

MANIPAL UNIVERSITY RESEARCH BULLETIN

January 2015



INSPIRED BY LIFE

MANIPAL
UNIVERSITY

Manipal 576104, Karnataka, India

Editorial Team

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Manipal University, Manipal
2. Dr Raghuvir Pai, Director Research (Technical),
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3. Dr Raviraja Adhikari, Associate Director (Development),
Manipal Institute of Technology, Manipal
4. Dr Manthan Janodia, Associate Professor,
Manipal College of Pharmaceutical Sciences, Manipal
5. Dr Rekha Shenoy, Associate Professor,
Manipal College of Pharmaceutical Sciences, Manipal



Manipal University (MU) is one of the premier Universities in India. MU considers research to be of equal importance as academics for the betterment of an institution. Research culture has been embraced well by the faculty members and research scholars at MU. The most common methods to publicize research are through scientific publications, presentations at conferences, patents, grants, etc. In this report, we present to you an overview of the research activities of Manipal University.

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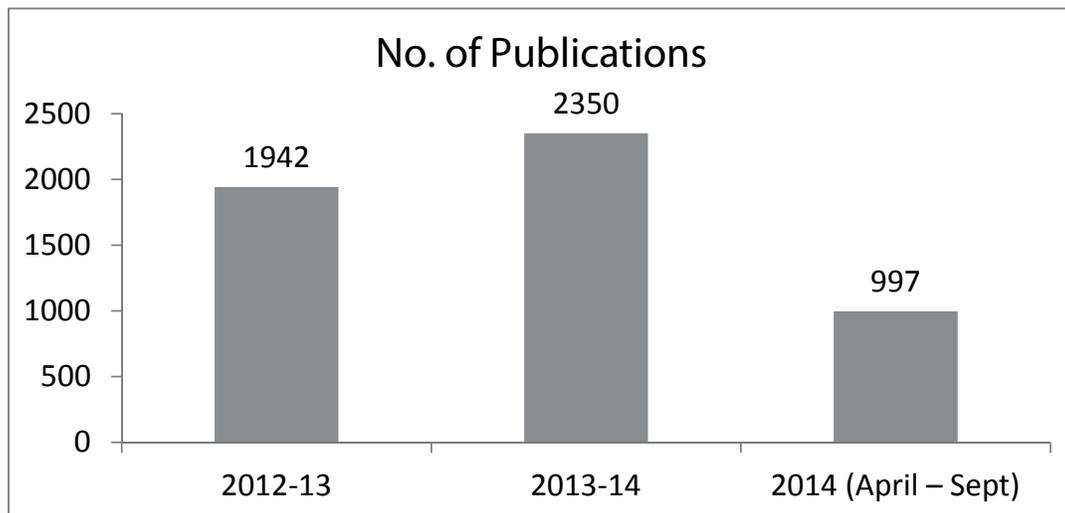
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Part I

A. Publications in Scientific Journals

The total number of publications from Manipal University is depicted below:

Number of papers published in scientific journals from 2012 to 2014



Top 10 publications

Health Sciences

No.	Author	Institution	Journal	Journal Impact Factor
1	<i>Renske DM Steenbergen, Mate Ongenaert, Suzanne Snellenberg, Geert Trooskens, Wendy F van der Meide, Deeksha Pandey, Noga Bloushtain-Qimron, Kornelia Polyak, Chris JLM Meijer, Peter JF Snijders and Wim Van Criekinge</i>	Department of Pathology VU University Medical Centre, Amsterdam, The Netherlands; BioBix, Department of Mathematical Modelling, Statistics and Bioinformatics Ghent University, Belgium; Centre for Medical Genetics, Ghent University, Belgium; Department of Medical Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA, USA Department of Obstetrics and Gynaecology, Kasturba Medical College, Manipal University, Manipal,	Journal of Pathology	7.585
2	<i>Laxminarayan Karanth, Ankur Barua, Sachchithanantham Kanagasabai, <u>N S Nair</u></i>	Department of Obstetrics and Gynecology, Melaka Manipal Medical College, Melaka, Malaysia, Department of Community Medicine, International Medical University, Kuala Lumpur, Malaysia, Department of Statistics, Manipal University, Manipal	Cochrane Database of Systematic Reviews	5.912

No.	Author	Institution	Journal	Journal Impact Factor
3	Shama Prasada Kabekkodu, Samatha Bhat, Raghu Radhakrishnan, Abhijit Aithal, Roshan Mascarenhas, Deeksha Pandey, Lavanya Rai, Pralhad Kushtagi, Gopinath Puthiya Mundyat and Kapaettu Satyamoorthy	Division of Biotechnology, Manipal Life Sciences Centre, Manipal University, Manipal, Department of OBGYN, Kasturba Medical College, Manipal University, Manipal, Department of OBGYN, Kasturba Medical College, Manipal University, Mangalore	Journal of Biological Chemistry	4.651
4	Kamlesh Dattaram Mumbreakar, Donald Jerard Fernandes, Hassan Venkatesh Goutham, Krishna Sharan, Bejadi Manjunath Vadhiraaja, Kapaettu Satyamoorthy and Satish Rao Bola Sadashiva	Division of Radiobiology and Toxicology, School of Life Sciences, Manipal University, Department of Radiotherapy and Oncology, Shirdi Sai Baba Cancer Hospital and Research Centre, Kasturba Hospital and Division of Biotechnology, School of Life Sciences, Manipal University, Manipal and Manipal Hospital, Bangalore.	International Journal of Radiation Oncology Biology Physics	4.524
5	Lorena Travaglini, Girisha K M, Enza Maria Valente	IRCCS Casa Sollievo della Sofferenza, Mendel Laboratory San Giovanni Rotondo, San Giovanni Rotonda, Italy, KMC, Manipal and Department of Medicine and Surgery, University of Salerno, Salerno, Italy	European Journal of Human Genetics	4.319
6	Mohammad Kanafi, Debanjana Majumdar, Ramesh Bhonde, Pawan Gupta and Indrani Datta	Manipal Institute of Regenerative Medicine, Manipal University, Bangalore, Karnataka, India	Journal of Cellular Physiology	4.218
7	Shama Prasada Kabekkodu, Samatha Bhat, Roshan Mascarenhas, Sandeep Mallya, Manoj Bhat, Deeksha Pandey, Pralhad Kushtagi, Kumarasamy Thangaraj, P M Gopinath and Kapaettu Satyamoorthy	Division of Biotechnology, Manipal Life Sciences Centre, Manipal University, Manipal, Department of Obstetrics and Gynecology, Kasturba Medical College, Manipal University, Manipal and Centre for Cellular and Molecular Biology, Hyderabad	Mitochondrion	4.025
8	Sanjiban Chakrabarty, Reena Reshma D'Souza, Shama Prasada Kabekkodu, Puthiya M Gopinath, Rodrigue Rossignol and Kapaettu Satyamoorthy	Division of Biotechnology, Manipal Life Sciences Centre, Manipal University, Manipal, Institut National de la Sante et de la Recherche Medicale (INSERM), U688 Physiopathologie Mitochondriale, Universite Victor Segalen Bordeaux, France	Mitochondrion	4.025

No.	Author	Institution	Journal	Journal Impact Factor
9	Amirtharaj Francis, Singh Pooja, Singh Rajender, Periyasamy Govindaraj, Nageswara Rao Tipiriseti, Daminani Surekha, Digumarthi Raghunatha Rao, Lakshmi Rao, Lingadakai Ramachandra, Satti Vishnupriya, K. Ramalingam, Kapaettu Satyamoorthy and Kumarasamy Thangaraj	CSIR- Centre for Cellular and Molecular Biology, Hyderabad, Endocrinology Division, CSIR- Central Drug Research Institute, Lucknow, Department of Pathology, Chhatrapati Sahuji Maharaj Medical University (CSMMU), Lucknow, Department of Biomedical Science, School of Basic Medical Sciences, Bharathidasan University, Tiruchirappalli, Department of Genetics, Osmania University, Hyderabad, Nizam's Institute of Medical Sciences, Hyderabad, Department of Pathology, Kasturba Medical College, Manipal University, Department of Surgery, Kasturba Medical College, Manipal University, Manipal, Department of Advanced Zoology and Biotechnology, Government Arts College, Chennai and Manipal Life Sciences Center, Manipal University, Manipal, India	Mitochondrion	4.025
10	Padmalatha S Rai, Ganesh C Pai, Jose F Alvares, Ravishankara Bellampalli, Puthiya M Gopinath and Kapaettu Satyamoorthy	Division of Biotechnology, School of Life Sciences, Planetarium Complex, Manipal University and Department of Gastroenterology, Kasturba Medical College, Manipal University, Manipal	Pharmacogenomics	3.857

Technical Sciences

No.	Author(s)	Institution	Journal	Journal Impact Factor
1	Lobsiger S, Blaser S, Rajeev K Sinha, Hans-Martin Frey and Leutwyler S	Department of Chemistry and Biochemistry, University of Bern, Switzerland; Department of Atomic and Molecular Physics, Manipal University, Manipal	Nature Chemistry	21.76
2	Lobsiger S, Rajeev Kumar Sinha and Leutwyler S	Department of Chemistry and Biochemistry, University of Bern, Switzerland; Department of Chemistry, University of Virginia, US; Department of Atomic and Molecular Physics, Manipal University, India	The Journal of Physical Chemistry B	3.377
3	Arun Kumar, Asraf Ali, K N Vinod, Amit Kumar Mondal, Hemant Hegde, Ashok Menon, B H S Thimappa	Innovative Plastics Program, GE India Technology Centre, Bangalore and Department of Chemistry, Manipal Institute of Technology, Manipal University, India	Journal of Molecular Catalysis A: Chemical	3.187

No.	Author(s)	Institution	Journal	Journal Impact Factor
4	Ajeetkumar Patil, Khoobaram S Choudhari, Vayakkara Kolaprath Unnikrishnan, Nandita Shenoy, Ravikiran Ongole, Keerthilatha M Pai, Vasudevan Bhaskaran Kartha and Santhosh Chidangil	Centre for Atomic and Molecular Physics, Manipal University, Manipal; Manipal College of Dental Sciences, Department of Oral Medicine and Radiology, Attavar, Mangalore; Manipal College of Dental Sciences, Department of Oral Medicine and Radiology, Manipal; Udayagiri Sion, Mumbai	Journal of Biomedical Optics	2.881
5	V K Unnikrishnan, K S Choudhari, Suresh D Kulkarni, Rajesh Nayak, V B Kartha and C Santhosh	Centre for Atomic and Molecular Physics, Manipal University, Manipal	RSC Advances	2.562
6	M Abd-Lefdil, A Belayachi, S Pramodini, P Poornesh, A Wojciechowski and A O Fedorchuk	Materials Physics Laboratory, University of Mohammed V- Agdal, Rabat, Morocco; Nonlinear Optics Research Laboratory, Department of Physics, Manipal Institute of Technology, Manipal University; Electrical Engineering Department, Czestochowa University Technology, Armii Krajowej, Poland; Department of Inorganic and Organic Chemistry, Lviv National University of Veterinary Medicine and Biotechnologies, Lviv, Ukraine	Laser Physics	2.545
7	K K Nagaraja, S Pramodini, A Santhosh Kumar, H S Nagaraja and P Poornesh	Materials Research Laboratory, Department of Physics, National Institute of Technology Karnataka, Surathkal; Nonlinear Optics Research Laboratory, Department of Physics, Manipal Institute of Technology, Manipal University, Manipal	Laser Physics	2.545
8	S Pramodini and P Poornesh	Nonlinear Optics Research Laboratory, Department of Physics, Manipal Institute of Technology, Manipal University, Manipal	Laser Physics	2.545
9	S Pramodini, Y N Sudhakar, M Selvakumar and P Poornesh	Nonlinear Optics Research Laboratory, Department of Physics and Department of Chemistry, Manipal Institute of Technology, Manipal University, Manipal	Laser Physics	2.545
10	Khoobaram S Choudhari, Pacheeripadikkal Jidesh, Parampalli Sudheendra and Suresh D Kulkarni	Centre for Atomic and Molecular Physics, Manipal University, Manipal; Department of Mathematical and Computational Sciences and Department of Metallurgical and Materials Engineering, National Institute of Technology Karnataka, Surathkal	Microscopy and Microanalysis	2.495

Achievements

Manipal University faculty member publishes research paper in 'Nature Chemistry' with an Impact factor 21.76



Dr Rajeev Kumar Sinha, Department of Atomic and Molecular Physics, Manipal University (MU), published his research work in Nature Chemistry, which has an Impact Factor of 21.76. The details of the paper are as follows:

Lobsiger S, Blaser S, Rajeev K Sinha, Frey HM & Leutwyler S, "Switching on the fluorescence of 2-aminopurine by site-selective micro-hydration", Nature Chemistry 6, 989–993 (2014).

Manipal University congratulates Dr Sinha for his outstanding achievement.

Dr Sathish Adiga appointed as a Research Ambassador from German Academic Exchange Service (DAAD), Federal Republic of Germany for three years



Dr Satish Kumar Adiga, Professor, Human Fertility and Clinical Embryology, Division of Clinical Embryology, Kasturba Medical College (KMC), Manipal University (MU), Manipal, India has been appointed as a Research Ambassador from German Academic Exchange Service (DAAD), Federal Republic of Germany for three years.

DAAD Research Ambassadors are the partners in pursuit of excellence by being a reliable and trustworthy source of information on education and research in Germany. They are the think-tank and first point of contact for initiating academic cooperation and projects, planning visits of high-level delegations from Germany and are role-models for the next generation of students and scholars.

Dr Adiga is a recipient of several prestigious fellowships such as Alexander von Humboldt foundation fellowship, Germany and JSPS fellowship, Japan. He has received several gold medals for excellence in medical research including Sir CV Raman State Award for best research in medical science from Karnataka Government recently.

Manipal University Shines during 22nd Cochrane Colloquium held at Hyderabad from September 21-26, 2014



22nd Cochrane Colloquium was organized in Hyderabad from September 21-26, 2014

The Cochrane Collaboration is the largest, independent, not-for-profit, charitable, international organization working on evidence informed healthcare. The Cochrane library, which has an impact factor above 6.5, is the database of all evidences created by the Cochrane contributors.

The Colloquium was held for the first time in India. In this weeklong event of learning, Manipal University was amply represented among 750 delegates. Dr Sreekumaran Nair, Professor, Department of Biostatistics, Manipal University was one of the four co-chairs for the colloquium. Dr Nair also co-chaired various sessions of the colloquium. Nine delegates from Manipal University, including seven from Public Health Evidences South Asia (PHESA), participated in the colloquium.

Dr Nair delivered a talk on “Bayesian methods in public health systematic reviews” where the application of Bayesian methods was highlighted in the context of public health reviews. This work is carried out with Ms Melissa Glenda Lewis, Research Scholar, Manipal University. A Poster titled “A tool to measure complexity in public health intervention” was presented by Mr Ravishankar N, Research Scholar, Manipal University. Ms Melissa Glenda Lewis will be mentored by Dr Elizabeth Waters, Coordinating Editor of Cochrane Public Health Group and winner of the Anne Anderson Award.

Members of Manipal University chaired three sessions, delivered talks, presented posters, won an award and were successful in receiving a World Health Organization (WHO) grant during the colloquium interactions.

Recipients of Research Funds from Vision Group of Science and Technology (VGST), Government of Karnataka, India

Name	Department/Institution	Title of the project	Scheme
Dr Mahesha M G	Department of Physics, MIT	Investigation of potential alternatives for window layer to improve the efficiency of CdTe based solar cells	KFIST Level 1
Ms Shubhashree Uppangala	Department of Obstetrics and Gynaecology, KMC, Manipal	Metabolomics based non-invasive detection of genetically normal human embryos	SMYSR
Dr Shounak De	Electronics and Communication Engineering, MIT	Low cost Fabrication of Nanoscale patterns using soft Lithography	SMYSR
Dr Pragna Rao	Department of Biochemistry, KMC	To Establish a Newborn Screening Lab and to Initiate the Mass Screening program to reduce the mortality and morbidity of newborn children	CESEM

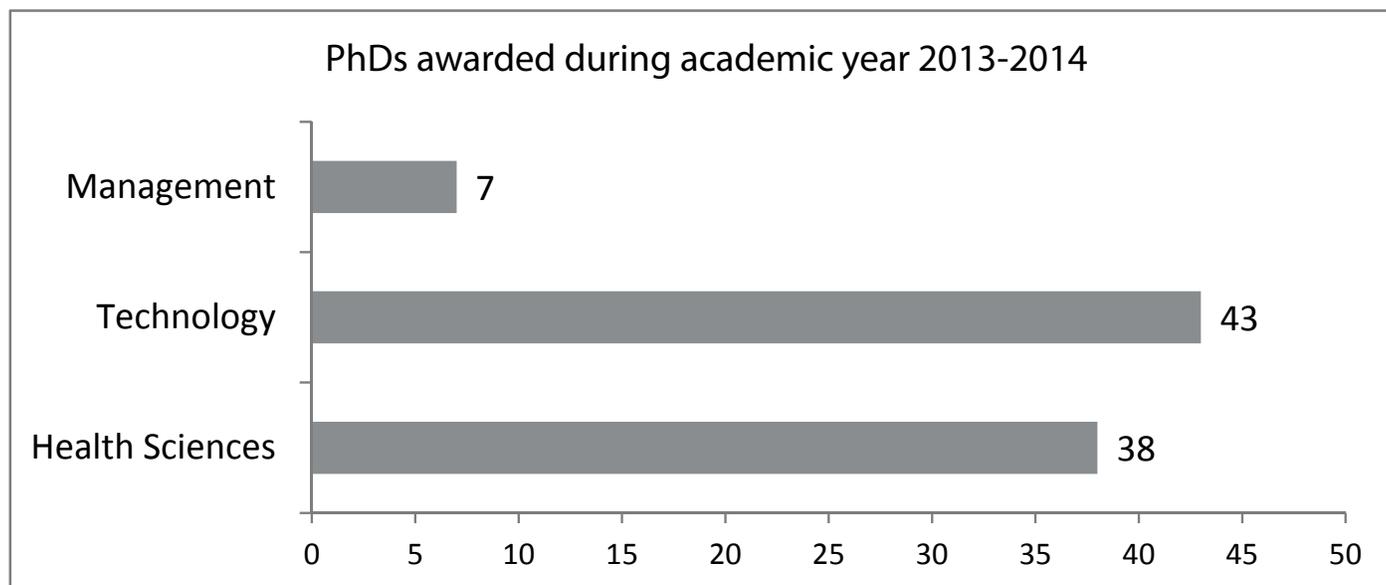
Recipients of Endeavour Executive Fellowships for 2015

Name	Department/Institution	Visiting University
Dr Shyamala Hande	Melaka Manipal Medical College (MMMMC), Manipal Campus	University of Western Australia and University of Sydney
Mr Abraham Samuel Babu	School of Allied Health Sciences (SoAHS), Manipal	University of Melbourne
Ms Krithica S	School of Allied Health Sciences, Manipal	University of Melbourne

B. PhD Awardees

638 candidates have been awarded with PhD degree till date.

Number of PhDs awarded during academic year 2013-2014



C. Ongoing research projects at Manipal University

Number of ongoing research projects at Manipal University ~300

Major Ongoing Research Projects

No.	Institution/Department	Project
1	Department of Virus Research	Hospital -based Surveillance of Acute Febrile Illness in Western Ghats Region of India
2	Department of Virus Research	ICMR Virology Network Laboratory (Grade-I)
3	Department of Virus Research	Avian Influenza Project
4	Kasturba Medical College, Manipal	Rotavirus vaccine trial
5	Manipal Institute of Technology	Department of Science and Technology (DST)
6	Manipal Institute of Technology	Technology Development Board (TDB)
7	Manipal Institute of Technology, Manipal	Seed Support System (SSS)
8	Manipal College of Pharmaceutical Sciences	DST - FIST project
9	Department of Atomic and Molecular Physics	DST - FIST project
10	School of Life Sciences	DST - FIST project
11	School of Life Sciences	Asthma (DST, India)
12	School of Life Sciences	Humanized antibodies (BIRAC-DBT)
13	School of Nursing, Manipal	Capacity Building for Nurse Educators to conduct multidisciplinary research in geriatric area

D. Research and Training Programs to be conducted by Directorate of Research, Manipal University

Directorate of Research, Manipal University organizes training and awareness programs for the benefit of faculty members and research scholars of Manipal University. Some of these programs would be conducted in various campuses of Manipal University (Manipal, Mangalore and Bangalore) that are highlighted below.

Month	Topics for the Training Program
January 2015	Research Collaborations Research Protocol Clinical Research Guidelines Ethics and Good Research Practices
February 2015	Plagiarism check and editing - Use of Turnitin software for Research Publications (along with Manipal University Press (MUP)) Entrepreneurship and Industry Institute Interactions Innovation, Incubation and Technology Transfer
March 2015	Grant writing process and Research funding opportunities IPR and Patent Filing Quality of Research and University Ranking Guidelines and policy for guideship and mentorship

E. Collaborations – National, International and Industry

Manipal University has collaborations with various institutions and universities in India and abroad. Collaborations with foreign universities encourage student exchange programs, promoting scientific research, exchange of academic staff, student and researchers. The national collaborations comprise joint research projects. Some of the elite institutions, with which Manipal University has collaborations, include Indian Institute of Sciences (IISc), Bangalore; National Institute of Technology, Karnataka (NITK) Suratkal; Bhabha Atomic Research Center (BARC), Mumbai; Central Drug Research Institute (CDRI), Lucknow; National Botanical Research Institute (NBRI), Lucknow; National Centre for Biological Sciences (NCBS), Bangalore.

Visit to Manipal University by Professor Bart Loeys, Department of Medical Genetics, University of Antwerp, Belgium



Professor Bart Loeys, Department of Medical Genetics, University of Antwerp, Belgium visited Manipal University.

Prof Loeys delivered a guest lecture to the faculty members of Manipal University on the topic “The Journey from Marfan to Losartan via Loeys-Dietz Syndrome” on November 17, 2014.

Dr Loeys’s area of interest is connective tissue disorder. He is credited with identifying a new aortic aneurysmal disorder, which is now called Loeys-Dietz Syndrome. Dr Loeys also discovered a new disease gene, fibulin 5, which causes autosomal recessive cutis laxa. Dr Loeys is a highly acclaimed researcher with more than 100 research papers, published in international peer reviewed journals.

F. Manipal University Ranking

Manipal is the only private university among top 100 in BRICS ranking. Manipal University is ranked 85 in BRICS ranking by QS in the year 2014.

In another ranking by Ranking Web of Universities (Webometrics), Manipal University is ranked 11 among Indian Universities and institutions. Similarly, in the World ranking of Universities, Manipal University is ranked 1565 by Webometrics

Manipal University Ranking, based on SCImago Institutional Rankings, has improved over years. This is shown in following table.

Ranking*	2009	2010	2011	2012	2013	2014
WR	-	2115	1625	1118	997	994
RR	-	528	425	271	268	268
CR	-	55	36	19	19	19

Source: SIR: SCImago Institutional Ranking

*WR: World Ranking; RR: Regional Ranking; CR: Country Ranking

G. Manipal Research Colloquium

Manipal Research Colloquium for the year 2015 is planned during April 6-7, 2015. The focused areas of research for the Colloquium include Health Sciences, Engineering and Technology, Management, Humanities and Social Sciences.

H. Manipal University Faculty members in Scientific Journals' Editorial Team

Faculty members of Manipal University have been actively involved in research and are a part of Editorial and Scientific Advisory Teams of many prestigious national and international scientific journals. The details are provided.

No. of faculty members of MU in the Editorial/ Advisory Board of Scientific Journals	No. of Journals where faculty members of MU are in Editorial/Advisory Board of Scientific Journals
~90	~165

Part II

Manipal University Board of Management had approved the establishment of Dr T M A Pai Endowment Chairs for research and education in 2012 under the aegis of Dr Ramdas M Pai, Chancellor, MU. These chairs facilitate research promotion activities and conduct programs like symposia, workshops, read and share sessions, etc., to keep the academicians and scholars updated of the latest development.

A. Dr T M A Pai Endowment Chair recipients

No.	Name of Dr T M A Pai Endowment Chair	Name, Designation and Institution of the awardee
1	Translational Virology	Dr G Arunkumar , MSc, PhD Professor and Head, Manipal Centre for Virus Research Nodal Officer (Influenza Lab) (Regional Reference Laboratory for Influenza Viruses, ICMR Virology Network Laboratory-Grade-I & Sentinel Surveillance Laboratory for Arboviruses)
2	Mendelian Genetics	Dr Girisha K M MD Paediatrics, DM (Medical Genetics) Professor, Division of Medical Genetics Department of Paediatrics Kasturba Medical College, Manipal
3	Human Fertility & Clinical Embryology	Dr Satish Kumar Adiga , MSc, MCE, PhD Professor, Clinical Embryology Department of Obstetrics & Gynaecology Kasturba Medical College, Manipal
4	Systemic Reviews & Evidence Based Public Health	Dr N Sreekumaran Nair , MSc (Statistics), PhD Professor and Head Department of Statistics
5	Translational Genome Science	Dr K Satyamoorthy , MSc, PhD Professor and Director School of Life Sciences
6	Inflammatory Bowel Diseases	Dr C Ganesh Pai , MD, DM Gastroenterology Professor and Head Department of Gastroenterology & Hepatology Kasturba Medical College, Manipal
7	Novel Drug Delivery System	Dr N Udupa , MPharm, PhD Director - Research (Health Sciences)
8	Data Analytics and Cloud Computing	Dr Manohara Pai M M , MTech, PhD Professor, Department of ICT Associate Director, Innovation Centre CEO and Secretary, MUTBI (DST, Government of India supported Incubator)

No.	Name of Dr T M A Pai Endowment Chair	Name, Designation and Institution of the awardee
9	Exercise Sciences and Health Promotion	Dr G Arun Maiya , MPT, MBA (Healthcare Management), PhD Professor Department of Physiotherapy Manipal College of Allied Health Sciences, Manipal
10	Enteric Bacterial Pathogens	Dr Mamatha Ballal , PhD, FIMSA Professor and Head Department of Clinical Microbiology & Immunology KMC International Centre
11	Public Health Genomics	Prof Angela Brand , MD, PhD, MPH (Johns Hopkins, USA) Full Professor for Social Medicine and Public Health Genomics, Institute for Public Health Genomics (IPHG) Cluster of Genetics and Cell Biology Faculty of Health, Medicine and Life Sciences, Maastricht University, The Netherlands
12	Medical Education	Dr Vinay Kumar , MBBS, MD, FRCPath Donald N Pritzker Professor Chairman, Department of Pathology, Biologic Sciences Division and The Pritzker Medical School University of Chicago, USA
13	Participatory Action Research	Dr Basanti Bhaduri Majumdar , MSc(N), MEd, PhD Professor, School of Nursing and Graduate Studies, Health Sciences McMaster University Adjunct Professor Manipal College of Nursing, Manipal
14	Geriatrics and Gerontology	Dr Prabha Adhikari M R Professor, Department of Medicine Kasturba Medical College, Mangalore KMC Hospital, Attavar, Mangalore
15	Islet Engineering and Banking	Prof Ramesh Bhonde Dean, Manipal Institute of Regenerative Medicine GKVK Post, Bellary Road Allalassandra, Near Hotel Royal Orchid Yelahanka, Bangalore
16	Earth Sciences	Dr K Balakrishna Associate Professor – Senior Scale Department of Civil Engineering Manipal Institute of Technology
17	Bioethics	Nandini K Kumar Adjunct Professor Kasturba Medical College, Manipal

No.	Name of Dr T M A Pai Endowment Chair	Name, Designation and Institution of the awardee
18	Pre-diabetes	Dr Sudha Vidyasagar Professor and Head Department of Medicine Kasturba Medical College, Manipal
19	Translational Epidemiology and Implementation Research	Dr Madhukar Pai, MD, PhD Director, McGill Global Health Programs Associate Professor, McGill University Associate Director, McGill International TB Centre Department of Epidemiology & Biostatistics Montreal (Quebec), Canada QC H3A 1A2
20	Laboratory Quality Management	Dr Pragna Rao Professor and Head Department of Biochemistry Faculty Advisor, KMC Student Research Forum Kasturba Medical College, Manipal
21	Mathematics	Prof M S Narasimhan Professor of Mathematics & Honorary Fellow Centre for Applicable Mathematics International Centre for Theoretical Sciences, TIFR Centre Building, IISc Campus, Subedarpalya, Malleshwaram, Bangalore
22	Dharma	Manipal Centre for Philosophy and Humanities
23	Social Entrepreneurship	Dr Harisha G Joshi Associate Professor School of Information Science, Manipal University
24	Hospital Infection	Dr Gopalkrishna Bhat K Additional Professor Department of Microbiology Kasturba Medical College, Mangalore
25	Biophotonics	Dr Santhosh Chidangil Professor and Head Centre for Atomic and Molecular Physics, Manipal University
26	Architectural Conservation	Dr Kailash Rao Faculty of Architecture Manipal University
27	Cognition	Prof M K Unnikrishnan Department of Pharmacy Practice Manipal College of Pharmaceutical Sciences Manipal University

B. Featured Scientist of Manipal University



Dr K Satyamoorthy, Director, School of Life Sciences, Manipal University

Translational genomics incorporates multi-institutional expertise in the field of public health, genetics, genomics and environmental factors to forge a viable and strong partnership for disease prevention. Health disparities that are apparent due to accumulation of large scale genome data need to be dealt with. ‘You are who you are working with’ were Dr Satyamoorthy’s words, when enquired of research activities. He says that the R&D team at School of Life Sciences (SOLS), Manipal has done a commendable contribution to the society in comparison to their peers. *However, considering the literacy rate in this region, R&D output is insignificant and not cutting edge*, he adds. He considers himself fortunate to have young researchers groomed to solve health related research issues, especially in areas of cell biology and genome sciences.

Coastal Karnataka Chapter of Society of Biological Chemists was set up three years ago under the leadership of Dr Satyamoorthy to harness and expose local talents to seek help in solving health problems. His message to budding scientists - “Be prepared to face adversities, yet learn not to give up”. Dr Satyamoorthy strongly believes that their team’s best is yet to come.

Part III

A. Manipal University Students' Research Forum (MUSRF)

Manipal University Students' Research Forum (MUSRF) is a student-body dedicated to inculcate research interest among undergraduate and postgraduate students.

MUSRF functions under the aegis of Directorate of Research, Manipal University, Manipal. The support and guidance for MUSRF activities is provided by Dr N Udupa, Director - Research, (Health Sciences) and Dr Raghuvir Pai B., Director - Research (Technical), Manipal University.

MUSRF serves as a platform for students (undergraduates, postgraduates and research scholars) of the constituent institutes of Manipal University for learning, collaboration and professional development, through continuous programs in both teaching and research.

MUSRF was constituted on October 19, 2013 and formally inaugurated on November 14, 2013 by Dr K Ramnarayan, Vice Chancellor, Manipal University, Manipal. Dr Vasantha Muthuswamy, Former Director, ICMR, New Delhi was the Guest of Honour.

MUSRF Office Bearers for the year 2013-2014 were:

President: Partha Dabke, KMC, Manipal; Vice-President: Sundar Kumar, School of Allied Health Sciences (SOAHS), Manipal; General Secretary: Rajarshi Paul, Manipal Institute of Technology (MIT), Manipal; Treasurer: Arjun Chakrapani, KMC, Manipal; Web Master: Chethan G H, Manipal College of Pharmaceutical Sciences (MCOPS), Manipal; Media/Public representative: Babasish Nanda, School of Communication (SOC), Manipal

MUSRF Office Bearers for the year 2014-2015 are:

President: Mr Prateek Jain, MCOPS; Vice Presidents: Ms Dhanashree R Gunjawate, SOAHS; Mr Akshit Awasthi, KMC, Manipal; General Secretary: Mr Mit Desai, MIT; Joint Secretaries: Mr Nagarajan Trivedi, SOAHS; Mr Jay Jetani, MCOPS; Mr Raghu K S, SOLS; Event Coordinator: Ms Prachi Jalota, KMC, Manipal; Joint Event Coordinator: Mr Arup Saha, KMC, Manipal; Webmaster: Mr Shashi Kumar, SOAHS; Public Relation Officers: Ms Tanya Sinha, MCOPS; Ms Sanchita Chandar, MCODS, Mangalore; Media Representatives: Mr Tanmay Agarwal, KMC, Manipal; Ms Sohini Ray, KMC, Manipal; Treasurer: Ms Akanksha Verma, Department of Commerce (DOC); Joint Treasurer: Mr Rajat Agarwal, KMC, Manipal; Sponsorship Manager: Mr Rohan Madan, KMC, Manipal; MUSRF Contact Person: Ms Kala Roopa, KMC, Manipal

Various Activities Performed by MUSRF during 2013-2014

Student Research Poster Competition (SRPC 2014)

Student Research Poster Competition (SRPC) was held during Manipal Research Colloquium (MRC) on 11 and 12 April 2014 for UG and PG students. 180 scientific posters were displayed, spread over four sessions and prizes were distributed to the best presentations in each discipline.



Summer Training 2014

Summer Training 2014 was organized during 16 June to 12 July 2014 under four modules, Module 1: Interdisciplinary Sciences (Theme-Biometrics: Integrating computer science into medical practice) Module 2: Research Methods (Theme-Biostatistics, science writing, systemic reviews and meta-analysis); Module 3: Pharmaceutical Sciences (Theme-Development, evaluation and delivery of drug products) and Module 4: Health Sciences (Theme-Experimentation and laboratory investigation in clinical medicine), each of one-week duration. Nearly 120 participants registered for the summer training with an average of 40 in each module.