

MCOPS

A constituent college of Manipal University

The most sought-after for pharmaceutical education and research

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

Ad Meliora

a quarterly newsletter

Vol 2 Issue 2 October - December 2015

EDITORIAL

This is the second issue Ad Meliora for the academic year 2015-'16. New entrants (students) to MCOPS have just settled in. The first sessional examinations have been successfully conducted. As has been its wont, MCOPS conducted a slew of activities during October and December. This issue carries brief reports on all activities that took place. Besides, the achievements of teachers, research scholars and students have been recorded.

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FROM THE PRINCIPAL'S DESK

This has been another hectic quarter for MCOPS with a number of events taking place besides academic activity. The seminars have provided learning opportunities for the staff and students on new frontiers in pharmaceutical sciences. At the same time, events like RashtriyaEkta Divas celebration inculcate strong sense of unity and nationalism in the students coming from all over India.

During October- December period, three PhDs came out of MCOPS, of which two were full-time research scholars. A few students and staff members also made their mark by winning prizes at seminars and conferences held elsewhere.

In all, the quarter was a highly successful period for our institution. I hope the next issue of Ad Meliora will bring more goodies from MCOPS.



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EVENTS

National Seminar on Nanomedicines: Regulatory, Marketing and Patent Issues:

October 17-18: A two-day national seminar on "Nanomedicines: Regulatory, Marketing and Patent Issues" was held at Manipal College of Pharmaceutical



Sciences during October 17-18, 2015. Resource persons from academia and industry delivered lectures on nanomedicines from various perspectives. Delegates from the pharmacy colleges of Karnataka and nearby states participated in the seminar. Dr A Ramkishan, the Deputy Drugs Controller of India, inaugurated the seminar. Dr H VinodBhat, Vice Chancellor, Manipal University, presided over the inaugural function. Dr N Udupa, Professor, Department of Pharmacy Management & Director of Research, Manipal University, delivered his welcome address. Mr B N Manohar, CEO, Stempeutics, Mr Raviraja, Stempeutics and Dr C Mallikarjuna Rao, Principal, MCOPS also graced the occasion by their presence.

National Seminar on 'Novel Pharmaceutical Technologies:

'Novel Pharmaceutical Technologies: Challenges and Opportunities' was organized by Indian Association of Pharmaceutical Scientists and Technologists (IAPST), India in association with Consortium of Progressive Pharmaceutical Professional Associations of Manipal College of Pharmaceutical Sciences, Manipal University on 15 November, 2015. 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 Guests of Honor; Dr Satish Shenoy, Director-Research (Technical), Manipal University and Dr C Mallikarjuna Rao, Principal, MCOPS. Dr N Udupa, Program Convener and Professor, Department of Pharmacy Management & Director-Research (Health Sciences), Manipal University gave the welcome address. Dr Raviraja addressing the gathering stressed on the challenges faced by the biopharmaceutical industries in developing new drug delivery technologies. Dr Satish Shenoy gave a brief overview of research activities at Manipal University. The inauguration program was followed by the scientific sessions which



included guest lectures by eminent speakers such as Dr Raviraja NS, Dr K L Bairy, Dr N Udupa, Dr Srinivas Mutalik, Dr Yogendra Nayak, Dr C Mallikarjuna Rao and Dr

Manthan Janodia. The program was followed by poster session. The program concluded with the valedictory function, distribution of certificates to the participants and the prizewinners. Dr M Sreenivasa Reddy, vice principal, proposed the vote of thanks.



Rashtriya Ekta Diwas celebrated at MCOPS:

Sardar Vallabhbhai Patel Birth Anniversary was celebrated as Ekta Diwas on October 31, 2015. Sardar Vallabhbhai Patel, known as the iron man, dreamt of a united India, where the people would be one and yet would retain their diversity. On his 140th birth anniversary, Community Development Committee and Sports Council of MAPS, Manipal College of Pharmaceutical Sciences jointly organized a three day event which included debate, collage and essay competitions. The topic for the debate competition was "Caste System: A solution yesterday, turned problem today". The debate advocated different views from participants, unraveling the curtains of our pre-formed ideologies.

"A Unified India" being the theme for the collage competition was as diverse and colorful as our country. Well scripted essays were submitted for the topic- "Sardar Vallabhai Patel's vision in today's world" for the essay contest. Dr Nikhil Govind, HOD, Manipal Centre of Philosophy and Humanities, enlightened the students with an inspiring talk during the valedictory function at MCOPS. The teachers and students participated actively to make the event a definite success.

November 27: In response to the notification of acute shortage of blood in the Blood Bank of Kasturba Medical College, the MAPS decided to organise a blood donation drive and collected 84 units of blood. Staff from the Department of Immunohematology and Blood Transfusion of KMC was invited to the college to help conduct the drive. Over the time span of six hours between 9 a.m and 3 p.m, more than 150 students and faculty from MCOPS enthusiastically came forward to donate blood. The drive was a huge success and the ExCo was thrilled that they could play active role in time of need.

December 13, 2015: Department of Pharmacy Practice, MCOPS, Manipal University organized a diabetes screening camp for bus drivers and conductors at Kundapura on Sunday, December

13, 2015. The event was conducted in association with Rotary Club, Kundapura South and Durgamba Motors. Novartis



Health Care Pvt Ltd sponsored the event. Hosting event is estimated to have cost the sponsors approximately Rs 24,000. The event was inaugurated by Mr Satish N Sherigar, Governor, Rotary Club, Kundapura. Mr Vasudeva Karanth, President, Rotary Club, Kundapura South and Mr Sadananada Chatra, Durgamba Motors, were present in the occasion. Dr Karthik Rao, Asst. Professor, Kasturba Hospital, Ms Elsa Sanatombi Devi, Professor & Head, Department of Medical Surgical Nursing, Dr Sreedharan, Dr Girish Thunga, Mr Sonal Sekhar, Mr Suhaj A and Mr Prasanna Kumar of Department of Pharmacy Practice actively involved themselves in the camp along with students of PharmD, Nursing and MPharm-Pharmacy Practice. Nearly 400 bus employees availed the benefit of the health screening camp.

PhD Awardees



Dr Revathi Rajappan

[Topic: Design and Development of Novel Piperidone Derivatives as potential antitubercular and anti-HIV agents] Guide - Dr Suvarna G Kini, Co-Guide - Dr K Sreedhara R Pai & Dr G Arunkumar (28.10.2015)



Dr Girish Pai K

[Topic: Formulation and Evaluation of Extended Release Ocular Inserts of Sodium Cromoglycate using Biocompatible & Biodegradable Polymers] Guide - Dr M Sreenivasa Reddy (20.11. 2015)



Dr Pallavi K

[Topic: Formulation and evaluation of Dendrimeric Sunscreens containing Silibinin and epigallocatechin-3-gallate (egcg)] Guide - Dr Srinivas Mutalik

Student Achievement

- Ms Kesia Shaji Oommen, PharmD (Intern), Department of Pharmacy Practice was awarded third prize for poster presentation during the Manipal Cardiology Update 2015, held on November 1, 2015.
- Ms Puspita Sahu of I year M Pharm, Department of Pharmacology, received the prestigious Prof M L Kharana Medal - 2015, Prof M L Schroff Medal 2015 (Pharmacy students - Merit Awards) for her creditable performance in her final year B Pharm examination held in May 2015 in MCOPS. She received this prestigious award in the inaugural function of Indian Pharmaceutical Congress (IPC) held in Mysore on December 19, 2015.
- Mr Raghuraman Manimaram, II year M Pharm, Department of Biotechnology, received the second prize in poster presentation for the poster entitled "Dinicotinamide Diselenide- a Probable Radioprotector" in Pharmaceutical Sciences category at 1st International Conference on Healthcare and Technical Research held at Manipal University during December 22-24, 2015

Faculty Achievement

- Dr H N Ashwatharam**, Associate Professor, Department of Pharmacognosy, received Certificate of Appreciation from Association of Pharmaceutical Teachers of India (APTI) for "Attendance and Participation during the National Annual APTI Conventions" during APTICON held at Indore during October, 2015.
- Dr C S Shreedhara**, Professor, Department of Pharmacognosy, received Second Place in the poster competition under Pharmacognosy and Biotechnology section during APTICON 2015 held at Indore during October, 2015
- Dr V M Subrahmanyam**, Professor, Department of Pharmaceutical Biotechnology, has secured Second position for his research paper entitled "An invitro study on anticancer potential of fungal chondroitinase" in APTICON - 2015 held at Indore during October 2015.
- Dr N Udupa**, Professor, Department of Pharmacy Management & Director - Research (Health Science) received IPGA Fellowship Award for the year 2015 during the inaugural session of 30th Annual Conference of IPGA on October 31, 2015 at New Delhi.



- Twenty scholarships from the International Society for Pharmaco-epidemiology (ISPE) were bagged by the teaching faculty and students to attend the ISPE's 9th Asia Conference on Pharmaco-epidemiology during November 14 -16, 2015 at Thailand. Six teachers from Department of Pharmacy Practice - **Dr Sreedharan Nair**, **Dr Vijayanarayana K**, **Dr Rajesh V**, **Dr Girish Thunga**,

Mr Sonal Sekhar M and **Mr Prasanna K Shetty**, a Research Scholar -Mr Alkesh Kumar Lokhande and twelve Pharm D students - Ms Nishitha N Prabhu, Ms Thanmai V, Ms Kshipra K, Mr Amal Raj, Mr Prem Lal, Ms Parvathy Menon, Ms Zoya Ahmed, Ms Manasa Ch, Ms Gopika Krishnan, Ms Anuseeya Nadar, Ms Praisy Ann Jacob and Ms Hanisha Shah and M Pharm student -Ms Puppala Krishna Geetika, received the scholarship.

6. Five faculty members and three research scholars of MCOPS were conferred PhD Degree during 21st Convocation of Manipal University held in



November 2015. **Dr Angel Treasa Alex, Dr K Narayanan, Dr Pradeep Muragundi, Dr Madhavan Namboothiri, Dr Hitesh Jagani, Dr GirishPai, Dr Kanav Khara and Dr Cinu Thomas** received the degree from the Chief Guest of the function. The convocation was conducted over a span of three days, where approximately three thousand five hundred students were graduated. As in the previous years, MCOPS presented the maximum number of PhD Awardees.

7. **Mr Venkatesh Kamath B**, Assistant Professor, Department of Pharmaceutical Biotechnology, received Best Poster Award in Oral/Poster Presentation organised by Manipal College of Nursing Manipal, Manipal University, on December 1, 2015 on the occasion of World AIDS Day 2015. Theme of the poster is "Getting to zero-zero new HIV infection, zero discrimination, zero AIDs related deaths observation".

8. **Dr Srinivas Mutalik**, Professor, Department of Pharmaceutics, received 12th STARS Award 2015 for teachers for "Excellence in Academic Research" in recognition of his merit in academic research and motivating young pharmacy students, on December 12, 2015 in Bengaluru by AAGCPA (American Association of Government College of Pharmacy Alumni), New York, USA. Dr G Jagadeesh, Scientific Coordinator, AAGCPA, USA and Senior Pharmacologist, USFDA, Prof K S Ravindranath, Vice Chancellor, Rajiv Gandhi University of Health Sciences, Bengaluru, Prof. Vijay Chandru, Chairman, Strand Life Sciences, Bengaluru and Sri Raghuram Bhandary, Drugs Controller of Karnataka State were present to give the award.



9. **Dr Angel Treasa Alex**, Assistant Professor – Senior Scale, Department of Pharmaceutical Biotechnology, received Best Oral Presentation



award for the paper entitled "In Vitro, Ex vivo and in situ evaluation of carboplatin polymeric nanoparticles for brain delivery by nasal route" in 67th IPC, Mysuru during December 19 – 21,2015.

10. **Mrs Ruchi Verma**, Assistant Professor – Senior Scale, Department of Pharmaceutical Chemistry, has participated and won "Prof V Subba Rao 1st prize for Excellent presentation" in National Level powerpoint presentation competition 2015 organised by POWER held on the occasion of 67th IPC, 2015 during December 19 – 21, 2015. Theme of the presentation was "Smart and Strong Women Pharmacists for Quality Pharmaceutical Industry".

Achievement of Research Scholars

1. **Ms Bhavana B Bhat**, Research Scholar, MCOPS, won the Best Young Researcher Award for her oral presentation entitled "Quality of Life and Clinical Efficacy of a Locally Used Polyherbal Formulation Among Type II Diabetes Patients" in the Global Summit on Herbs and Natural Remedies held during October 26-27, 2015 at Chicago, USA. Ms Bhavana was awarded a travel grant from ICMR for her travel and registration. She also got financial support for accommodation from Centre for International Cooperation in Science (CICS), Chennai.



2. **Mr Mradul Tiwari**, Research Scholar, MCOPS, received Best Poster Presentation award for the poster entitled "Anticancer potential of biosynthesized copper nanoparticles in human lung adenocarcinoma" at the one-day seminar on "Controlled Release Drug Delivery Systems: Scale up, commercialization and Entrepreneurship Opportunities" organized by CRS-Indian local chapter, Mumbai, Manipal University at Bengaluru Campus and Manipal Academy of Banking, Bengaluru on December 5, 2015. The seminar was partially sponsored by Ce-chem Laboratories, Bengaluru.



3. **Mr Prateek Jain**, Research Scholar, MCOPS, received third prize in poster presentation for the poster entitled "Epigenetic Therapy Supplements Docetaxel in the treatment of Lung Cancer: an in vitro Evaluation" and won third prize at one-day seminar on "Controlled Release Drug Delivery Systems: Scale up, commercialization and Entrepreneurship Opportunities" organized by CRS-Indian Local Chapter, Mumbai, Manipal University at Bengaluru Campus and Manipal Academy of Banking, Bengaluru on December 5, 2015.



International Scientific conferences



During the period of October to December 2015, nineteen faculty members of MCOPS presented their research work in various international conferences while twenty

presented their research outcomes in various national conferences. 'Drug Delivery Conference' Arizona, USA, 75th FIP World Congress of Pharmacy and Pharmaceutical Sciences 2015, Germany, 2015 AAPS Annual Meeting and Exposition Orlando, Florida, USA, 'Global summit on Herbals & Natural Remedies' Chicago, USA, ISPOR 18th Annual European Congress MiCo-Milano Congressi in Milan, Italy, 'ISPE 9th Asian Conference on Pharmacoepidemiology' Bangkok, Thailand, 'The Asian Federation for Pharmaceutical Sciences (AFPS) 2015 Conference' Rama Gardens Hotel, Bangkok, Thailand, 'APSA-ASCEPT 2015 Meeting' Hobart, Australia.

Dr Yogendra Nayak, Associate Professor Dept. of Pharmacology and Dr Usha Nayak, Associate Professor, Department of Pharmaceutics, MCOPS, Manipal University, presented posters at APSA-ASCEPT Joint Scientific Meeting at Hobart, Australia held during 29 Nov- 02 Dec 2015 through the financial support from Manipal University given under Incentive for Excellence in Teaching and Research. Dr Usha Nayak established research collaboration with Prof. Sanjay Garg, University of South Australia Adelaide, for PhD program.

Guest Lecture

Dr Girish Pai K, Faculty, Department of Pharmaceutics, MCOPS, Manipal University, delivered a guest lecture on "Role of developmental Quality Assurance and its impact on manufacturing operations" in JSS College of Pharmacy, JSS University, Mysuru on 1st December 2015. The lecture was attended by faculty members and PG students of Pharmaceutics, Industrial Pharmacy, Quality Assurance and Regulatory Affairs.



Visitors

Dr Menino Osbert Cotta, Senior Clinical Pharmacist, Royal Brisbane and Women Hospital, Brisbane, Australia delivered a lecture on "Strategies to improve antimicrobial use in hospitals (antimicrobial stewardship)". Dr Mtsahali Sifiso Tokello, Head, Department of Health and Ms Prasheeka Padayachee, General Manager, Department of Health, Province of Kwazulu- Natal, South Africa visited MCOPS and interacted with students of South Africa. Dr G Jagadeesh, Senior Advisor, USFDA and adjunct professor of Manipal College of Pharmaceutical Sciences, Manipal interacted and addressed the faculty members and research scholars of Manipal University on "Planning, Executing and Publishing Research Projects".

Students' Corner

"DaanUtsav (earlier called Joy of Giving Week) is India's "festival of giving". Launched in 2009, the festival is celebrated every year in the week following Gandhi Jayanthi i.e., October 2 - 8,



and brings together Indians from all walks of life to celebrate "giving". Volunteer Services Organization (VSO), Manipal University saluting Gandhiji's act of giving, participated in DaanUtsav 2015 for the third consecutive year by launching six new projects in addition to three existing ones, which are aimed to spread smiles by touching the life of others. All the projects will be hosted by constituent colleges of Manipal University. Health and Hygiene session was hosted by Manipal College of Pharmaceutical Sciences, Manipal. Nearly 1000 slum dwellers participated.



Sanskriti 2015, Students' Council organised the cultural programme Sanskriti -2015 during October 19- 24, 2015. The cultural calendar started off with the inauguration of student council 'MAPS 2015' on September 9, 2015. This formal event was followed by a cultural carnival by the students 'SANSKRITI 2015', where we saw lots of amazing talents participating in various cultural competitions. Sanskriti is the annual cultural meet of MCOPS conducted over a week, allowing the students to compete in large numbers representing their respective batches. Sanskriti 2015 started off on October 19, 2015 with a formal inauguration by our beloved principal and vice principal. A number of new events like Treasure hunt, Fashion show, Face painting, Duet dance were included in Sanskriti 2015, enhancing students' participation. The valedictory day of Sanskriti 2015 was on 24th October 2015 and was organized in a splendid way in MIT Library auditorium.



One day training program on Soft Skills and Interview Skills was conducted on October 18, 2015 for final year BPharm and PharmD students and for II year MPharm and Post Baccalaureate students on October 19, 2015. The program was jointly organized by Department of Pharmacy Management and Training and Placement Assistance Centre (TAPAC) of MCOPS. Mr Shrekanth, Regional Manager, Field Training, UCB, Bengaluru conducted the program. Students participated with great enthusiasm and gave their best in each activity. A total of 120 students who underwent training expressed that the program helped them to a great extent.

MCOPS sheens by organizing various seminars/workshops outside MCOPS:

A one-day seminar on “Controlled Release Drug Delivery Systems: Scale up, commercialization and Entrepreneurship Opportunities” was organized by CRS-Indian Local Chapter, Mumbai and Manipal University, at its Bengaluru Campus, Manipal Academy of Banking, Bengaluru on December 5, 2015. The seminar was partially sponsored by Ce-chem Laboratories, Bengaluru.

Guest lectures were delivered by eminent speakers such as Dr Shobha Rani Hiremath, Professor and Principal, Al-Ameen College of Pharmacy, Bengaluru, Dr Vandana Patravale, Professor, Institute of Chemical Technology, Mumbai, Dr Parizad Elchidana Managing Director, Apotex Research Pvt. Ltd., Bengaluru, Dr N Udupa,



Research Director (Health Sciences), Manipal University, Manipal, Dr Vijay Kulkarni, Group Leader, Pharmaceutical Development Center, STEER Life India Pvt. Ltd.,

Bengaluru, Dr Srinivas Mutalik, Professor, Manipal College of Pharmaceutical Sciences, Manipal and Dr Karthik A, Senior Scientist, Advinus Therapeutics Ltd., Bengaluru. Various topics covered were related to scaling up of controlled delivery systems, drug eluting stents, and leveraging drug delivery strategies to drive innovation, different controlled release dosage forms, hot melt extrusion technology, etc. Dr Vinay Rao, Director, Pharmaceutical Development Center, STEER Life India Pvt. Ltd., Bengaluru, Dr Arshad Basheer, Professor, Kripanidhi College of Pharmacy, Bengaluru and Dr M Sreenivasa Reddy, Professor and Vice Principal, MCOPS were chairpersons for various lectures. The program concluded with the valedictory function and distribution of certificates to the participants.



Two-day symposium: Under the aegis of Dr TMA Pai Endowment Chair, a two-day symposium on pathogenesis of diabetes: Behavioural Insights in Pre-diabetes & Cognition was held during December 5- 6, 2015. This symposium reviewed contemporary scientific evidence in order to explain the diabetes pandemic from an unconventional point of view. The main speaker, Prof Milind Watve of IISER, Pune, offered a refreshingly unorthodox interpretation of diabetes by delineating the evolutionary implications of metabolic provisioning in the context of the “Behavioural Switch Hypothesis”. Quoting from hundreds of papers, Prof Watve outlined what might be described as an AvanteGarde narrative in diabetic etiology. Prof Sudha Vidyasagar, Department of Medicine, KH discussed the ambiguous nature of “Insulin Resistance”, a double edged sword. Dr Rishikesh Behere, Department of Psychiatry, KH, spoke about how stress could play a part.

A three-day International Conference on Healthcare and Technical Research, ICHTR 2015, was inaugurated

on December 22, 2015 in Manipal University. The conference was organized by Manipal University Students' Research Forum (MUSRF) and constituent research groups of Manipal under the aegis of Directorate of Research, Manipal University. The occasion became auspicious with the presence of chief guest Padmashree awardee Dr YS Rajan, distinguished professor at ISRO and Dr H Vinod Bhat, Vice Chancellor of Manipal University. The guests of honour were director of MIT, Dr GK Prabhu and Dean of KMC, Dr Poornima Baliga. The conveners of the conference, Directors of Research, Dr N Udupa and Dr Satish Shenoy, were also present. Mr Prateek Jain, Organising Chairperson of ICHTR 2015 and President of MUSRF, welcomed all the dignitaries. They all appreciated the teamwork, leadership, and organisational abilities of the student committee. Dr GK Prabhu instigated the appreciation trail by pointing the connections built among the students of KMC and MIT campuses. Dr Poornima Baliga mentioned the way MUSRF has been taken to new level of collaborative work under the leadership of Prateek. The chief guest Dr Rajan gave his blessings to the student fraternity while Dr Vinod Bhat was ecstatic with the performance of his young students. Dr Bhat summarised the journey of the research forum in the past two years and mentioned a few key events organised by students. This was followed by the keynote speech of Dr YS Rajan, co-author of the book India 2020, who presented the Indian culture in the past, present and future according to his vision. The scientific talk by Dr Sudipta Maiti was catalytic enough for the two day expansive scientific sessions to follow. The evening ended with a beautifully cultural program Aarohan and dinner for the participants.

Alumni Digest

“With the knowledge, foundation and encouragement of many of the outstanding faculty, MCOPS experience was stepping stone for my research interests in drug discovery. The mentors encouraged me in being creative and critical thinker which helped to place me on promising trajectory in field of drug metabolism & pharmacokinetics and regulated bioanalysis”.



Pradeep Singh Rawat
Designation: Senior Scientist-DMPK,
Proprietary Products R&D,
Dr. Reddy's Laboratories Ltd.
Hyderabad, India



December 19: MCOPS alumni met during the 67th Indian Pharmaceutical Congress, held at JSS University, Mysuru. The meet was called for by Dr N Udupa, former Principal, Dr C Mallikarjuna Rao, Principal and Dr M Sreenivasa Reddy, Vice Principal of MCOPS and the delighted alumni which comprised for . people from various walks of Pharmacy Profession met at the ground floor of JSS Medical College Building. Elite Alumni shared their experience with the budding pharmacists of Third and Fourth year of BPharm and PharmD, as well as MPharm students and Research Scholars, who had participated with high enthusiasm and expectation. Dr Kaushik Desai, Dr T K Ravi, Dr Prenmnath Shenoy, Dr MNA RAO, Dr KVSRG Prasad and Dr Nagaraju spoke to the gathering.



December 20: Re-union of Alumni of 1986 Batch (B Pharm) was held on December 20, 2015 at MCOPS. The event was attended by 17 of the alumni. Dr S Narayana Rao, Former Registrar Evaluation, MU, Dr K K Sreenivasan, former HOD, Pharmaceutical Chemistry, Dr K S Aithal, former faculty, Dr M K Unnikrishnan, HOD, Pharmacy Practice and Dr G Gautham Shenoy, HOD, Pharmaceutical Chemistry were present during the program. The event was organized by Dr Jessy Elizabeth Mathew, Associate Professor, Department of Pharmaceutical Chemistry. The alumni shared their nostalgic memories with the teachers. The alumni were presented with memento by the teachers. The alumni were apprised of the achievements of the college during the last 2 decades.



Research Spotlight

MCOPS witnessed a surge in research activity by faculty, research scholars and postgraduates. Twenty-nine publications with a cumulative impact factor 28.875 and average impact factor 0.9960 came out of MCOPS. The details of publications are as follows:

- Vijay Kumar Sodde, Richard Lobo, Nimmy Kumar, Rajalekshmi Maheshwari, C S Shreedhara. Cytotoxic Activity of *Macrosolenparasiticus* (L.) Danser on the growth of breast cancer cell line (MCF-7). *Pharmacognosy Magazine*, April - June 2015, 11(42), 156-160. [National Indexed; Impact factor: 1.256]
- Keloth Kaitheri Srinivasan, Jessy Elizabeth Mathew, Kerryn Joseph AD Silva, Richard Lobo, Nimmy Kumar. Nephroprotective potential of *Graptophyllum pictum* against renal injury induced by gentamicin. *Iranian Journal of Basic Medical Sciences*, Feb 2015, 18(2), 412-416. [International Indexed; Impact factor: 1.228]
- Ankita Chonkar, Usha Nayak and N Udupa. Smart Polymers in Nasal Drug Delivery. *Indian Journal of Pharmaceutical Sciences*, July - August 2015, 77(4), 367-510. [National Indexed; Impact factor: 0.479]
- Adhikari Snehusu, Chitrini Ghosal, Mamta Kandwal, Pramod K Yadav, B Satheesha Nayak, K Raghavendra Rao, Shobha U Kamath, Pabitra Sahoo, K K Srinivasan, Sareesh Naduvil Narayanan, Shiva Kumar, Alex Joseph. 1 - Triacantanolcerotate; isolated from *Marsilea quadrifolia* Linn. ameliorates reactive oxidative damage in the frontal cortex and hippocampus of chronic epileptic rats. *Journal of Ethnopharmacology*, 2015, 172, 80-84. [International Indexed; Impact factor: 2.998]
- Akram Ahmad, Muhammad Umair Khan, Ramadan Mohamed Elkalmi, Shazia Qasim Jamshed, Anantha Naik Nagappa, Isha Patel and Rajesh Balkrishnan. Job Satisfaction among Indian Pharmacists: an exploration of affecting variables and suggestions for improvement in pharmacist Role. *Indian Journal of Pharmaceutical Education and Research*, Oct-Dec 2015, Vol 49(2), 1-7 [National Indexed; Impact factor: 0.177].
- Phani Krishna Kondamudi, Hemalatha Kovelamudi, Pawan G. Nayak, Mallikarjuna Chamallamudi Rao, Rekha Raghuvveer Shenoy. Curcumin half analog modulates interleukin-6 and tumor necrosis factor-alpha in inflammatory bowel disease. *Pharmacognosy Magazine*, October-December 2015, Vol 11 (44), 296-302. [National Indexed; Impact factor: 1.256].
- Dinesha, Shivapura Viveka, Bolli Keerthi Priya, K Sreedhara Ranganath Pai, Shivalingegowda Naveen, Neratur K Lokanath, Gundibasappa Karikannar Nagaraja. Synthesis and Pharmacological evaluation of some new fluorine containing hydroxypyrazolines as potential anticancer and antioxidant agents. *European Journal of Medicinal Chemistry*. 2015, 104, 25-32. [International Indexed; Impact factor: 3.447]
- Rupesh Shirodkar, Neetinkumar Reddy, Nitesh Kumar, Grandhi Ramalingayya, Srinivas Mutalik & Shaila Lewis. Subacute Toxicity Study of Lacidipine Nanoformulation. *Latin American Journal of Pharmacy*. 2015, 34(8), 1526-1533. [International Indexed; Impact factor: 0.372]
- Gopal Venkatesh Shavi, Usha Yogendra Nayak, Naseer Maliyakkal, Praful Balavant Deshpande, Ramesh Raghavenra, Averineni Ranjith Kumar, Meka Sreenivasa Reddy, Nayanabhirama Udupa, B Shrawan. Nanomedicine of anastrozole for breast cancer: Physicochemical evaluation, in vitro cytotoxicity on BT -549 and MCF -7 cell lines and preclinical study on rat model. *Life Sciences*, 2015, 141; 143-155. [International Indexed; Impact factor: 2.702]
- Lalit Kumar, M Sreenivasa Reddy, Renuka S Managuli, Girish Pai K. Full factorial design for optimization, development and validation of HPLC method to determine valsartan in nanoparticles. *Saudi Pharmaceutical Journal*, 2015, 23, 549-555 [International Indexed; Impact factor: 1.283]

11. Pallavi Krishna Shetty, Venkatesh Venuvanka, Hitesh Vitthal Jagani, Gejjalagere Honnappa Chethan, Virendra S Ligade, Prashant B Musmade, Usha Y Nayak, Meka Sreenivasa Reddy, Guruprasad Kalthur, Nayanabhirama Udupa, Chamallamudi Mallikarjuna Rao, Srinivas Mutalik. Development and evaluation of sunscreen creams containing morin-encapsulated nanoparticles for enhanced UV radiation protection and antioxidant activity. *International Journal of Nanomedicine*, Oct - Dec 2015; Vol 1(1), 6477-6491. [International Indexed; Impact factor: 4.383]
12. Suma Prabhu, Srinivas Mutalik, Sharada Rai, Nayanabhirama Udupa, Bola Sadashiva Satish Rao. PE Glylation of superparamagnetic iron oxide nanoparticle for drug delivery applications with decreased toxicity: an in vivo study. *Journal of Nanoparticle Research* 2015, 17; 412 [International Indexed; Impact factor: 2.184]
13. Pooja R Kamath, Dhanya Sunil, A Abdul Ajees, KSR Pai, Shubhankar Das. Some new indole-coumarin hybrids; Synthesis, anticancer and Bcl -2 docking studies. *Bioorganic Chemistry* 63 (2015) 101-109. [International Indexed; Impact factor: 2.152]
14. Shilpee Chaudhary, Raviraj Anand Devkar, Deepak Bhare, Manganahalli Manjunath Setty, Karkala Sreedhara Ranganath Pai. Selective Cytotoxicity and Pro-apoptotic Activity of Stem Bark of *Wrightia Tinctoria* (Roxb.) R. Br. Cancerous Cells. *Pharmacognosy Magazine*, Oct- Dec 2015, Vol 11(44), 481-487. [National Indexed; Impact factor: 1.256].
15. Sharad Kumar Suthar, Sumit Bansal, Md. Maqusood Alam, Varun Jaiswal, Amit Tiwari, Anil Chaudhary, Angel Treasa Alex, Alex Joseph. Design, synthesis, and biological evaluation of ozindole derivatives as antidepressive agents. *Bioorganic & Medicinal Chemistry Letters*. 25, 2015, 5281-5285. [International Indexed; Impact factor: 2.420]
16. Uday Venkat Mateti, Anantha Naik Nagappa, Ravindra Prabhu Attur, Manohar Bairy, Shankar Prasad Nagaraju, Surulivelrajan Mallayasamy, Rajesh Vilakkathala, Vasudev Guddattu, Rajesh Balkrishnan. Preparation, validation and user-testing of pictogram - based patient information leaflets for hemodialysis patients. *Saudi Pharmaceutical Journal*, 2015, 23, 621-625. [International Indexed; Impact factor: 1.283]



Glimpses of SANSKRITI 2015

