



MANIPAL

ACADEMY of HIGHER EDUCATION

(Deemed to be University under Section 3 of the UGC Act, 1956)

MAHE Research Bulletin

Jul- Sept 2019



Content

Part I

- A. Details of research activities **during the period Jul- Sept 2019**
 - a. Total number of publications in Scientific Journals (in Scopus/Web of Science indexed and/or impact factor journals)
 - b. Ongoing research projects
 - c. Research and training programs conducted
 - d. Number of collaborations established
 - e. Total number of grants received
 - f. Patents applied
- B. Faculty and Institution Achievements
- C. Achievements by research scholars and students
- D. Awards and accolades

Part II

- a. Featured Researcher of MAHE
- b. Top publications for the period Jul- Sept 2019

Part III

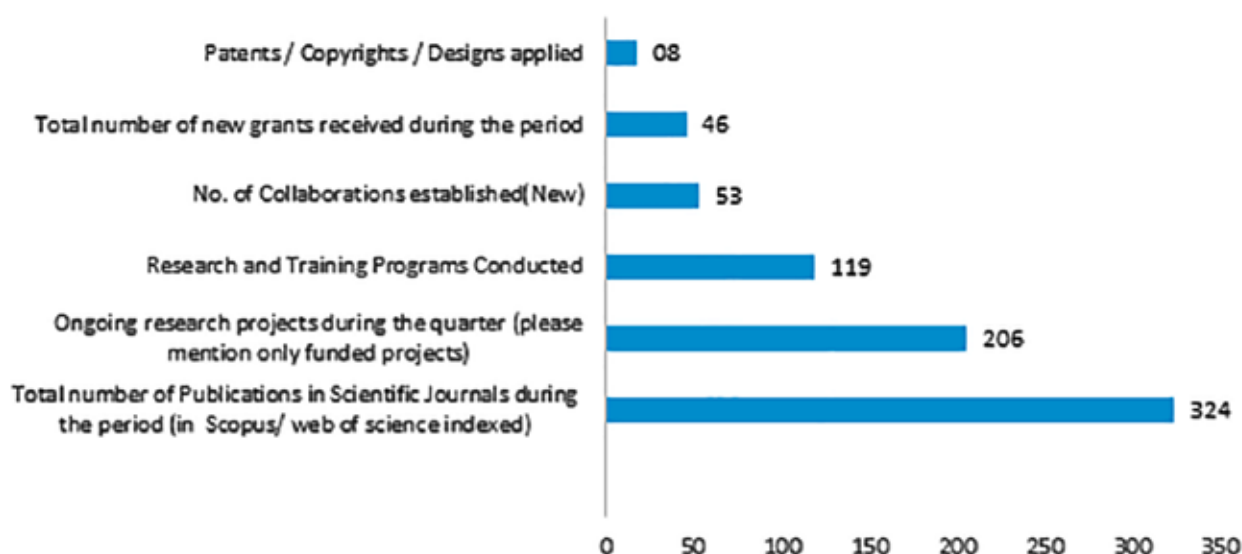
Activities of MAHE Students' Research Forum (MAHE-SRF)

Part I

Manipal Academy of Higher Education (MAHE) is one of the premier universities in India. MAHE considers both academics and research equally important for the betterment of the institution. The faculty members and the research scholars at MAHE have embraced the research culture. They publicize their research work in scientific publications, through presentations in various conferences and obtain patents, research grants etc. In this report, we present to you **an overview of the research activities** at MAHE during the period **Jul- Sept 2019**

A. Details of research activities of MAHE for the period Jul- Sept 2019

Research Output during Jul Sep 2019



B. Faculty and institution achievements

1. Dr G Arunkumar, Director, Manipal Institute of Virology (MIV) is nominated to the WHO (World Health Organization) working group on Pandemic Influenza Special studies as an expert from SEARO Region by State Surveillance Unit, Integrated Disease Surveillance Programme, Government of Karnataka. Dr Arun was invited by Dr George F Gao, Director of CAS Key Laboratory of Pathogenic Microbiology and Immunology, Institute of Microbiology, Chinese Academy of Sciences, Beijing, P R China to visit their facility and explore collaboration in the area of development of monoclonal antibodies to emerging viruses during Sep 22-26, 2019.
2. MIV is officially accepted as a Centre of Excellence within the Global Virus Network.
3. Dr Monica Charlotte Solomon, Professor and Head, Department of Oral Pathology, Manipal participated in a Faculty Externship exchange program at the Henry M Goldman School of Dental Medicine, Boston University. She delivered a guest lecture on the topic - "Unravelling the mysteries of Paramount Oral disease" on July 9, 2019.



4. Manipal School of Architecture and Planning (Formerly known as Faculty of Architecture) was ranked 1st in the Category of Super Excellence and in the Southern Region in GHRDC (Global Human Resource Development Centre Pvt Ltd, New Delhi) Architecture Colleges Survey 2019. The institution is also awarded the 7th rank in the Architecture Category in India Today - MDRA Best Colleges Ranking 2019 (ARCHITECTURE). It is ranked 7th in the Architecture Category in the Outlook - Drshiti Architecture Colleges Survey – 2019.
5. Dr Ramesh S Ve, Associate Professor (Senior scale), Department of Optometry, MCHP (Manipal College of Health Professions) attended the 5th consortium meeting at Hadassah Academic College, Israel as part of OCULUS Erasmus activity during Sep 15-17, 2019. This was sponsored by the Erasmus fund. He attended the Erasmus+ regional seminar for Asia 2019 at Kathmandu, Nepal in September.



6. Ms Rekha V, Assistant Professor, Department of Cardiovascular Technology, Manipal College of Health Professions, MAHE, Manipal participated in a workshop on “Advance Brady workshop” conducted by India Medtronic Pvt Ltd from September 23-28, 2019 at Chennai. She was the only clinical staff selected to attend a training workshop.



7. Dr Abraham Samuel Babu, Associate Professor, Department of Physiotherapy, MCHP, MAHE, Manipal was selected as “Young Ambassador” to India by the European Association of Preventive Cardiology.




8. Dr Bhamini Krishna Rao, Professor, Department of Physiotherapy, MCHP, MAHE, Manipal received a travel grant to attend and present poster at the 73rd Annual Meeting of American Academy of Cerebral Palsy and Developmental Medicine (AACPD) in Anaheim, California, USA during Sept 18-21, 2019.




9. Dr John Solomon M, Associate Professor (Senior scale), and Mr Subramanian Durairaj, Research Scholar, Department of Physiotherapy, MCHP, MAHE received travel grant from International Development Research Centre (IDRC) to attend the 16th Gender Summit-Asia Pacific and a research training program on integrating sex/gender analysis in research held at Singapore during Aug 28-30, 2019.

10. Dr Baby S Nayak, Dr Anice George, Dr Bhumika Tumkur Venkatesh, Dr Sonia R B D’Souza, Dr Binil V, Professor Sandy Olivers (University College of London) – International Principal Investigator and

Dr Claire Stansfield, Dr Preethy D'Souza, Mr Jeff Brunton – International Co PI(s) were sanctioned by SPARC (Scheme for Promotion of Academic and Research Collaboration) research grant in July 2019 for their Project Titled, "Indigenizing Evidence Synthesis and Systematic Reviews for International Development and Global Challenges".

11. Dr Girish Pai's abstract titled "Effective management of manufacturing defects to avoid product recalls: A challenge to pharmaceutical industry" was chosen for a lecture during a scientific session by the Chairperson of scientific committee, 2nd International Conference on Fostering Interdisciplinary Research in Health Sciences (ICFIRHS 2019, Sep 14-15), held at AIMST University, Malaysia. Dr Pai is a faculty at the Department of Pharmaceutics, MCOPS, MAHE, Manipal. He spoke on recent critical market complaints, FDA's actions on major pharma companies that led to product recall and discussed in detail about various manufacturing defects, probable root causes and remediation measures. 
12. Dr Mahadev Rao, Professor and Head, Department of Pharmacy Practice, MCOPS, Manipal gave a speech on "Integrating Pharmacogenomics and Population Pharmacokinetics for Precision Therapy in Tuberculosis patients" in the International TB portals Consortium. Dr Rao represents India for International TB Portals Consortium since 2018. Currently, the TB Portals Consortium includes 13 partnering countries including India. He initiated the National Institute of Allergy and Infectious Diseases (NIAID) TB Portals program in Manipal and represents India in the Program's Steering committee. Chisinau, Moldova 2019 International TB Portals Consortium was themed "Advancing a Network of Clinical Informatics Resources" during September 23 – 25, 2019.
13. Dr Gireesh G, Assistant Professor, Manipal School of Life Sciences (MSLS) has been awarded with Ramalingaswami Fellowship for his project proposal titled "Investigation of the role of septo-hippocampal neural circuit and hippocampal theta oscillations on social memory in mice" by the Department of Biotechnology, Ministry of Science and Technology, Government of India.
14. Dr Raghu A R, Professor, Manipal College of Dental Sciences and Dr K Satyamoorthy, Professor and Director, Manipal School of Life Sciences received the DBT-Wellcome Trust India Alliance Intermediate grant on "Epithelial Reprogramming of HOX genes by epigenetic mechanisms and its implications to Cancer".

C. Achievements by research scholars and students

1. Mr Shreevatsa Acharya, third semester MBBS student, Kasturba Medical College, Mangalore, MAHE received second prize in the State Level Anatomy Quiz, held in Bangalore Medical College and Research Institute, Bangalore on 21 September, 2019. This quiz was a part of the 21st State Level Annual Conference of Karnataka Chapter of Anatomists. 

- In Unity for Health conference held in Darwin, Australia, Ms Shagun Tuli, undergraduate student, Kasturba Medical College, Mangalore was elected as the Regional representative for South East Asian Countries for 2019-20. She will be representing Student Network Organization (SNO) activities in India, Pakistan, Nepal, Srilanka and Indonesia.



- Dr Arun Gunavardhana, third year MD, General Medicine, Kasturba Medical College, Mangalore received the first prize for oral presentation for the paper titled "Evaluation of diagnostic efficacy of Leukocyte esterase reagent test in spontaneous bacterial peritonitis", which was held during Sep 5-7, 2019 at SAVEETHA MEDICON 2019, Saveetha Medical College, Chennai.
- Dr Thejus, third year MD, General Medicine, Kasturba Medical College, Mangalore received the second prize for the oral presentation for the paper titled "Clinico-microbiological Profile of Community Acquired Pneumonia and its outcomes in tertiary care hospitals", which was held during Sep 5-7, 2019 at SAVEETHA MEDICON 2019, Saveetha Medical College, Chennai.
- Dr Karthik S, third year MD, General Medicine, Kasturba Medical College, Mangalore received the third prize for the oral presentation for the paper titled "A study of association of serum calcium level in dengue", which was held during Sep 5-7, 2019 at SAVEETHA MEDICON 2019, Saveetha Medical College, Chennai.
- Ms Pooja Mishra, B Arch, 5th year, participated in Star Student Awards 2019 (India's first category driven Awards in Architecture for academic projects) – a national level competition for academic projects and won the runners up position for her undergraduate Thesis Project – Nehamrit Farms: An agro tourism resort.



- Mr Raj Kumar, 3rd Exe M Arch, (CRESARC STUDIOS, Bangalore) Manipal School of Architecture and Planning was the Winner of "#A BETTER HEBBAL CHALLENGE", competition conducted and curated by "CIFOS - Citizens for Sustainability" encompassing main stakeholders of city planners and decision makers on August 31, 2019.





8. Ms Vidyut Rajhans, Research Scholar, Department of Optometry, Manipal College of Health Professions attended the 5th consortium meeting at Hadassah Academic College, Israel as part of OCULUS Erasmus activity during Sept 15-17, 2019. The consortium was sponsored by the Erasmus fund.
9. Mr Sachin Shetty, Research Scholar, Nuclear Medicine Technology, Department of Nuclear Medicine, MCHP, MAHE, Manipal, received the second prize for the "Thesis Presentation", which was held during Sep19-22, 2019 at Kasturba Medical College, Manipal.



10. Dr Natasha Raura, Dr Shweta E Jacob and Dr Shivangi Shekhar, first year post-graduates from the Department of Conservative Dentistry And Endodontics, MCOADS, Mangalore, won the best poster award for the poster titled "Nanoparticles: The Endodontic Future"- A review poster in the IACDE 2nd South Zonal Conference 2019 held at Dr TMA Pai, International Conventional Centre, Mangalore, Karnataka on August 9-10, 2019.



11. Dr Anirudh Garg, first year post-graduate, Department of Conservative Dentistry And Endodontics, MCOADS, Mangalore won the best poster titled "Root Canal Morphology - Decoding the complexities"- A review poster in the IACDE 2nd South Zonal Conference 2019 held at Dr TMA Pai International Conventional Centre, Mangalore, Karnataka on August 9-10, 2019.



12. Dr Janina Loren D'Souza and Dr Ankita Kanotra, 3rd year post-graduate students, Department of Conservative Dentistry and Endodontics, MCOADS, Mangalore, MAHE Manipal, won Best poster titled "Management of non-vital Immature permanent lateral incisor using amniotic membrane as a novel scaffold" in the IACDE 2nd South Zonal Conference 2019 held at Mangalore from Aug 9-10, 2019.



13. Dr Sandipan Mukherjee, third year post-graduate, Department of Prosthodontics and Crown and Bridge, Dr Sreelaxmi Pradeep and Dr Ishani Saluja, second year post-graduates, Department of Conservative and Endodontics, MCOADS, Mangalore bagged the best paper award for "Full Mouth Rehabilitation of a Patient with Severe Attrition and Loss of Vertical Dimension – A Case Report" in the 12th ISPRP National Conference 2019 held at Mysore during August 2-4, 2019.



14. Dr Vandana Daga, second year post-graduate, Department of Periodontology, MCOADS, Mangalore won the first place for poster titled "In conversation with our Gut- the Oral Gut Microbiome Axis" at ISP Colloquium organized by the Indian Society of Periodontology (ISP) in Mangalore during Aug 22-23, 2019.



15. Dr Alisha Ono Idris, Dr Tanay Chawda and Dr Amrita Bellap, first year post-graduate students from Department Of Prosthodontics and Crown and Bridge, MCOADS, Mangalore were awarded "Dr N P Patil Memorial Award" for the Best Scientific Poster presentation titled "The Virtual Metamorphosis of Articulation" at the 7th Annual State Conference organized by Indian Prosthodontic Society Karnataka Branch in Goa, during Sept 6-8, 2019.



16. Dr Jeny Emmanuel, second year post-graduate student, Department of Orthodontics, MCOADS, Mangalore won the Best Scientific Paper award for the research paper titled "Alternatives in Naso-Alveolar Molding – Probing New Dimensions in Facial Cleft Therapy" at the Zonal Orthodontic PG Convention 2019, held at Hassan on Sept 20-23, 2019.



17. Ms Divya Adiga, PhD student received the ICMR- Senior Research Fellowship for the project titled "Role of Double C2 like Domain Containing Protein Beta (DOC2B) as a Regulator of Senescence and Wnt Signaling". She is pursuing her PhD under Dr Shama K Prasada, Manipal School of Life Sciences.

18. Ms Neena George and Mr Guruprasad, PhD students working under the guidance of Dr K Satyamoorthy, Professor and Director, Manipal School of Life Sciences, MAHE, Manipal received the ICMR – Senior Research Fellowship. Their projects respectively are "Epigenetic Antagonism, Oncogenicity and Association with Senescence of Chromatin Modifiers in Human Cancers" and "Influence of Inflammation on Epigenetic Changes in Cancer".

19. The story "Bringing diagnosis from lab to smart phone" by Mr Sowmyabrata Banik, a BSc Biotechnology student, has been published in the August 2019 edition of "QS WOW News". Here is the link- https://content.qs.com/wownews/latest/index_30.html#page=1.

D. Awards and accolades

1. Dr Adarsh Kudva, Reader, Department of Oral and Maxillofacial Surgery, Manipal College of Dental Sciences, Manipal was conferred with travel grant at Chang-gung memorial hospital, Taiwan in the field of plastic and reconstructive microsurgery during the period July 2019 to June 30, 2020.
2. Dr Vasudev Ballal, Additional Professor, Department of Conservative Dentistry and Endodontics, Manipal College of Dental Sciences, MAHE, Manipal received "Top Peer Reviewer Award for 2019" by Publons in the field of clinical Medicine. Dr Ballal had received this Award previously in 2017 and 2018.
3. Dr Haneil Larson D'Souza, Associate Professor and District Medicolegal Consultant, Department of Forensic Medicine and Toxicology, Kasturba Medical College, Mangalore was honoured with Award for Oral Presentation titled "Pulmonary Thromboembolism in Organophosphorus Poisoning - A rare complication" at 10th International IAMLE Conference and Medico-Legal Conference Nepal held from Sep 12-15, 2019 at Kathmandu, Nepal.
4. Dr M V Prabhu, Dean, Kasturba Medical College, Mangalore received the best teacher award from IMA Mangalore on September 5, 2019.
5. Dr Pooja Rao, Associate Professor, Department of Microbiology, KMC Mangalore, received the MAC ID Best Publication Award 2018-19 during the conference 3rd Manipal International Infectious Diseases Conference 2019 - Theme: Tropical Infections and Global Health, held on Aug 10-11, 2019.
6. Dr Dhanashree B, Associate Professor, Department of Microbiology, KMC, Mangalore received the third prize for paper presentation titled, "Antibiotic Susceptibility and Biofilm productions by clinical isolates of Salmonella entericaserovars" at 3rd Manipal International Infectious Diseases Conference 2019 - Theme: Tropical Infections and Global Health, held on Aug 10-11, 2019.
7. Dr Ashwin Kamath K Anandaraya, Associate Professor, Pharmacology, Kasturba Medical College, Mangalore is awarded with a scholarship to attend the 12th Asian Conference on Pharmacoepidemiology, convened by the International Society of Pharmacoepidemiology, to be held during Oct 11-13, 2019 at the Kyoto International Exhibition Hall, Kyoto, Japan. The scholarship





covers the conference registration fee as well as attendance to one of the educational sessions. Additionally, he will be receiving a re-imbusement of travel and accommodation expenses

8. Ms Kusumakshi Nayak, Assistant Professor (Senior Scale), Department of Medical Laboratory Technology, MCHP, MAHE, Manipal received the second prize for E-Poster presentation during "URICON 2019" held on Sep 20-21, 2019 at MIOT International, Chennai.
9. Ms Asha Patil, Assistant Professor (Selection Grade), Department of Medical Laboratory Technology, MCHP, MAHE, Manipal won the third prize for E-Poster presentation during "URICON 2019" held on Sep 20-21, 2019 at MIOT International, Chennai.
10. Dr Kundabala, Professor, Department of Conservative Dentistry and Endodontics, MCOADS, Mangalore, MAHE Manipal was awarded "Ace- Karnataka Academic Excellence Award" for exceptional calibre and dedication to the field of Conservative Dentistry and Endodontics at the IACDE 2nd South Zonal Conference 2019 held at Mangalore during Aug 9-10, 2019.
11. Dr Nandita K P, Associate Professor, Department of Oral Pathology, MCOADS, Mangalore won the first prize for the poster titled, "Carrea's Index: A reliable tool for estimation of Stature" at 17th National Conference of Indian Forensic Odontology held at Maulana Azad Institute of Dental Sciences, New Delhi on Sep 21-22, 2019.



12. Dr Asavari Desai, Reader, Department of Orthodontics and Dentofacial Orthopedics, Manipal College of Dental Sciences, Mangalore received ICMR grant for the project titled "Assessment of the effect of a submucosal injection of Platelet rich plasma (PRP) on the rate of orthodontic tooth movement and expression of IL-1,IL-6 and TNF-alpha in the gingival crevicular fluid – A split mouth, randomised controlled trial."
13. Ms Ramya Ravi, Assistant Professor, Department of Pharmaceutical Quality Assurance, MCOPS, Manipal participated in 2nd International Conference on Fostering Interdisciplinary Research in Health Sciences (ICFIRHS) held during Sep14-15, 2019 at AIMST University, Malaysia. She



received the Best Oral Presentation award for the topic “A study on identifying factors affecting University- Industry Technology transfer – Indian Perspective”. Ms Ramya is pursuing her PhD under the guidance of Dr Manthan D Janodia, Professor and Head, Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, MAHE, Manipal.



14. Dr Richard Lobo, Associate Professor (Senior Scale), Department of Pharmacognosy, MCOPS, MAHE, Manipal was honoured with the Professor of the year (Pharmacognosy) Award, by Venus International Foundation, Centre for Health and Medical Sciences, Chennai, in 2nd Annual HealthCare Meet and Venus International Healthcare Awards on Sept 21, 2019 at Green Park Chennai, India.



15. Ms Aswathi R Hegde, Assistant Professor, Department of Pharmaceutics, Manipal College of Pharmaceutical Sciences was awarded the best poster for the paper titled “Liposomal nano-formulations of an anticancer drug for the effective treatment of breast cancer” at SYMBIOT 2019, a national level symposium organized by Department of Biotechnology and Institution of Engineers, Biotechnology Chapter (IEBT), Manipal Institute of Technology, Manipal on Sep 26, 2019 at Manipal Institute of Technology, Manipal. The study was carried out under the guidance of Dr Srinivas Mutalik, Professor and Head, Department of Pharmaceutics, MCOPS. Ms Hegde is pursuing her PhD under Professor Mutalik.



16. Dr Bhavana B Bhat, Assistant Professor, Department of Pharmacy Management, Manipal College of Pharmaceutical Sciences, MAHE, Manipal won “Best Poster Award” and a cash prize for the poster Presentation in the National Conference on Pharmacoeconomics and Pharmaco-epidemiology (NCPE) organized at JSS College of Pharmacy, Mysore during Sep 26-28, 2019. The work was co-authored by Dr D Sreedhar (Department of Pharmacy Management), Dr Sathish Nayak (Department of Gastroenterology), and Dr N Udupa (Director Research- Health Sciences).



17. Dr Lalit Kumar, Assistant Professor (Selection grade), Department of Pharmaceutics, MCOPS received Publons Peer Review Award 2019 in Pharmacology and Toxicology on Publons global reviewer database, determined by the number of peer review reports performed during the award

year 2018-19. Dr Lalit also received the Best E-Poster Presentation Award for his research work at the 24th Annual National Convention of Association of Pharmaceutical Teachers of India (APTICON-2019) during Oct 11-13, 2019 held at DIT, Dehradun (Uttarakhand), India.

18. Dr Sudha Warriar, Additional Professor, MIRM, Bangalore was conferred with travel grant for 1st International Molecular Medicine Conference, Amity University, Delhi, India during Aug 29-30, 2019.
- 19 Dr Gopal Pande, Professor and Dean, Dr Shagufta Parveen, Assistant Professor and Dr Suja Ann Mathew, Assistant Professor at MIRM, Bangalore received travel grants for 4th Annual Cell and Gene Therapy Symposium, Centre for Stem Cell Research, Bagayam, Vellore, India, during Sep 5-6, 2019.

Part II

A. **Featured researcher of MAHE**

Dr Guruprasad Kalthur, currently working as Professor in the Department of Clinical Embryology, obtained his Bachelor's degree in Botany, Zoology and Chemistry (BZC) from Mahatma Gandhi Memorial College, Udupi in 1995. Later, he obtained his Master's degree in Medical Biochemistry from Kasturba Medical College, Manipal in 1998. Dr Kalthur started his research career in the Department of Radiobiology, Kasturba Medical College as a junior research fellow under the guidance of Dr P Uma Devi and obtained his PhD degree in 2004. Subsequently, he joined as Assistant Professor and Clinical Embryologist in the Manipal Assisted Reproduction Center (MARC), Kasturba Medical College, Manipal, in the year 2005. He is an ICMR International Fellow (2017) and a recipient of several other prestigious fellowships such as the Yamagiwa-Yoshida Memorial International Study grant (YY-UICC) fellowship (2018), the award for research publication by Vision Group of Science and Technology, DST, Government of Karnataka (2013), Dr TMA Pai Gold Medal for Excellence in Medical Research (2009 and 2013), the CREST fellowship by the Department of Biotechnology, Government of India (2011), the BOYSCAST fellowship from Department of Science and Technology, Government of India (2009) and the UICC-ICRETT fellowship (2006). He is currently the coordinator of postgraduate program in Clinical Embryology and is actively involved in designing the curriculum for postgraduates in Clinical Embryology. His research interests are the optimization of cryopreservation techniques for gametes and gonadal tissues, understanding the maternal and paternal contribution to the development of early embryos, and assessing the reproductive toxicity of environmental factors and commonly used drugs. He has successfully completed several funded research projects from the Indian Council of Medical Research (ICMR), the Science and Research Engineering Board (SERB) and the Department of Biotechnology (DBT). Dr Guruprasad has established active research collaborations with reputed national and international research institutes such as St Johns Research Institute, Bengaluru; National Center for Biological Sciences, Bengaluru; New York University, Abu Dhabi and King Khalid University, Kingdom of Saudi Arabia. Dr Kalthur has initiated research collaboration with Dr Nagarajan Kannan, Stem cells and Cancer Biology Laboratory, Mayo Clinic, Rochester, USA and, is also appointed as Visiting Scientist and Research Collaborator since 2018. Dr Kalthur has mentored more than 30 postgraduate students and six PhD students. He has published over 65 research articles in journals of repute. He takes keen interest in stimulating the research culture in students and he firmly believes that for research, one has to have qualities like passion, patience, hard work and lateral thinking.



B. Top publications for the period July-September 2019

Title of the publication	Name of the author	Department/ Institution	Name of the Journal	Month & Year of Publication	1-Yr Impact
Placental Mesenchymal Stromal Cells as a tool for therapeutic angiogenesis – merits and challenges	Dr Suja Ann Mathew	Regenerative Medicine, School of Regenerative Medicine	Cellular and Molecular Life Sciences	September 2019	6.721
Combined effects of water emulsion and diethyl ether additive on combustion performance and emissions of a compression ignition engine using biodiesel blends	Dr Dinesha P, Dr Shiva Kumar	Mechanical Engineering, MIT, Manipal	Energy	July 2019	4.968
Status, trends and significance of parabolic trough technology in the changing heat transportation scenario	Mr Nakul Sreedhar, Dr Arunachala U Chandavar	Mechanical Engineering, MIT, Manipal	Solar Energy	July 2019	4.374
Naphthalimides in fluorescent imaging of tumor hypoxia – An up-to-date review	Rashmi Kumari, Dr Dhanya Sunil	Chemistry, MIT, Manipal	Bioorganic Chemistry	July 2019	3.929
Role of soaking time on the phase evolution of Cu ₂ ZnSnS ₄ polycrystals synthesized using melting route for photovoltaic applications	Dr Raviprakash Y, Nagabhushan J Choudhari	Physics, MIT, Manipal	Journal of Alloys and Compounds	August 2019	3.779
“Structural, electrical, optical and magnetic properties of SmCrO ₃ chromites: Influence of Gd and Mn co-doping”	Dr Ashok Rao	Physics, MIT, Manipal	Journal of Alloys and Compounds	July 2019	3.779
A critical review on production of bioethanol from macroalgal biomass	Niyam Dave, Dr Raja S, Dr Thivaharan V, Dr Ramesh V	Chemical Engineering, Biotechnology, MIT, Manipal	Algal Research	September 2019	3.745

Title of the publication	Name of the author	Department/ Institution	Name of the Journal	Month & Year of Publication	1-Yr Impact
R-PEKS: RBAC Enabled PEKS for Secure Access of Cloud Data	Mr Rajesh Rao K, Dr Ashalatha Nayak	Information and Communication Technology, Computer Engineering, MIT, Manipal	IEEE Access	September 2019	3.557
Performance Analysis of Semantic Segmentation Algorithms for Finely Annotated New UAV Aerial Video Dataset (ManipalUAVid)	Girisha S, Dr Ujjwal Verma, Dr Manohara M M Pai, Dr Radhika M Pai	Electronics and Communication Engineering, Information and Communication Technology, MIT, Manipal	IEEE Access	September 2019	3.557
Mechanical testing and microstructure characterization of glass fiber reinforced isophthalic polyester composites	Mr Ritesh Ramakrishna Bhat, Dr Mohan N S, Dr Sathya Shankara Sharma, Ashu Pratap, Agastya Prasad Keni, Dev Sodani	Mechanical Engineering, Industrial and amp; Production Engineering, MIT, Manipal	Journal of Materials Research and Technology	July 2019	3.398

A. Activities of MAHE Students' Research Forum (MAHE-SRF)

As part of MAHE-SRF 2019 activities, Summer Training Program 2019 was held at MAHE institutions. The summer training camp was conducted from June 3 – 12, 2019. This year, for a change, the program provided flexibility to the participants to opt for courses offered in the list. Out of the six courses offered, four were credited programs with 1 credit each. Over 45 students registered for different courses in the program. Some applied for multiple courses in the module and some, for a single course. The summer training program focused on providing the participants a basic training of different topics which consisted of both lectures and hands-on training to expose them to new areas of research and collaboration.

Date	Course Offered	Course Coordinator	Number of Participants
June 3-4	Python Programming (1 credit) (Department of Computer Science and Engineering, MIT)	Dr Narendra V G Dr Siddalingaswamy P C Mr Govardhan Hegde Ms Vidya Pai	15
June 5-6	Health Professions Module (Manipal College of Health Professions)	Dr N Manikandan	7
June 7-8	Advanced Materials and Methods for New Generation Sustainable Concrete (1 credit) (Department of Civil Engineering, MIT)	Dr Shreelaxmi Prashanth	2
June 7-8	Pre-Clinical Drug Discovery and Developmental Studies (1 credit) (Manipal College of Pharmaceutical Sciences)	Dr Usha Y Nayak	18
June 10	Laboratory Diagnosis of Foodborne Infections (Department of Microbiology, KMC)	Dr Mamatha Ballal	6
June 11-12	Research Methodology and Data Analysis using SPSS (1 credit) (Department of Commerce)	Mr Kishore L	11





Editorial Team

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MAHE, Manipal
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3. Dr Bharti Chogtu Magazine, Deputy Director Research
(Health Sciences)
MAHE, Manipal
4. Dr Santhosh K V, Deputy Director Research (Technical Sciences)
MAHE, Manipal
5. Dr Rekha R Shenoy, Associate Professor
Department of Pharmacology, Manipal College of Pharmaceutical
Sciences, MAHE, Manipal
6. Dr Manthan D Janodia, Professor and Head
Department of Pharmacy Management, Manipal College of
Pharmaceutical Sciences, MAHE, Manipal