

MCOPS

A constituent college of Manipal University

The most sought-after for pharmaceutical education and research

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Ad Meliora

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EDITORIAL

Ad Meliora has stepped into its second year. Ever since the conception of newsletter, benefits have been reaped in disseminating college related activities. To our readers, we bring a cluster of events that occurred during this quarter. This issue covers the visits of eminent personalities, felicitation to staff and book release- to name a few. A quality improvement program was conducted for the benefit of pharmacy teachers. Readers can take a glimpse of the MCOPS annual day celebrations. Our alumnus, Dr. Shaival Rao has written about his COPS [Then College of Pharmaceutical Sciences] experience. Sports day took many faculty members by surprise. And of course, each year Pharmaquora is getting the best out of the students.

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FROM THE PRINCIPAL'S DESK

January to March quarter has seen a series of programs, be it the QIP, clinical pharmacy symposium, book release, etc. Key speakers from University of Mississippi and Griffith University attended the clinical pharmacy conference. Dr. Bhushan Patwardhan, Director, Interdisciplinary School of Health Sciences from Pune launched the Manipal Chapter of Society for Ethnopharmacology. It was quite a busy schedule, adequately balancing academics, research and other activities at MCOPS

I wish the students 'good luck' for their University examinations!

And the readers, pleasure in reading this issue of Ad Meliora



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EVENTS

Department of Pharmacy Practice organizes CPCON-2016:

January 8: A two-day Clinical Pharmacy conference on the theme, “Evolving role of clinical pharmacist in multidisciplinary healthcare settings”, was organised by Department of Pharmacy Practice, Manipal College of Pharmaceutical Sciences (MCOPS), Manipal University, on 8th and 9th January. The conference, with an overwhelming 700 participants, nearly 200 scientific presentations and 15 scientific sessions was also preceded by a two day pre-conference workshop on “Clinical skills and research methodology in Pharmacy Practice”.

Dr Narayana Sabhahit, Registrar, Manipal University raised the curtain by lighting the ceremonial lamp and delivering an inspirational inaugural



address. Dr. MK Unnikrishnan, Head of the Department, Pharmacy Practice, MCOPS delivered the welcome note. Dr. N. Udupa (Research Director, Manipal University) and Dr. Mallikarjuna Rao (Principal, MCOPS) presided over the inaugural session. Dr Andrew Davey and Dr Sohil Ahmed Khan of Griffith University, Australia, Dr Johnson George from Monash University, Australia, and Dr Rahul Khanna from University of Mississippi, USA were key speakers from overseas. Mr Chandrasekaran (Manipal Hospital, Bangalore), Dr Veerendra Chandrella (KMCH, Coimbatore), Dr Gabriel Rodrigues (KMC, Manipal), Mr Manish Kadam (TCS, Pune), Dr Mohamed Hisham (KMCH, Coimbatore) and Mr Suraj Madhavan (Paraxel International, Bangalore) presented the emerging trends in India. Dr Surulivel Rajan (Dept. of Pharmacy Practice, MCOPS), along with his students, presented a special session on Positive Action Plan for Pharmacy Practice with the launching of an online student-driven web – forum called “PAFPP” (www.pafpp.in).



Dr Anam Sohail (A. J. Hospital and Research Center, Mangalore) and Dr Mohammed Kazim Sheriff (Al-Ameen College of Pharmacy, Bangalore) won the

First and second prize for Oral presentations respectively. Ms Shambavi Ravichandar (PSG College of Pharmacy, Coimbatore) and Mr Mammen Paul (Al- Shifa college of Pharmacy, Malappuram) won the First and second prize for poster presentations respectively. Ms Siddhi Pramod Umarje (Poona College of Pharmacy, Pune) won the prize for the best case report.

The event concluded with an inclusive proposal for a Positive Action Plan for Pharmacy Practice in India. Dr. V Rajesh (Dept. of Pharmacy Practice, MCOPS) proposed the vote of thanks, acknowledging the support and cooperation of everybody who brought success to the CPCON-2016.

Book on Pharmaceutical Marketing and Management released

January 14: The 52nd publication of Manipal University Press, a book on Pharmaceutical Marketing and Management titled “Pharmaceutical Marketing Management” edited by Dr N Udupa, Director Research (Health Sciences), Manipal University and co-edited by Dr D Sreedhar, Associate Professor, MCOPS, Manipal University was released by Dr Raveendranath Nayak, Director, School of Management, Manipal University. Dr H Vinod Bhat, Vice Chancellor, Manipal University presided over the function.



“Aim to create new knowledge”, Pro-Chancellor exhorts in QIP Inauguration:

January 18: A 15-day AICTE-sponsored Quality Improvement Programme with the theme 'New chemical entities and Biosimilars: Strategies for design and development' was inaugurated by Dr. H S Ballal, Pro-Chancellor Manipal University in the presence of Dr. N Udupa, Dr. C Mallikarjuna Rao and Dr M Sreenivasa Reddy. Speaking on the occasion, Dr Ballal praised AICTE for the support provided for the knowledge up-gradation of the teachers. He applauded MCOPS for organizing such programs time to time. He invited the delegates to explore the facilities and opportunities in Manipal University. Dr C Mallikarjuna Rao welcomed the gathering. In his welcome address, he stressed upon the importance of continuing education and keeping the pace with the recent developments in pharmaceutical sciences.



The 15-day programme was coordinated and conducted by the departments of Pharmaceutical Chemistry, Pharmaceutical Biotechnology and Pharmacology. While lectures on recent advances were the features of the morning sessions, the afternoon sessions were entirely devoted to experimental demonstrations using new techniques and instruments. The guest speakers and faculty of the respective departments served as resource persons

in most cases. The research scholars and postgraduate students were involved in experimental demonstrations. The QIP had around 30 participants, drawn from pharmacy colleges around the country and from MCOPS.

Manipal Chapter of Society for Ethnopharmacology launched by Dr Bhushan Patwardhan

February 12: The Manipal Chapter of Society for Ethnopharmacology was inaugurated in a formal function held at MCOPS. Dr. N. Udupa was the convenor of the Manipal chapter of SFE. The local chapter was inaugurated by Dr. Bhushan Patwardhan, Director, Interdisciplinary School of Health Sciences, Savitribai Phule Pune University, Pune and Editor in Chief, Journal of Ayurveda and Integrative Medicine. Dr. K L Bairy, Professor, Dept. of Pharmacology, KMC Manipal and the President Manipal Chapter of SFE and Dr. C. Mallikarjuna Rao were present on the occasion. In his inaugural speech Dr. Bhushan Patwardhan underlined the importance of Ethnopharmacological research and associated benefits for the mankind as a whole. Prior to the inauguration Dr. K L Bairy, highlighted the aims and objectives of the SFE. He also explained the benefits for members of the society.

Society for Ethnopharmacology (SFE) Kolkata is affiliated to International Society for Ethnopharmacology UK. The society is working for the development and better utilization of natural and ethnic resources in the healthcare. The society aims at providing a common platform for traditional and modern medical practitioners and researchers to discuss and develop the ethnic practices. The Society has formed as many as four chapters in different geographical zones of India in order to execute its aim and propagate ethnic knowledge. Manipal College of Pharmaceutical Sciences (MCOPS) is a well-known center for pharmaceutical education and research with state of the art research and academic facilities. It has been working continuously in the area of herbal and traditional medicine apart from other research areas. Manipal University has started a center for integrative medicine to cater to needs of quality education and research in the alternative systems and to provide common platform for a holistic development. The Society for ethnopharmacology considered it apt to start a chapter in this conducive atmosphere of MCOPS and Manipal University under the stewardship of Dr. N. Udupa.

The Manipal Chapter of Society for Ethnopharmacology was thus declared open in presence of large audience from different disciplines and backgrounds.



Delegates from departments of Ayurveda, Yoga and Integrative Medicine, Manipal University; Muniyal Ayurvedic institute and SDM Ayurvedic college and Hospital; members of Rotaract, Manipal, Heads and Faculty of various departments of MCOPS were present on the occasion. The function was smoothly conducted by Ms, Shilpee, Research Scholar, Dept. of Pharmacognosy, MCOPS Manipal.

Manipal IPCs' Funded Golden Jubilee Commemorative Lecture held at MCOPS

February 12: An important annual event usually held around the Annual and Awards Day at MCOPS is the Golden Jubilee Commemorative Lecture. MCOPS has the unique distinction of conducting three Indian Pharmaceutical Congress here in Manipal. An eminent academician or a pharma industrialist is invited to deliver this lecture. This time Prof Bhushan Patwardhan, from Interdisciplinary School of Health Sciences, Savitribai Phule Pune University delivered the lecture. The title of the lecture was, "Moving away from drugs to formulation discovery".

Prof Patwardhan spoke eloquently on why formulation discovery should get precedence over single drug discovery. He said that many of the diseases are caused by polygenic changes and, therefore, drugs targeting single genes are bound to fail. Citing rofecoxib and troglitazone, he illustrated how these drugs failed to realize expectations. On the other hand, many formulations from herbal drugs have proved to be of immense value for treating chronic diseases. Dr J Venkata Rao (Professor and Head, Pharmaceutical Biotechnology) and Mr. P V R Chowdhary (Reader, Pharmaceutical Chemistry) moderated the programme as chairman and co-chairman respectively.



Curriculum Development Committee (CDC) meet

On **February 12**, a meeting of the Curriculum Development Committee of MCOPS was held in the presence of Dr Tadiparthi Ravikumar, Associate Director, Wockhardt. All the heads of departments of MCOPS took part in the meeting. The committee took charge of modifying the syllabi of pharmaceutical chemistry and quality assurance subjects to meet with the requirements of the industry. Head of pharmaceutical chemistry Dr Gautham Shenoy and Dr Krishnamurthy Bhat, Head of Pharma Quality Assurance made presentations. The meeting decided, after protracted discussion, to bring in effective changes in the curriculum to align with industry requirements.

MCOPS Alumni Meet

February 12: Leading the alumni meet was Dr T Ravikumar, Associate Director of Wockhardt, Aurangabad. He recalled his days in Manipal as a young pharmacy student. Other alumni introduced themselves and reminisced the old days in Manipal. They marvelled at the splendid growth of Manipal and its various institutions. In the end, they promised to meet again on another occasion.

Awards and Annual Day Celebrated at MCOPS



February 13: The 54th Awards and Annual Day of Manipal College of Pharmaceutical Sciences (MCOPS) was celebrated at KMC Greens in Manipal. Professor Bhushan Patwardhan, eminent scientist, Interdisciplinary School of Health Sciences, Savitribai Phule Pune University was the Chief Guest. Mr. Raghurama Bhandary, Drugs Controller of Karnataka was the Guest of Honour. From Manipal University, Vice Chancellor Dr H Vinod Bhat and Registrar Evaluation Dr P Laxminaryana Rao graced the occasion by their presence.

Speaking on the occasion, Professor Patwardhan lauded Manipal University as well as MCOPS for the excellent infrastructure and ambience available here. In his address, Mr. Raghurama Bhandary said that MCOPS should seek approval as a drug-testing centre as the college has all the required facilities. He also exhorted the students to take up research. Dr. Vinod Bhat expressed his happiness at MCOPS registering impressive growth year after year. The Principal Dr C Mallikarjuna Rao welcomed the gathering and, later presented the annual report of the college.

- Three alumni of MCOPS Dr. Tadiparthi Ravikumar (Associate Director, Wockhardt, Aurangabad), Dr Rekha Shenoy (Associate Professor, Pharmacology, MCOPS) and Dr Manthan D Janodia (Associate Professor, Pharmacy Management, MCOPS) were conferred with the Distinguished Alumni Award.
- Dr Josyula Venkata Rao bagged the Teacher of the Year award, instituted by Dr N Udupa, former principal of MCOPS, while Dr N Gopalan Kutty was honoured with Lifetime Achievement Award for contribution to teaching and the profession of pharmacy.
- Mr. P V R Chowdhary, Dr Angel Treasa Alex and Dr Vijaya Bhaskar received the Good Teacher Awards, instituted by Manipal University and selected by the students of Fourth Year BPharm, Second year BPharm and PharmD respectively.

- Mr Swapnil Dengale secured the coveted Dr. TMA Pai Gold Medal for research while Dr Yogendra Nayak received the award for Best Audio Visual Aid in Teaching.

Endowment Awards, prizes and certificates were given away to students for academic excellence. Ten research scholars bagged Travel Grants, instituted by Dr. N Udupa to enable them to attend conferences.

There was a variety entertainment programme staged by students, faculty and supporting staff.

Dr. R S Jayaprakash was the master of ceremonies for the formal function. Dr M Sreenivasa Reddy, Vice Principal proposed the vote of thanks.



Distinguished Alumni Awardees:
Dr Tadiparthi Ravikumar, Dr Rekha Shenoy, Dr Manthan Janodia



Dr N Gopalan Kutty, Life
Time Achievement
Award

Dr J Venkata Rao,
Teacher of The Year
Award



Good Teacher Awardees:
Mr PVR Chowdhary, Dr Angel Treasa Alex, Dr K Vijayabhaskar



Best Audio Visual Aid for
Teaching Award:
Mr Yogendra Nayak

Dr TMA Pai Gold Medal
for Research:
Mr Swapnil Jayant Dengale

The second phase of AICTE Sponsored QIP

February 15: The second phase of AICTE Sponsored Quality Improvement Program (QIP) with the theme 'Recent trends in Drug-Product Development, Phytopharmaceuticals and Analytical Techniques' was conducted during 15-27 Feb 2016. Dr N Udupa was the Chief Guest of the program and inaugurated the QIP by lighting the lamp and addressed the gathering. Dr C Mallikarjuna Rao, Dr M Sreenivasa Reddy, and Dr J Venkata Rao, Chairman, Continuing Pharmacy Education were present during the program. About 20 delegates from various institutions across the country participated. The inauguration was followed by scientific sessions. The second phase QIP was coordinated and conducted by departments of Pharmaceutics and Pharmacognosy. The lectures were delivered on formulation development for phase I studies in clinical trial followed by elaborately discussing the quality by design for development of formulation, advances in oral delivery, trends in self emulsion delivery technology, application of herbal medicinal products on male fertility preservation, pediatric formulations development, scope of phytopharmaceuticals in nutraceuticals and cosmetics etc, to name a few. All the participants took advantage of the brain storming sessions and learnt about formulation development from industrial point of view.

One Day Seminar on "Thrust Areas in Pharmaceutical Sciences – An Update"

March 6: One day Seminar on 'Thrust Areas in Pharmaceutical Sciences – An Update' was organized by Consortium of Manipal Progressive Pharmaceutical Professional Associations of Manipal College of Pharmaceutical Sciences (MCOPS) in association with Manipal University. The seminar was partially sponsored by Stempeutics Research Pvt. Ltd., Manipal.

The program was inaugurated by lighting the lamp in presence of the chief guest, Dr. Raviraja N Seetharam, Business Executive, Stempeutics and Dr. C. Mallikarjuna Rao. Dr. N. Udupa, Program Convener gave welcome address. Dr. Raviraja addressed the gathering by emphasizing recent research in pharmacy, present need/areas in drug discovery and development. The inauguration program was followed by the scientific session which included guest lectures by in-house speakers Dr Alex Joseph, Dr KB Koteswara, Dr Anantha Nagappa Naik, Dr KM Bhat, Dr Saleemullah Khan, Dr Angel Alex, Dr Manthan D Janodia, Dr Yogendra Nayak, Dr Pradeep Muragundi and Dr Surulivel Rajan. The program was concluded with the valedictory function and distribution of certificates to the participants by Dr N Udupa.



Department of Pharmacy Practice felicitates Dr. Ranjan Shetty

Students and teachers of department of pharmacy practice expressed their gratitude towards Dr. Ranjan Shetty, Professor and Head, Department of Cardiology, KMC, Manipal by felicitating him on the eve of his transfer to Manipal Hospital, Bangalore to take up new responsibilities there. Dr Ranjan Shetty was not only a mentor and motivator for the dept, but also a member of the extended family of pharmacy practice. He inspired the students to think beyond the traditional horizon of education and learning; said the student who hosted the felicitation event in his welcome note. Dr. M.K Unnikrishnan, Professor and Head, Department of Pharmacy Practice underlined the constant support and collaborations provided by Dr. Ranjan which not only paved way for a multidisciplinary care for the cardiac patients but also led to the learning opportunities for the students. Dr. Mallikarjuna Rao presented the appreciation memento to Dr. Ranjan and emphasized the need for a continued collaborations between the departments even in his absence. Dr. Ranjan thanked the students and staff of department of pharmacy practice for their support which helped him to climb the ladders of achievements during his tenure in Manipal and requested same to be continued in future too. Ms. Sangeetha, 4th year PharmD, delivered the vote of thanks.



STUDENT'S CORNER

Students and faculty being sporty at ATHLOS - Annual Sports Fest of MCOPS

A month long sports activities of MCOPS, Manipal, ATHLOS 2015-16 began on 25th of January 2016. Various indoor and outdoor games were special modalities



which came to an end on 01st March 2016 with athletics event. Dr. G K Prabhu, Director, MIT, Manipal was the chief guest of the day. The day began with a grand march past from students of various batches. Dr. C. Mallikarjuna Rao gave the welcome address which was followed by the chief guest's speech who also declared the meet open. Students of MCOPS who represented Manipal University in various sports events were felicitated by the dignitaries. Mr. Venkatesh Kamath, Sports secretary proposed the vote of thanks. Dr. Srinivasa Reddy, Dr. C.S Shreedhara, secretary, MAPS, Dr. Satish Mallya, Physical education Director and Dr. N. Udupa were also present on the dais. Various awards and prizes for different games were given away in the function. A total of 300 students participated in the inaugural function.

The athletic meet witnessed different games, like Running Race, Relay, High jump, Long Jump, Javelin and Shot put throw etc. Special games like hit wicket, catch the ball, lemon & spoon were arranged for the faculty members.

During the valedictory function, winners of various games received awards at the hands of Principal and other dignitaries. Third year students emerged as the overall champions followed by PG and staff combined who finished second.

PHARMAQUORA 2016, the Annual Pharma Fest Attracts Scientific Talent

The Academic Committee of MAPS organised the Annual Pharma Fest of Manipal College of Pharmaceutical Sciences 'PHARMAQUORA-2016' a festival to unearth the literary and scientific talents of students, on March 4th and 5th 2016. Not only students from Manipal, but out-station candidates too actively participated in this two-day event. Dr. RS Jeyaprakash (Faculty Advisor) and Ms Anila (Vice President, MAPS) co-ordinated the entire program.



Day one commenced with the inauguration ceremony in the MIT Auditorium. The Chief Guest was Dr Ullas Kamath, Dean of MMMC, MU. This was followed by a session on GRE. The scientific session commenced with the Oral Presentations in the afternoon. Students from various categories participated with immense enthusiasm.

Second day started with poster presentations which had hundred plus entries. In the afternoon, a session on 'How to write a CV' was conducted by Mr Praveen from Department of Commerce, MU followed by a workshop on 'Emotional Intelligence' by Dr Sudhakar Nayak, Head of Manipal Centre of Professional and Personal Development. Eminent alumni of MCOPS interacted with the students and clarified queries regarding career opportunities.

The event concluded with the Valedictory Programme where the winners of the Poster and Oral sessions were announced. All in all, the event is another success story in the book of MAPS' Student Council of 2015-2016.



Faculty Achievement

Dr Girish Pai K, faculty – Department of Pharmaceutics, received “First prize” for Scientific poster presentation held during National Health Care Management Conference on “HEALTHCARE: Challenges and Potential Breakthroughs” in SIESCOMS, Nerul, Navi Mumbai on 13th February 2016. The title of presented paper was “Development and evaluation of ocular inserts of sodium cromoglycate using combination of few biodegradable safe polymers”. The posters were evaluated by technical experts from academia, industry and corporate hospital namely, Dr Usha Padmanabhan (Haffkine Institute), Dr Abhilash Das (Reliance Life Sciences) and Mr Manas Kumar Labh (Seven Hills Hospital).



ALUMNI DIGEST

My overall experience with MCOPS is very positive. Classes in my program were a mix of different cultural people. My college experience is structured in a way that it gave me more freedom and control over what I have to do. It is great that being challenged by MCOPS' commitment to knowledge through critical thinking and creative inquiry, I will no doubt set and strive for new and higher goals than those of today. My future holds no limits and I consider MCOPS to be a great institution that can fuel my potential through its commitment to excellence.



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RESEARCH SPOTLIGHT

During the period of January to March 2016, various faculty members of MCOPS presented their research work in three national conferences and actively participated in twenty workshops. MCOPS keeps up the pace of research and publishes the findings in various national and internationally reputed peer reviewed journals. The list is given below:

1. Puppala Geetika Krishna, Thunga Girish, Chekka Manasa, Sudha Vidya Sagar, Sureshwar Pandey, Vijaynaryana K, Sreedharan N and Prasann Kumar Shetty. Demographics, Clinical Characteristics, Treatment and Outcomes of Acute Organo-Phosphorous Pesticide Poisoning From South India. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. November - December 2015, 6(6), 826-834 [National Indexed; Impact factor: Nil]
2. Parvathy Menon, Girish Thunga, Srikanth Nambiar, Kanav Khera. Atypical presentation of metoclopramide - induced galactorrhea. *Journal of Pharmacy Practice and Research*, 2015, 45, 437-439 [International Indexed; Impact factor: Nil]
3. Merry Rahael, Seyed Hanif Karimzad, Jatin Agarwal, Anirudh Arun Bhandakar, Girish Thunga, Shreedhar N, Vijayanarayan K, Muralidhar Varma and Sureshwar Pandey. Prevalence of Ventilator Acquired Pneumonia in Organophosphorus Poisoning Patients in Tertiary Care Hospital. *International Journal of Drug Development and Research*, 2015, 7(4), 06-08. [National Indexed; Impact factor: Nil]
4. Parvathy R Menon, Srikanth Nambiar, Girish Thunga, Vinay Patidar, Kanav Khera and Yogesh Vohra. Clinical Presentation of Abdominal Tuberculosis in Indian Scenario: A Retrospective Study. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, November - December 2015, 6(6), 44-50. [National Indexed; Impact factor: Nil]
5. ZenabAttari, Sunethra Kalvakuntla, M Sreenivasa Reddy, Mangesh Deshpande, C Mallikarjuna Rao and K B Koteshwara. Formulation and characterisation of nanosuspensions of BCS class II and IV drugs by combinative method. *Journal of Experimental Nanoscience*. 2016, 276- 288. [International Indexed; Impact factor: 1.043]
6. Anirudh Kotlo, Ajay Maram, Pradeep M Muragundi, Manthan Janodia and Virendra Ligade. Health Related Quality of Life among Medical Representatives. *Journal of Young Pharmacists*, Jan - Mar 2016, Vol 8(1), 18-22. [National Indexed; Impact factor: Nil]
7. Chandr Sekhar Misra, Chetan Gejjalagere Honnappa, Srinivas Reddy Jitta, Karthik Gourishetti, Prasanthi Daram, Mahendra Pal Singh, Mazhuvancherry Kesavan Unnikrishnan. Biological activity of a small molecule indole analog, 1-[(1H-indol-3-yl)methylene]-2-phenylhydrazine (HMPH), in chronic inflammation. *Chemico- Biological Interactions*, January 2016, 244, 71-83. [International Indexed; Impact factor: 2.775]
8. Lalitha Simon, KK Srinivasan, Nitesh Kumar, Neetinkumar D Reddy, Subhankar Biswas, C Mallikarjuna Rao, Sudheer Moorkoth. Selected Novel 5'-Amino-2'-Hydroxy-1, 3-Diaryl-2-Propen-1-Ones Arrest Cell Cycle of HCT - 116 in G0/G1 Phase. *Excli Journal*, Jan 2016, 15, 21- 32. [International Indexed; Impact factor: 0.85]
9. Ramanath KV, MM Prabhu, Krishnadas Nandakumar and K Sreedhara R Pai. Monitoring of Adverse Reactions in Geriatric South Indian Patients in a Tertiary Care Teaching Hospital: A Prospective Study. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, January - February 2016, 7(1), 1381-1386 [National Indexed; Impact factor: Nil]
10. Lalit Kumar, Meka S Reddy, Ruchi Verma & KB Koteshwara. Selection of Cryoprotective Agent for Freeze Drying of Valsartan Solid Lipid Nanoparticles. *Latin American Journal of Pharmacy*, 2016, 35(2), 284-290. [International Indexed; Impact factor: 0.372]
11. Grandhi Venkata Ramalingayya, Madhavan Nampoothiri, Pawan G Nayak, Anoop Kishore, Rekha R Shenoy, Chamallamudi Mallikarjuna Rao, Krishnadas Nandakumar. Nagingin and Rutin Alleviates Episodic Memory Deficits in Two Differentially Challenged Object Recognition Tasks. *Pharmacognosy Magazine*, January - March 2016, 12(45); 63-70. [International Indexed; Impact factor: 1.256]
12. Meenakshi Srinivasan, Karthik Rao N, Girish Thunga, Manjunatha Hande and Ramamoorthi K. An intriguing case of acute abdomen. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, January - February 2016, 7(1), 586-589. [National Indexed; Impact factor: Nil]

13. Yogesh Vohra, Vinay Patidar, Aaron Alexander, Girish Thunga, Sreedharan Nair, Vijaynarayana Kunhikatta, Raviraja Acharya, Swathi Bhatt, Kesia Shaji Oomen, Alekhya Lavu and Akansha Kumar. Knowledge and Awareness of Diabetes Mellitus among Patients in a Tertiary Care Hospital in Southern India. Research Journal of Pharmaceutical, Biological and Chemical Sciences, January - February 2016, 7(1), 425- 428. [National Indexed; Impact factor: Nil]
14. A Suhaj, MK Manu, MK Unnikrishnan, K Vijayanarayana, C Mallikarjuna Rao. Effectiveness of Clinical Pharmacist Intervention on Health-Related Quality of Life in Chronic Obstructive Pulmonary Disorder Patients - A Randomized Controlled Study. Journal of Clinical Pharmacology and Therapeutics. January 2016, 47, 78- 83. [International Indexed; Impact factor: 1.668]
15. Virendra S Ligade. Look - alike, sound -alike drugs in India. Current Science, 10 October 2015, Vol 109, No7; 1230-1233. [National Indexed; Impact factor: Nil]

Women's Day Celebration at MCOPS

March 7: Women's day was celebrated on 7th March 2016 at MCOPS. The chief guest for the function was Dr. Monica, Associate Professor, DIPSAR, New Delhi. There were preliminary rounds of competitions held in the previous week and the enthusiastic participants participated in large numbers. The judges were invited from the constituent institutions of Manipal University. The prizes were distributed to the winners during the program by the Principal, Dr C Mallikarjuna Rao and Vice Principal, Dr M Sreenivasa Reddy. A presentation on Women's day was arranged by Mrs. Aswati Hegde. Mrs. Bhavana Bhat and Mrs. Suma Kishore were the masters of ceremony and Ms. Sanchari Basu Mallik rendered vote of thanks. On the spot games were organized and cake cutting was done by the chief guest. Various teaching, non-teaching staffs and Research Scholars witnessed the program.

