrar, Dr Narayana Sabhahit and Dr N Udupa, Director- Research. Ms Jessica Fernandes, (MPharm, Pharmaceuticals) received the prestigious Dr TMA Pai gold medal for outstanding research from Dr Thimappa Hegde.

Dr Anoop Kishore, Associate Professor of Pharmacology, Ms Ramya Ravi, Assistant Professor of Pharmaceutical Quality Assurance and Mr Venkatesh Kamath, Assistant Professor, Senior scale of Pharmaceutical Biotechnology bagged the “Good Teacher Awards”.

Dr Srinivas Mutalik, Professor and Head, Department of Pharmaceutics received “Teacher of the Year” award. Supporting staff Mr Divakar Shettigar, Senior Laboratory Technician, Department of Pharmaceutics and Mr Nagesh Nayak, General Duty

Worker, Office, received “Good supporting staff” awards from Dr Narayan Sabhahit, Registrar, MAHE, Manipal.

Undoubtedly, MCOPS would be in the top 100 of QS ranking with this stellar performance, exclaimed Dr Vinod Bhat.

Masters of Ceremony were Ms Ramya Ravi and Ms Athira R Nair, Assistant Professors, Department of Pharmaceutical Quality Assurance. Endowment awards, Travel grant awards, PRAISE Awards, and I2C Awards were presented to the awardees during the function.

February 8: MCOPS Golden Jubilee Commemoration lecture

Dr Thimappa Hegde, Director, Narayana Institute of Neurosciences, Bengaluru delivered a talk themed, “Breakdown to breakthrough”. Dr Hegde commenced with a motivational quote of Dr APJ Abdul Kalam. He briefed upon his life experience and achievements as a neurosurgeon. Sharing anecdotes with the audience, Dr Hegde percolated the message of being happy in tough times too.



Dr Mallikarjuna Rao, Principal, addressed the gathering and gave a background of the golden jubilee commemorative lecture. Dr Avinash Shetty, Medical Superintendent, Kasturba Hospital, was the Chairman and Dr Sreedhar, Faculty member, Department of Pharmacy Management, was the Co-Chairman of the session.

Dr Thimappa Hegde was felicitated by the Registrar, Dr Narayana Sabhahit and Dr N Udupa, Director-Research (Health Sciences). Ms Ramya Ravi, Assistant Professor, Department of Pharmaceutical Quality Assurance, compered the program.

Staff Achievement

9 February 2020: Professor's expedition to Antarctica

Dr Krishnamurthy Bhat, Professor, Department of Pharmaceutical Quality Assurance successfully executed the 39th Indian Scientific Expedition to Antarctica for the project "Pharmaceutical and Personal care products in the adjacent sea waters near the Bharati Station, Larsemann Hills, East Antarctica".



Student Achievement

February 20-22: Woman Scientist Award

Ms Reema Narayan, Research Scholar, Department of Pharmaceutics received "Woman Scientist Award" at International Conference on Advances in Pharmaceutical and Health Sciences (ICAPHS 2020) held at NITTE University. She presented her paper titled "Development of risperidone liposomes for brain targeting through intranasal route".



Reema is pursuing her PhD under the guidance of Dr Usha Y Nayak, Associate Professor, Department of Pharmaceutics, MCOPS, and Professor Sanjay Garg, University of South Australia, Adelaide.

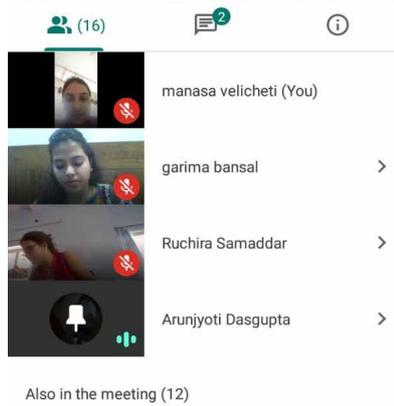
June 23-24: First place for oral presentation

Pooja Gopal Poojari, Research Scholar, Department of Pharmacy Practice bagged the first place for the oral presentation titled, "Consumers and practitioners' perspectives on challenges to patient prescribed second-generation antipsychotics metabolic monitoring in severe and complex mental health: Findings from multicentric qualitative study from South India". Pooja presented her paper in the Online International Conference on Recent Advances in Child Psychiatry held by the Department of Psychiatry, Chettinad Hospital and Research Institute, Kelambakkam, Tamil Nadu. She is pursuing her PhD under the guidance of Dr Girish Thunga, Faculty member, Department of Pharmacy Practice.



Webinars

May 9: Students of the Department of Pharmacy Management had an interactive webinar with department alumnus Mr Arunjyoti Dasgupta.



During his interaction, Arunjyoti encouraged the students to upgrade their knowledge, acquire new skills, and enroll for value-added courses that would help them to stay relevant in the biopharma industry. Arunjyoti also gave an overview of competitive intelligence, probable interview questions, Health Economics and Outcomes Research, business analytics, and forecasting. The discussion that lasted for about an hour and a half was well received by students. Look forward to having him for more discussions/webinars in the future.

May 16: The Department of Pharmacy Management hosted an interactive webinar with department alumnus Mr Vidhan Chandra Roy.



Students were given a situation related to marketing case in advance for discussion. During the discussion, Vidhan emphasised on important qualities to be developed for being a successful marketing professional. Vidhan also explained how to write a product monograph and described the monograph in a crisp and presentable form. MCOPS looks forward to having him as a guide/mentor.

June 20: Mr Arpit Patel, Marketing Manager, Roche, Mumbai, and alumnus of the Department of Pharmacy Management had an interactive webinar on the topic “Product Management”, with the department students.



During his interaction, Arpit explained about roles, responsibilities and skills of product managers. He also narrated as to how to craft a resume for the role of a product manager and a few practical tips to crack the product manager interview. The students were given an overview of a brand plan and day-to-day work involved of a product manager citing his personal experience. Students had a good interactive session with Arpit and was much appreciated.

Guest Lectures

January 23: The Department of Pharmaceutics and Manipal-Government of Karnataka Bio-incubator, MAHE jointly organised a guest lecture on “Biological Drugs”. Dr Sudhakar Bangera, Managing Partner, AILEEN Clinical Research Services, Hyderabad was the speaker. Dr Bangera’s talk provided ideas, plans to work on biological drugs, and a deep understanding of regulatory requirements to launch a product.



The major aspects covered were – Regulations, Ideation, Guidance on Clinical Trials, and Guidance on Developing a Marketable Product.

February 13: Dr Christer Hogstrand, Professor, Diabetes and Nutritional Sciences Division, King's College London visited the institute and interacted with the Heads of various departments. He discussed the role of zinc and other trace metals in biology and disease. The team discussed the possibility of having collaborative research and a joint PhD in the areas of role of trace metals in biology.



February 22: The Department of Pharmaceutics hosted a guest lecture on "Recent Advances in Oral Solids Drug Delivery". The speaker for the session was Dr Venkatesh M, Director and Delivery Manager, IPDO, Dr Reddy's Laboratory, Hyderabad. Recent advances in the area of protein and peptide delivery via oral route were discussed. Dr Venkatesh emphasised on the application of continuous manufacturing in the development of solid oral dosage forms.



He cited many recent drug delivery technologies and products developed in this area for the delivery of various drugs and macromolecules.

February 28: Mr G Basavaraja, Regulatory Submissions Assembly-Senior, Global Regulatory Platforms and Delivery, R and D, GSK, Bengaluru gave an overview of the Regulatory Affairs,

briefing on the history of regulatory publishing. He deliberated on lifecycle management, Electronic submissions, Basics of eCTD Submission, Nees. The speaker provided insights on eCTD validation and Tools used for Publishing and Validation. Finally, Mr Basavaraja, concluded the session by a demonstration of eCTD Xpress software followed by a Question-Answer session to widen the horizon of students' knowledge. Dr Sudheer Moorkoth, Head, Department of Pharmaceutical Quality Assurance, and Professor Dr Krishnamurthy Bhat felicitated the speaker.



March 7: Mr Kasi Valaparla, Associate Analyst, Novo Nordisk, Bengaluru was invited as a resource person to deliver a lecture by the Department of Pharmaceutical Quality Assurance. He spoke on the requirement of regulations in Pharma industries with special reference to its impact on the quality, safety, and efficacy of the product. Mr Valaparla provided valuable insights on dossiers, electronic and paper submissions. He elaborated on the validation and tools used for submission and of regulatory documents.



Seminars/ Workshops/ Conferences

Pre-Conference Workshop, CPCON 2020

January 10: The Department of Pharmacy Practice organised pre-conference workshops on three parallel themes - Medication Therapy Management (MTM), Applications of Clinical Pharmacokinetics inpatient care (PK), and scientific writing as part of 5th International Conference on Clinical Pharmacy (CPCON 2020).



Workshop on MTM was conducted by Professor Derek Charles Stewart, Qatar University Health and Dr Johnson George, Monash University, Australia. This workshop focused on medication review and the importance of MTM in improving the disease condition. The workshop on PK was mainly focused on pharmacokinetic data analysis. The session was handled by Dr Surulivel Rajan and Dr Vijayanarayana, Faculty of Department of Pharmacy Practice. The workshop on Scientific writing was conducted by Ms Bhavani and Ms Pranita, who are senior associate medical writers at Novartis. They focused on various types of publications and how a scientific writer plays an important role throughout the phases of Clinical Trial as well as the marketing of pharmaceuticals. Over 80 delegates from various pharmacy colleges at national and international levels attended the parallel sessions of the workshop.

January 11: International Conference on Clinical Pharmacy (CPCON) reached another milestone

The theme of the conference was “Innovative Approaches in Delivering Pharmaceutical Care”. Dr Mahadev Rao, Professor and Head, Department of Pharmacy Practice, welcomed the gathering and introduced the speakers. The conference commenced with a keynote speech by Professor Derek Charles Stewart, Qatar University Health. Dr Stewart spoke about “Managing inappropriate polypharmacy in older people”. Keynote speech was followed by the theme-based symposium on precision therapy. The resource persons for the symposium were Professor Jill Kolesar from the University of Kentucky, Scott Mosley from the University of Southern California (USC), and Dr Karthik Udupa, Professor and Head, Department of Medical Oncology, KMC Manipal. The symposium was followed by an open discussion on precision therapy. Mr Noam Morningstar-Kywi from the University of Southern California spoke on the dual degree program at USC. Post-lunch session began with a talk by Dr Saurabh Singh, Senior Group-head-regulatory writing and submissions, Novartis. He spoke on “overview of regulatory writing: how a regulatory writer contributes to an NDA/BLA submission”.



Dr Ashoojit Kaur, PCMH-restore health gave a speech on “A home-based primary care model based on physician-clinical pharmacist partnership”. Dr Johnson George from Monash University, Australia also delivered a lecture. The scientific sessions of the first day concluded with oral and e-poster presentations. The day ended with cultural events and gala dinner.

Day two started with e-poster presentations, followed by a talk on “Using health outcomes research to direct drug utilisation review activities for the Mississippi Medicaid Program” by Dr Benjamin Franklin Banahan, Professor Emeritus, University of Mississippi, USA. Dr AV Jayapala Reddy, Associate Vice President-Global Head, Hetero Biopharma delivered a talk on “Pharmacoeconomics of biosimilar: an emerging markets perspective”. The session ended with a scientific talk by Dr Ahsan Farooq, Zonal Medical Officer, Lifescan on “Medical affairs: an uncharted territory for clinical pharmacist”, followed by discussion. Over 500 delegates attended the conference from 44 different colleges, both national as well as international. Out of 189 abstracts presented in the conference, best abstract, best poster, and oral presentation awards were given to the delegates during the valedictory program.

January 16-17: A two-day seminar on “Spectral Interpretation of New Chemical Entities” was organised by the Department of Pharmaceutical Chemistry Sponsored by Lupin and Labindia Analytical Instruments Pvt Ltd. Dr Vedavathi Puranik delivered an inspiring talk on the topic “Beautiful World of New Chemical Entities in Medicine and Industry”. She spoke about various applications of X-Ray Crystallography and its principles.



Dr Puranik also enumerated various aspects required for the publication of data pertaining to the X-Ray Crystallography field. Mr Sandeep S Jagtap, Product Manager at Labindia Analytical Instruments Pvt Ltd, delivered a talk on the topic “Spectroscopy doesn’t have option”. He explained about NMR, 2D-NMR

and IR principles and emphasised upon their respective instrumentation very particularly.



Dr K K Srinivasan presented a talk on the topic “Distinctive spectral features of newer drug molecules” on 17 January. He explained about IR, ^1H NMR and ^{13}C NMR, and MS by showing several spectra of new drugs in the market.



He described each of the spectra and often asked questions about them and made the lecture very interactive, thus making the students learn to interpret the spectra. Dr Divyashree M S delivered a talk on the topic “Biological Macromolecules

separation and analysis". She discussed the principle and techniques of separating, specific do's and don'ts and distinguishing acceptable results of the analysis using Gel electrophoresis.



February 2: The ISPOR Manipal Student Chapter organised two workshops titled "Journey towards Entrepreneurship" and "Entrepreneurship Opportunity in Medical Field" during the annual fest- 'PharmaQuora'.



Dr Ramesh S Ve, Associate Professor and Head, Department of Optometry, Manipal Center for Health Professions emphasised innovation citing examples in medical devices and technology.



He stressed on taking up the entrepreneurial journey in Med Tech field. He explained the necessity to protect an idea and the need to patent it. Dr Ramesh elaborated on the medical device development cycle through his own entrepreneurial experience.

Dr Ishwar Haritas, Head and Coordinator at T A Pai Management Institute (TAPMI) centre for Entrepreneurship, explained about opportunities for a startup in the medical field. He motivated students to take up challenges in entrepreneurship. He detailed strategic planning in entrepreneurship and emphasised on the identification of unique ideas to pursue the same.

February 13: The Department of Pharmacology conducted a mini-workshop titled "Pharmacodynamics–Made Easy" A Workshop for Pharmacology beginners.



Dr Devinder Arora, Griffith University, Queensland, Australia, was the resource person. Over 35 delegates attended the session.



Dr Arora explained how these drug-receptor interactions are correlated with the pharmacodynamic parameters. This was followed by hands-on training to plot different dose-response

curves (DRC) on both normal as well as semi-log graphs. He concluded by explaining the mechanism of actions of *V cholerae* and *B pertussis* in Cholera and Whooping cough, along with the relationship between blood pressure and RAAS via different case studies.

March 9 – 21: Short-term course of AICTE sponsored Quality Improvement Program (QIP) on “Biotherapeutics” organised by Departments of Pharmaceutics, Pharmacy Management and Pharmaceutical Biotechnology was inaugurated on 09 March 2020 by the Chief Guest, Dr PLNG Rao, Pro Vice Chancellor, MAHE, Manipal.



Dr Rao addressed the gathering, emphasising the need for quality in research institutes and the bio-therapeutics product development. Dr Gautham Shenoy expressed his gratitude towards AICTE for providing financial support to conduct QIP every year.

January 6: Manipal Cancer registry



PharmD Interns, Ms Tanvi Bhalla, Ms Christi Sajee Varkey and Ms Rinkal Kotadia received copyright “Manipal Cancer registry-Hospital Based” for their thesis project under the guidance of Dr Kanav Khera,

Assistant Professor-Senior Scale and Dr Mahadev Rao, Head, Department of Pharmacy Practice.

The project is aimed to make a hospital-based cancer registry for Shirdi Sai Baba Cancer Research Institute (now Manipal Comprehensive Cancer Care Centre). It is an active collaboration with technical experts, Dr Karthik Udupa, Head, Oncology, KMC and Mr Balaji Badhrinarayanan, Assistant Professor and Dr Sudhakara Upadhya, Manipal School of Information Science. It has been taken up by the hospital authorities to build a more comprehensive platform.

January 28: MAHE and MCOPS organised District level Anti-doping program for teachers

The Manipal Academy of Higher Education and Manipal College of Pharmaceutical Sciences in association with National Anti-Doping Agency (NADA), Ministry of Youth Affairs and Sports, Government of India successfully organised one-day Anti-doping awareness program for Physical education teachers of primary and higher secondary schools of Udupi districts 2020 at Dr TMA Pai Auditorium, KMC, Manipal.



Nearly 400 physical education teachers from Udupi, Brahmavar, Karkala, Byndoor, Kundapura education blocks participated in the event. Sri Madhukar S, District Physical Education officer inaugurated the function while Guest of Honour, Dr Sharath Rao K, Dean, KMC, Manipal in his address mentioned various factors that compel athletes to fall prey to doping and how the National Anti-Doping Agencies helps to detect doping cases. Dr Rao also gave an account of Blood Doping and High Altitude training type Doping.

Dr H S Ballal, Pro Chancellor, MAHE in his presidential address, told that participation of students in sports along with academics will lead to the overall development of students and MAHE is being instrumental in providing facilities to students.



Dr Ankush Gupta, Project Officer, NADA was the resource person of the program. He stressed on topics like an overview of NADA, case studies, doping sample collection method, Anti-Doping laws etc. Dr Mallikarjuna Rao, Principal, welcomed the gathering. Dr Anup Naha, Associate Professor, was the Master of Ceremony for the function.

February 13 – 16: Translational Research Certificate Course 2020

The Department of Pharmacy Practice conducted the second batch of “Translational Research Certificate Course 2020”.



Dr Mahadev Rao, Professor and Head, was the course coordinator of the program. There were 16 speakers from MCOPS, KMC-Manipal, KMC-Mangalore, PSPH, Yenepoya University-Mangalore, National College of Pharmacy-Kozhikode and Medgenome-Bengaluru.



Thirty participants including faculty, PhD scholars and postgraduate students from pharmacy, health and biological sciences stream, participated and gained two credit points.



Days of Importance

February 11: World Cancer Day

On “World Cancer Day 2020”, the members of the community development committee, MAPS under the guidance of Faculty Advisor, Dr Kanav Khara, organised a talk for the students of MCOPS.

Dr Shirley C Lewis, Associate Professor and Consultant, Department of Radiation Oncology, KMC delivered a talk on “Cancer self-examination and awareness of common cancers”. Dr Shirley interacted with students and covered various topics like risk factors associated with cancer, self-examination for oral cancer and breast cancer, cancer prevention and helped students with a better understanding of cancer and myth surrounding cancer. More than 100 participants participated in the awareness program.

February 21: Mathribhasha Diwas

The theme of the Mathribhasha Diwas 2020 was “Celebrating our Multilingual Heritage”. The Chief Guest for the program was Ms Aditi Shastry Kallaje, Assistant Professor, Department of Humanities and Management, MIT, Manipal.



She shared her thoughts on her mother tongue and spoke on the importance of celebrating *Mathribhasha Diwas*, its significance, culture and also encouraged the learning of other Indian languages. She said that learning a new language is always an advantage and provides great opportunities in life. In Aditi’s view, everyone should be proud of their mother tongue, because it reflects one’s identity. She even added that most Indian languages have their variants based on its richness and cultural milieu.



Aditi concluded her talk by saying “Languages are for uniting us not for dividing”. Dr N Udupa, Director Research, Health Sciences graced the occasion. Ms Pooja Poojary, PhD scholar was the master of the ceremony.

Students’ Corner

January 22 – 25: Qalam 2020

The Manipal College of Pharmaceutical Sciences conducted an annual literary event – Qalam: Mightier than the sword – with an overt aim to develop and hone young innovative minds that view creativity as an embodiment of the world.



Day 1 began with the presidential debate, challenging the participants to take a strict stance on the current affairs of the country. Out of the nine teams, five made it through to the finals. The second event was the storybook quiz, that put both memory and accuracy of readers to a test.

Day 2 of Qalam was set in motion by conducting spell-bee, the prelims and finals were conducted on the same day. It was won by Vivek Nayak, Abhiram K, and Aditi Chikhale. Spell bee was followed by the second event, Story writing, capturing a glimpse of the writers’ vast imagination. The winners of this event were Saachi Mulki, Shatakshi Roy and Aishi Biswas.



On Day 3, the finals of the presidential debate were conducted with the hot topic of CAA. The winners of the event were Abhiram K and Shreya Jauhari, Rakshita and Ruchira, Subbulaxmi and Yashika. One same day, the finals for the Storybook quiz were also conducted and the winners of the event were Abhiram K, Shreya Jauhari followed by Manas, Anoushka, Ritik and lastly, Sanjana, Rachana and Neha. On Day 4 (25th January 2020), the final day of Qalam began with a valedictory ceremony. The chief guest for the event was Dr Neeta Inamdar,

who commended the literary interests of students and encouraged them to attain more.

The certificates were distributed to the winners and it was followed by the most beloved event of Qalam, Slam Poetry. The ambiance and the variety of poetry by several participants enthralled the audience, making them feel a rollercoaster of emotions. The event winners were Anushka Das, Swapn Ghai and Sankalp Ray. Finally, a delightful dinner was served at dusk, marking an end to Qalam 2020 but with a promising future.

February 1–2: PharmaQuora

The 7th edition of PharmaQuora - the Annual Academic fest organised by the Academic Council, MAPS, MCOPS was held during. The theme was "Tomorrow's Innovations For Today's Challenges". The fest was open to all students of health sciences this year. Over 450 participants registered and abstract submission for various competitions witnessed a significant increase compared to previous years, with a total of 110 abstracts for both the Research and Conceptual category. Apart from the curation of a website, the release of instructive videos on YouTube, and instituting the PharmaQuora information brochure, a new item - Compounding Event - was introduced that helped students get a glimpse into the real world of Community Pharmacy and Pharmacy practice in general. The entire fest was managed professionally, making PharmaQuora 2020 a huge success amongst students and faculty, and we wish to continue this lineage further.



February 12: ATHLOS 2020

The Manipal College of Pharmaceutical Sciences conducted Annual athletic meet ATHLOS 2020 on 12 February 2020, at MIT Grounds Manipal. The chief guest was Dr G Arun Maiya, Dean, Manipal College of Health Professions (MCHP), Manipal. The march past began with a salute to the chief guest by student contingents. Dr C Mallikarjuna Rao, Principal rendered the welcome address. Dr M Sreenivasa Reddy, Vice Principal, Dr Krishnamurthy Bhat, MAPS Secretary, Mr Narayana Prabhu, Assistant Director of Physical Education and Mr Vasudev R

Pai, Sports advisor, Heads of the Departments and faculty members of MCOPS were present during the inauguration. The athletic meet was declared open lighting the torch, followed by an oath-taking. Vote of thanks was proposed by Mr Vasudev Pai. Students of BPharm, D Pharm, Pharm D, M Pharm courses and research scholars participated in different sports events with true sportsman spirit throughout the day. The valedictory program commenced with the distribution of trophies, medals and certificates to the winners by the Principal. Winners of Athlos 2020 were PG students and runners- the First-year students.



PhDs Completed Under Pharmaceutical Sciences

Ms Aarti Abhishek Shah successfully defended her PhD viva voce on the dissertation titled, "Development of Nano-formulation of Resveratrol and its Assessment on Postmenopausal Osteoporosis" on 1st February. The Guide was Dr Yogendra Nayak, and Co-guide was Dr Usha Yogendra Nayak.



Mr Raut Sushil Yadaorao successfully defended his PhD viva voce on the dissertation titled, "Development of engineered nano-carrier delivery systems for oral administration of follicle stimulating hormone" on 22nd February. The Guide was Dr Srinivas Mutalik, The Co-guides were Dr Guruprasad Kalthur, KMC, Manipal and Dr Manjunath Joshi, SOLS, Manipal.

Mr Amol Baban Khade successfully defended his PhD viva voce on the dissertation titled, "Rational Design and Synthesis of Novel Diphenyl Ether Derivatives as Anti-tubercular Agents" on 26th June. The Guide was Dr G Gautham Shenoy, and Co-guide was Dr Vandana K E, KMC, Manipal.



Upcoming Events

Guest lectures via webinars

- 8 August- Dr Thanga Mariappan, Director-BMS, Bengaluru
- 24 August- Dr S Narasimha Murthy, University of Mississippi, USA
- 12 September- Dr Raghavendra Shetty, Navitas Life Sciences, Manipal
- 26 September- Mr Sathish Prabhu, IQVIA, Bengaluru
- 10 October- Dr T S Bairy, SDM College of Ayurveda, Udupi
- 31 October- Mr Vivek Hattangadi, Founder- The Enablers
- 7 November- Dr Johnson George, Monash Institute of Pharmaceutical Sciences
- 21 November- Dr Anu Appaiah, Scientist, CSIR- CFTRI

Editorial team

- C Mallikarjuna Rao, Principal and Professor, Department of Pharmacology
- Rekha R Shenoy, Associate Professor, Department of Pharmacology
- Usha Y Nayak, Associate Professor, Department of Pharmaceutics
- Angel Alex, Associate Professor, Department of Pharmaceutical Biotechnology
- Vijaya Bhaskar, Associate Professor, Department of Pharmaceutical Chemistry
- Bhavana Bhat, Assistant Professor, Department of Pharmacy Management
- Chandrashekar KS, Associate Professor, Department of Pharmacognosy
- Sonal Sekhar, Assistant Professor- Selection grade, Department of Pharmacy Practice
- Athira R Nair, Assistant Professor, Department of Pharmaceutical Quality Assurance