

Global Medical Education and Research Foundation

4th Annual Report, 17th August 2016

Today GMERF is 4 years old. It has made steady progress, thanks to patronage and support from its president Dr. K. Ravindranath, Dr. P. Rama Rao, the Chairman of the Advisory Board, all advisory board members, our associate academic institutions, staff of Global Hospitals LKP and AWGH and all of you.

GMERF aims to bring all academic programs of our hospital under one roof in addition to offering its own research, training and academic programs. We would like to share with you our activities and achievements during 2015-16.

Training Activities:

A total of 179 students underwent training under the auspices of GMERF in various disciplines during 2015-16. This includes Pharm D students (42), Nutrition (34), DNB (6) Molecular Diagnostics & Biomarkers (40), Health Psychology (41), Advanced PG Diploma in Healthcare Technology (2). 5 students of B.Sc Genetics and B.SC Biochemistry from St. Ann's College and students of Industrial Microbiology from St. Francis College for women have completed one month Internship in May-June.2016

Academic Programs- Courses Launched

Advanced PG Diploma Courses in Health Care Technology

GMERF is interested in offering several health care technology courses to those young graduates in life sciences, nursing and pharmacy who are interested in joining the health care industry. Two important skill development programs were launched as Advanced PG Diploma Courses during 2015-16.

These courses are of two years duration (4 semesters) with the first semester dedicated to a foundation course in basic medical sciences, 2 semesters of intense training in the hospital in the respective departments imparting case studies, advanced theory, practical training and last semester devoted to internship. The students of Advanced PG Diploma Course in Physician Assistance and Clinical Nutrition & Dietetics have completed their first semester and moved to second's semester.

Career Oriented course

GMERF launched Career Oriented Certificate course in Molecular Diagnostics for BSc students of St. Ann's College for Women, (Autonomous), Mehdipatnam. The course is of one year duration. 21 students of St. Ann's college have registered for the above course. The Classes started from 22nd June, 2016.

Pre-Medical Course of five and half year Doctor of Medicine (MD) course:

This course directly admits students who have completed 12th Class/Intermediate into a 5.5 year MD Course. On behalf of Xavier University Medical School, Aruba, Dutch Caribbean Island, GMERF in collaboration with Centre for Professional Development at St. Francis College for Women has launched a 1.5 year, 3 semester Pre-Medical Course. Admitted students would do a 1.5 years (3 semesters) premedical course at St. Francis College for Women. Subsequently they move on to 2 years of study in Xavier Univ Medical School and finally to 2 years of clinical rotations in popular hospitals in the USA. This program would also train students to qualify USMLE exam and apply for Residency Program in the USA. Admissions are in progress. Classes for the first batch will start from September.

Ph.D. Program

Ms. Tanya Debnath, first research student, has just completed her Ph.D. in Genetics successfully from Osmania University.

Publication:

1. We have an in-house news line called Global News Line which brings out latest developments in human healthcare research, in addition to various activities in all branches of Global Hospitals and a signature column "Know Thyself" which reveals spiritual and philosophical angle to human life.

2."Nanoparticle-drug bio-conjugate as dual functional affinity legend for rapid point-of-care detection of end toxin in water and serum". Prasanta Kalita, Anshuman Dasgupta, Venkataraman Sritharan and Shalini Gupta. Anal. Chem. October 2015. DOI: 10.1021/acs.analchem.5b02957.

3. Swathi Raju M, Jahnavi V, Ratnakar K S, Sritharan V , Karthik Rajkumar, Sumathi Natarajan, Anil D Kumar, Sandeepa Burgula. Continuous Evaluation of Changes in Serum Proteome from Early to Late Stages of Sepsis caused by *Klebsiella pneumonia* Molecular Medicine Reports (in press) (Manuscript no.151161) (IF-1.5).

4. A structural, epidemiological and genetic overview of *Klebsiella pneumoniae* carbapenamases (KPCs). Swathi CH, Rosy Chikala, K S Ratnakar and V Sritharan*Ind J Med Res. (in press)

Conferences

International Conference on Infectious Diseases, Hyderabad. 3-5 March 2016.

Ms. Rosy CH et al. Oral Presentation. Influence of variation in the sequence(s) of factors essential for methicillin resistance (fem genes) on the expression of resistance to Lysostaphin and secretion of DNase.

Ms. Swathi CH et al. Poster Presentation. 'Investigating the distribution of integrons among clinical isolates of *Acinetobacter baumannii* and their association to carbapenem resistance'

Our initiatives to support Research Interests of our Associate Colleges

We sponsored 10 faculty and 10 students to register as delegates of Bio-Asia 2016. Faculty from St. Francis College, St. Ann's College and Bhavans Vivekananda College and 10 research scholars were sponsored.

We have opened up our research infrastructure to our associate colleges for collaborative research projects and a joint research proposal with microbiology department of Bhavans Vivekananda College has been submitted to DST which is at 2nd Phase of review.

Our Primary Research Partners

We have research collaborations in advanced nano-technologies with

IIT-Delhi

ARCI (DST), Hyderabad

Seminars/Symposia

Ms. Rosy CH.SRF, GMERF. Lecture Demo at St. Ann's College, National Seminar for College Teachers, UGC Refresher Program.

Dr. V. Sriitharan. Talk "Algorithm to career Search to Pharmacy students. Avanthi Group of Institutions.

Dr. K. S. Ratnakar "Genetics of Mind" in New Frontiers in Diagnosis and Management of Genetic Diseases, a National Conference, Inst. of Genetics .29th Jan 2016.

New MoU Signed

We already have signed MoUs with 5 colleges. In addition during 2015-16 we signed MoU with seven colleges more.

Avanthi College

College of Home Science

Andhra University

St. Francis College for Women

Xavier University School of Medicine.

Anurag Group of Institutions

Shadan College

This we consider as an important milestone and achievement as it speaks about the strength and values of our Foundation.

Patents (Authorship)

Platform Device and Method for Detection of Bacterial Lipopolysachharides in water and serum. Shalini Gupta, Prashanta Kalita, Anshuman Dasgupta and Venkataraman Sritharan. Patent Application No. 3214/DEL/2014

Recognitions and Awards

1. DSIR Recognition to GMERF has been renewed up to 2019
2. GMERF has received a National Innovation Award in March 2016.

GMERF and IIT Delhi jointly won the BIRAC-SRISTI (Society for Research and Initiatives for Sustainable Technologies and Innovations) award for Biotechnological/Medical/Healthcare Innovation. The title the Innovation was “Rapid End toxin Entrapment and Detection on surface engineered glass substrates”.

Infrastructure

1. We have created one IT lab for PG Students.
2. Our website is now active and you may visit www.gmerf.com for more information about our all our activities.