



MANIPAL COLLEGE
OF PHARMACEUTICAL SCIENCES
MANIPAL

(A constituent unit of MAHE, Manipal)



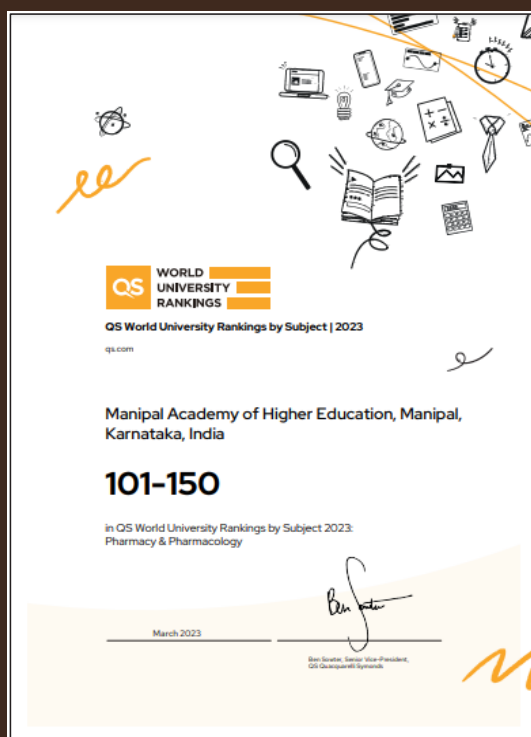
MCOPS-Diamond Jubilee e-Newsletter
Issue 4, April 2023

Newspill

Monthly once

MCOPS once again listed in the top QS World University Ranking!!

Manipal College of Pharmaceutical Sciences (MCOPS), the constituent unit of Manipal Academy of Higher Education (MAHE) and the sixty year old premier institution for pharmacy education and research in India is once again listed in the QS World University ranking 2023, by the subject Pharmacy and Pharmacology. The institute has retained its last year's ranking which is in the range of #101-150. MCOPS has achieved a phenomenal position in terms of academic excellence, infrastructure facilities, research and collaboration. Ever since its inception, the institute has never compromised with quality and has keenly focused on molding professional pharmacists suitable for various key roles in India and abroad.



Sir C V Raman Young Scientist State Award to Dr Srinivas Mutalik



Dr Srinivas Mutalik, Professor and Head, Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences, MAHE, Manipal has been awarded with the prestigious Sir C V Raman Young Scientist State Award in the field of

Life Sciences, instituted by the Government of Karnataka. He received the award on 23rd March 2023 at J N Tata Auditorium, Indian Institute of Science, Bengaluru from Dr C N Ashwath Narayan, Hon'ble Minister for Higher Education, Electronics, IT, BT and S&T, Government of Karnataka in the presence of Bharat Ratna Prof CNR Rao. Other dignitaries present at the function were Sri A S Kiran Kumar (Former Chairman of ISRO), Prof. Govindan Rangarajan (Director, IISc) and Dr E V Ramana Reddy (Additional Chief Secretary).

Dr Mutalik is an eminent researcher in the area of Novel Drug Delivery Systems and Nanomedicine. He has more than 200 publications in reputed journals and 7 patents to his credit. He has earned an h-index of 37, i10 index of 111, and 4500 plus citations for his publications through Scopus to demonstrate the quality of research that he carries out in MCOPS. He has received several research grants (more than INR 6 Cr in total as Principal Investigator) from various funding agencies and received several awards. Dr Mutalik is a PhD guide for more than 15 Research Scholars and more than 40 MPharm students. He has set research collaborations within the university and at national and international levels.

Team MCOPS wholeheartedly congratulates Dr Mutalik for this prestigious State Award of Government of Karnataka and wishes him all the best in the future endeavors!!!



DJC Lecture Series Inaugural Talk on 'Ayurvedic Biology' by Dr M S Valiathan

16 March 2023 : For celebrating the MCOPS Diamond Jubilee through commemorative lectures, this session was the curtain-raiser for the series of lectures that will follow throughout the year, held on 16 March 2023 at 4PM in PGR conference hall. The esteemed speaker of the inaugural lecture was Dr Marthanda Varma Sankaran Valiathan, Padma Vibhushan Awardee and First Vice-Chancellor of Manipal University, an illustrious Cardiac Surgeon of India with international recognitions as Fellow of Royal College of Surgeons of Edinburgh, Canada, George Washington and John Hopkins Universities. He has also been honored with 'Chevalier' by the French Government. Under his 25 years' leadership Sree Chitra Institute was notified by Prime Minister Morarji Desai as "An institution of National Importance". He has served as the President of the Indian National Science Academy (INSA) and National Research Professor of the Govt. of India. He treats Ayurveda as the mother of all sciences. As a National Research Professor, he completed a series of legacy volumes on the "Great Three" of Ayurveda Charaka, Sushruta and Vagbhata.

Dr Valiathan began with explaining the context of 'Ayurveda'- the eastern medical

practice in 'Biology' – a western science. He commemorated Dr Ram Nath Chopra's work, who is also the father of Indian pharmacology, as he led a team of scientists and performed experiments and research to understand phytopharmacology at labs in the Indian Institute of Tropical Biology in Kolkata; his research pioneered in phytotoxicology and inspired young minds into understanding the importance of plant products and derivatives which will have potential grounds in the future pharma markets. The speaker also mentioned that during the early twentieth century, scientists had taken the initiative to study plant taxonomy and study its pharmacological cations in the body; and in recent times, the industry has understood the importance of plant drug studies, and databases have been made to refer to these compounds which plants can synthesize.

Dr Valiathan addressed that the study of phytobiology takes a lot of patience, monetary help, years of research, and dedicated researchers who will put their best foot forward into the research—stating his experience of how Dr Chidambaram had supported his research interests and invested in the same. According to him, Ayurveda focusses on three vital aspects such as 'Prakriti' determination which helps to sort out the person's make up based on Vata, Pitta and Kapha, the use of 'Rasaayan' to modulate bodily functions and treat illnesses, and Panchakarma treat even conditions like obesity, diabetes etc. The program concluded with the felicitation of the esteemed speaker by AVM (Dr) Dilip Chandra Agarwal, Dean of Manipal College of Medical Sciences (MCOMS) Nepal and the CEO Manipal Education and Medical Group (MEMG), Nepal, Dr C Mallikarjuna Rao, Principal, MCOPS and Dr Krishnamurthy Bhat, Vice Principal, MCOPS.



Diamond Jubilee Celebrations Lecture Series

Introductory Lecture



'Ayurvedic Biology'



by

Dr. M. S. Valiathan
National Research Professor
Manipal Academy of Higher Education
Manipal, Karnataka
India - 576104

Date: 16th March 2023

Time: 4.00 p.m.

Venue: Dr. PGR Conference Hall, MCOPS

Link for viewing: <https://www.youtube.com/watch?v=vXRElhgk>



**First Lecture of DJC Lecture Series by
Dr D Srinivas Reddy, Director, CSIR-IICT,
organized by Dept of Pharmaceutical
Chemistry, MCOPS**

23 March 2023 : Department of Pharmaceutical Chemistry, MCOPS conducted the first DJC commemorative Lecture of the DJC lecture series on 23 March 2023 at 11.30 AM in PGR lecture hall, MCOPS. Dr D.Srinivas Reddy, Director, CSIR-IICT, Hyderabad, Telangana delivered the talk on "Role of Chemistry in Drug Discovery Process: A Few Case Studies Based on Natural Products". Dr D Srinivas Reddy is a renowned personality in the industry; he is the director of the Council of Scientific and Industrial Research, Indian Institute of Chemical Technology (CSIR-IICT). He was also a JC Bose Fellow at the CSIR-IIM Jammu and also a senior scientist at CSIR-Pune.

Dr. Reddy shared his vast knowledge in natural products drug discovery projects carried out under his guidance. He discussed various steps involved in the total synthesis of certain natural products like Licogliflozin, used for non-alcoholic steatohepatitis treatment and natural antibiotic Hunanamycin A as anti-salmonella agent and the synthesis and separation techniques for each of the 8 different natural isomers under study. He also shared details of few natural products' synthesis that have societal use and how his research team was successful in isolating the pheromones from male mealybug and synthesising them too.



More than hundred participants involving post graduate students, research scholars and faculty members of the various departments of MCOPS attended and got benefit from his lecture. The event was meticulously conducted by the HOD, Dr. Suvarna G Kini.



DJWorkshop 1: "Quality and Regulatory Compliance of Pharmaceuticals -An Overview."

As the presentation progressed, Mr Ratish discussed the role of an auditor, who helps to ensure quality compliance to the standards. Some common mistakes made while implementing GAMP or audit trials include language barriers, lack of awareness, training, and an unfriendly system for the employee. Mr Ratish also mentioned the product recall trends and the order in which products getting recalled in the last five years. The presenter concluded his work by explaining the difference between qualification and validation.

The afternoon session for the workshop was addressed by Ms Sanyukta Tarode, Regulatory Specialist-GlaxoSmithline Pvt. Ltd., Bengaluru, who elaborated on the topic "Regulatory Submissions and Management". She is currently serving as a Regulatory Specialist in GSK, Bengaluru. Ms Samyukta

has handled the Submissions for developed and developing nations and also worked on National, Centralized, MRP, DCP submissions which include responses to queries, variations, renewals, PSUR's, MAA and various other submissions for European Union and MHRA. She also has experience with Publishing (eCTDXpress, Publisher), validation (Lorenz e-Validator) and other tools like ISI toolbox required for document and submission-level publishing. Apart from professional activities, Ms Samyukta has been in the lead roles of Toastmasters International since 2020. Her talk started with a detailed mentioning of different sections of regulatory departments in industry. She also mentioned the modules of CTD, specifically stressing module three, which includes Quality. The various components of CTD modules and CMC were also discussed in detail.

The final section of the workshop was handled by Dr. Ramya Ravi, Department of Regulatory Affairs and Management, who took a hands-on live NDA/ANDA experience on PharmaReady eCTD & e-DMS Submissions Software. Dr Ramya Ravi started by introducing the delegates to the software. Electronic common technical document: the eCTD is the standard format for submitting applications, amendments, supplements, and reports to FDA's Centre for Drug Evaluation and Research (CDER) and Centre for Biologics Evaluation and Research (CBER). The presenter also mentioned the various steps involved in the operations of the eCTD software, navigation through the software, creating dossiers, attaching to each modules and steps involved in validation was discussed. All the sessions were interactive and was successfully concluded with gifting token of appreciation to the speakers and certificates to all the registered participants.

Elite Alumni Column 'Reliving' my days at MCOPS!



Remembering the time I spent at Manipal is something that comes to me easily. I completed my degree in Masters in Pharmaceutical Marketing Management in 1994, but it feels like it was yesterday. It was the

great Benjamin Franklin who once said, "Tell me and I forget. Teach me and I remember. Involve me and I learn." This is the quote that comes to mind when I remember the amazing faculty at MCOPS, who were able to involve me fully into every course and in turn shape me into the man I am today. My professors and guides always engaged me and challenged my thoughts and ideas and helped strengthen my mind to be ready for the competitiveness of the real world. For that time, the course in itself was ahead of its time but fast forward, I would not have asked for much better option

The campus provided us with great facilities and a fantastic environment to get a World-class immersion, which encouraged me to not only stay sharp in mind, but also fit in body. It is another valuable lesson that I follow even to this day. In my journey, I had the honor of meeting like-minded individuals who are my lifelong friends even to this day. I gained a lot of knowledge by sharing my ideas and interacting with students of many disciplines across the campus through various extracurricular activities.

I currently hold the position of a Corporate Vice President & General Manager at Novo Nordisk, one of the world's largest company in Diabetes & Obesity care. My goal when I



entered the university was to use my abilities to make the world a better place. With the immense experience I took back from MCOPS, I can definitely say, today I have created better 'value' to the society that we serve. I also encourage all the future 'revolutionaries' of the university to have faith in themselves and the faculty, always strive to be the best version of yourselves, and you will flourish in everything you do in life.

Melvin Oscar D'souza
Corporate Vice President & GM
Novo Nordisk

Other Activities...

"Strategizing AMS in Clinical Practice" lecture series

14-17 February 2023 : Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, MCOPS conducted a lecture series on "Strategizing AMS in Clinical Practice" to enhance the learning experience, update the knowledge regarding antibiotics and support students in their clinical skills in Antimicrobial Stewardship program. The lecture series was conducted as one-hour session at 3 pm for four days during 14-17 February 2023. Dr. Mohammed Asif M, Scientist-C, Department of Microbiology, Kasturba Medical College, Manipal, an alumnus of the Department of Pharmacy Practice, MCOPS, expertly delivered all lectures. In the first lecture, he explained the mechanism of developing resistance in bacteria with examples of MRSA cases. He also taught the basics of antibiotic prescription writing. On the second day, he focused on sepsis and treating sepsis in adults and neonates. The third lecture discussed antibiotics' pharmacokinetic and dynamic features and the correct way to prescribe antibiotics. The final day was a Q&A

session, along with antibiogram, antibiotic policy, colistin resistance, and calculation of drug usage discussed. It was a very interactive lecture series, which motivated the students to ask more questions and clarify their doubts. The success of the event was reflected by the results of the pre and post-tests, with better performance of participants in the post-test. More than 40 participants from postgraduate and research scholars attended the lecture series.



MANDAL COLLEGE OF PHARMACEUTICAL SCIENCES
A LECTURE SERIES ON
STRATEGISING AMS IN CLINICAL PRACTICE
Venue - Seminar Room, Department of Pharmacy Practice
Speaker: Dr. Mohammed Asif M, Scientist C, Department of Microbiology, KMC, Manipal
13 to 17 February 2023
4-5 PM Everyday
FREE REGISTRATION
ONLY LIMITED SEATS ARE AVAILABLE
ORGANISED BY: PHARMACY LITERACY CLUB, CENTER FOR PUBLIC HEALTH PHARMACY, DEPT OF PHARMACY PRACTICE, MCOPS
SCAN THIS QR CODE TO REGISTER: [QR CODE]





Community outreach activities and medical camp at Gujjarbettu-Hoode region, Udupi

1 March 2023: Pharmacy Literacy Club (PLC), Centre for Public Health Pharmacy, MCOPS, in association with KMC hospital, Manipal, MCODES, Manipal and Chosen Generation Charitable Trust (R.), conducted a community outreach program on 1 March 2023 at Adarsh building, Hoode, Udupi. The program involved a free general health check-up and dental care along with health education regarding the importance of personal hygiene and the quality use of antibiotics. The function was presided over by the president of Jamate Islami Hind, Hoode, Mr Abdul Khadeer Mohidin, Panchayat member and Vice President of Sahiyath Educational Institute, Mr Mohammed Idris, and the Panchayat members, Mrs Kusuma and Mrs Jamiela Sadida. The student volunteers performed a street play on "Awareness of Antimicrobial Resistance." They even helped the residents with Pradhan Mantri Jan Arogya Yojana (PMJAY) card registration. The program was inaugurated with a short introduction by Mrs. Abigail, followed by a prayer by Ms Shreya Shenoy (V PharmD) and a beautiful rendition of "Jogada Siri Belakhinalli" by Ms Anagha Ramamurthy (PharmD-Intern). A pre-test and post-test based on questionnaires were held

before and after the skit to assess the impact of the act on the audience. Around 90 members of the community turned up and the students helped them with essential health education, dental care, and dermatology check-ups. The patients were provided with free medications, which were sponsored by Gautham Medicals, a unit of Gautham Agencies and Pharmaceutical Distributors, Udupi. The patients were provided medication counselling by pharmacy students of the Department of Pharmacy Practice, MCOPS. The event was successful, and the dignitaries and residents applauded the efforts and contribution of the club to educate the community members.

Community Outreach Programme
Organised by: Pharmacy Literacy Club, Centre for Public Health Pharmacy, MCOPS and Chosen Generation Charitable Trust (R.)

FREE MEDICAL CAMP
Skin and Dental Checkup

ACTIVITIES

- ▶ Educational talk on importance of personal hygiene
- ▶ Quality use of medications
- ▶ Street play on awareness of antimicrobial resistance
- ▶ PMJAY card registration

LOCATION: Adarsh building, Opp. Hoode Post Office, Udupi

DATE: 1 March 2023

TIME: 9:00 am- 1:00pm

Contact Info: Abigail +91-8105002007
Lipin +91-9582800236



DHR-ICMR Sponsored Workshop on 'Clinical and Translational Research for Precision Oncology'

29 March - 1 April 2023 Manipal College of Pharmaceutical Sciences, Kasturba Medical College, Manipal, and Manipal School of Life Sciences, MAHE, Manipal have organized a workshop on 'Clinical and Translational Research for Precision Oncology', sponsored by DHR-ICMR, from 29 March to 1 April 2023 at the Department of Medical Education, MAHE.

Dr Mahadev Rao, Professor and event Convenor, Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences, along with the organizing secretaries, Dr Karthik S Udupa, Professor and Head of Medical Oncology, KMC, Manipal, Dr Shama Prasada K, Professor and Head, Department of Cell and Molecular Biology, Manipal School of Life Sciences and Dr Rama Rao Damerla, Assistant Professor, Department of Medical Genetics, KMC, Manipal have received a workshop grant from the Indian Council of Medical Research (ICMR), Government of India, New Delhi, INDIA.

The workshop's inaugural function was conducted on 29 March 2023 at 10.15 AM. Dr Mahadev Rao welcomed the gathering. Dr Karthik S Udupa gave an overview of the workshop and highlighted that this workshop is meant to disseminate knowledge in the area of translational research through a multidisciplinary and multi-institutional integrated learning approach so that the researchers are better equipped to integrate information from multiple domains and conduct independent or team-oriented research, thereby contributing to improved national and global health.



Guest of Honor of the program, Dr Padmaraj Hegde, Dean & Professor of Urology, Kasturba Medical College, Manipal, in his address mentioned the importance of precision medicine for deriving maximum clinical benefit to patients. Guest of honor Dr C Mallikarjuna Rao, Principal, Manipal College of Pharmaceutical Sciences, MAHE, addressed the gathering on the importance of translational research in bridging laboratory and clinical research. Dr. Shama Prasada K added his thoughts on the role of basic science knowledge in the field of comprehensive translational research. Dr Surulivel Rajan M, Head, Department of Pharmacy Practice, thanked the gathering. A total of 35 delegates including Faculties, PhD Scholars, and PG students from different institutes are participating in the workshop.



Athlos 2023

29 March 2023: Manipal College of Pharmaceutical Sciences conducted the Annual Athletic Meet ATHLOS 2023 on Wednesday 29 March 2023 at MIT Athletic Grounds Manipal. The inauguration was held at 9:00 am by the chief guest Dr Chef K Thirugnanasambantham, Principal, WGSMA, Manipal. The march past began with the salute to the chief guest by all MCOPS student contingents. Dr C Mallikarjuna Rao, Principal, MCOPS delivered the welcome address followed by chief guest address by Dr Chef K Thirugnanasambantham. Dr Jayesh Mudgal, MAPS Secretary, Dr Narayana Prabhu, Assistant Director of Physical Education, MAHE and Dr Vasudev R Pai, Sports Advisor, MCOPS, all the Heads of the Departments and faculty members of MCOPS were also present during inauguration program. The formal athletic meet opened by releasing the coloured balloons by chief guest followed by lighting of Olympic torch, Oath taking and declaration of the meet



open. Dr Pai proposed the vote of thanks. Students of MCOPS from all D Pharm, B Pharm, Pharm D, M Pharm programmes and research scholars participated in various athletic events with true sportsman spirit throughout the day. The valedictory programme commenced at around 5:30 pm with concluding remarks by Ayushi Dutta, Student Sports Secretary. All students and athletes present gathered for photo sessions by holding the Athlos 2023 banner.





Upcoming Events

- 01 April 2023 : MCOPS Diamond Jubilee Commemorative Workshop 2
- 08 April 2023 : MCOPS Diamond Jubilee Distinguished Lecture 2
- 29 April 2023 : MCOPS Diamond Jubilee Commemorative Seminar 1

Editorial Team

Newspill-April 2023 Editorial Team

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- Editor-in-chief: Dr Angel Treasa Alex
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ACADEMY of HIGHER EDUCATION
(Institution of Eminence Deemed to be University)