

Microbiology

STAFF

Faculty

Dr Prasanta Kr. Maiti	M.D., DGO, DCP	Professor & Head
Dr. Manash Sarkar	MD, DTM & H	Professor (joined as MSVP on 26.05.15)
Dr. Raja Ray	MD, Ph D, DTM&H.	Professor
Dr Kalidas Rit	M.D	Associate Professor
Dr. Hirak Jyoti Raj	MD	Assistant Professor
Dr. Nupur Pal	MD, DCH	Assistant Professor
Dr. Roumi Ghosh	MD, DNB	Assistant Professor (joined on 15.12.14)
Dr. Suranjan Pal	MD, DNB	Demonstrator (joined on 20.08.15)
Dr. Arani Debnandi	MD	Demonstrator (joined on 20.08.15)

Non-teaching staff

A) Medical Technologist: 1 Mallika Dubey 2 Bhabataran Manna 3 Ramkrishna Shaw 4 Subrata Biswas 5 Ajit Kr Pal 6 Kumar Kanti Somchowdhury 7 Jagadishwar Sashmal .

- It is worth mentioning that Mr. Debabrata Chakrabarty, one of our Ex-Medical Technologist is rendering voluntary service with full devotion for last 3 years after his superannuation.
- Mr. Biswanath Das is working as Data Entry Operator of IDSP

B) Group D staff: 1 Samir Guha 2 Gopal Sardar 3. Pradyut Nava Barua 4. Rama Dutta 5.Rajendra Mullick 6. Kapildeo Mullick 7. Sarajuk Das 8. Moti Mallick

MD students

3rd Year (2013-16)	2nd Year (2014-17)	1st Year (2015-18)
Dr. Asmita De Dr. Lalbiaktluangi Dr. Raja Ray Dr. Prabir Kr Ghosh # Dr. Rita Tudu (2012-15 Extended)	Dr. Arjun Dutta Dr. Tamas Das Dr. Munmun Sarkar Dr. Anjan Kr. Das	Dr. Indraneel Saha Dr. Abirlal Sanyal Dr. Anjum Namhata Dr. Tanusri Halder

REGULAR ACADEMIC ACTIVITIES

- Teaching and organizing examinations of MBBS, MD, DMLT, BPT, DCLT, B Sc Nursing.
- Organising Journal club, Seminars and guiding thesis for MD & Ph D candidates.
- Organising summer projects for M. Sc. (Microbiology/ Biotechnology) students of different colleges of W.B. and other states, approaching to our institute.

FACULTY NEWS

Prof. P.K. Maiti

- Examiner & paper setter for MBBS, MD (Microbiology) examinations of WBUHS.
- Adjudicator for MD theses from WBUHS.
- Under his supervision one candidate completed Ph.D. thesis this year and two more are continuing research.
- Reviewer of articles for Indian Journal of Medical Microbiology, Journal of Indian Medical Association, Indian Journal of Medical Research & Medical Glory (a publication of W.B. Medical Council).
- Accepted offer of Honorary Fellow of Indian Mycology Society (FIMS).
- Member of B.O.S., WBUHS , Pharmacovigilance Committee & Purchase Committee of IPGMER.

Prof. Raja Ray

- Paper setter for MD(Microbiology), MBBS, DMLT, BSc. Nursing & examiner for MBBS, DMLT. BSc. Nursing of WBUHS
- Adjudicator of MD Thesis from WBUHS
- Under his supervision Baldev Das completed PhD thesis this year(submitted on 19/8/2015) under Vidyasagar University, Midnapore.
- MCI Inspector for PG at Indore & for UG at Kanyakumari.
- Member of RNTCP, Nodal Microbiologist, IDSP, Member Secretary, Hospital Infection Control Committee & Member Drug and Therapeutics Committee; Member of Hostel Supervisory Committee of IPGMER
- Speaker at the "Swine Flu Orientation Programme" for Doctors, held at GLT,IPGMER in March,2015 Speaker on "BioMedical Waste Disposal" as part of HIC orientation and 'Problems in Lab testing of Dengue, JE' as part of awareness for clinical faculty and PGTs,Speaker on 'Ebola" on WHO Day,7th April,2015.
- Subject expert for selection of Microbiology faculty at Joka ESIC
- Reviewer of articles for Indian Journal of Public Health.

Prof. Manash Sarkar

- Paper setter for MD(Microbiology), MBBS & DMLT examination, W.B.; Moderator for MBBS, DMLT Examination and adjudicator for MD thesis of different universities.
- Examiner of MBBS, MD of WBUHS & some other universities.
- He is member secretary, B.O.S., WBUHS.
- Now he is acting as MSVP of IPGMER from 26.05.15..

Dr Kalidas Rit

- In-Charge, CSSD, SSKM Hospital.
- Examiner/ Scrutinizer of MBBS,BDS, DMLT, B.Sc. Nursing & Paper setter for BPT & DMLT

Dr Hirak Jyoti Raj

- Member of Hospital Infection Control Committee of IPGMER & ART Core Committee.
- He served as scrutinizer in MBBS and MD examination (WBUHS) and examiner of DMLT examination(WBSMF)
- He received "Internal auditors' training on ISO:15189:2012And NABL 112 requirements; Quality Control" .

Dr. Nupur Pal

- In-Charge, Departmental Library & Museum.
- Received Teachers' Training

Dr. Roumi Ghosh

- Member of Hospital Infection Control Committee of IPGMER.
- Received Diploma in Hospital Management and WHO-ICMR-PGIMER National training course on "Diagnostic Medical Mycology- Conventional and Molecular Techniques" held at PGIMER, Chandigarh from 18th-23rd May, 2015.
- She acted as reviewer of article for Journal of Revista do Instituto de Medicina Tropical de Sao Paulo.
- Speaker at the "Swine Flu Orientation Programme" for Paramedical staffs held at GLT, IPGMER in March, 2015

CONFERENCE & WORKSHOP ATTENDED

- Four PGTs Dr. Raja Ray, Dr. Prabir Ghosh, Dr. Arjun Dutta, Dr.Tamas Das & research scholars Jayeeta Haldar attended 39th. National Conference of IAMM (Microcon2015) at Pondichery.
- Prof. Raja Ray & Prf. PK Maiti served as Chairperson at the 10th IAMM State Conference(West Bengal Chapter) held in September,2015. Dr. HJ Raj, Nupur Pal, Roumi Ghosh, Suranjan Pal, Arani Debnandi and all PGTs also attended the conference. Dr. Roumi Ghosh, Asmita De, Prabir Ghosh, Lalbiaktluangi, Anjum Namhata, Indranil Saha presented papers in that conference.
- Dr. Suranjan pal delivered an invited oration on 'good sample: a practical approach to proper pre-analytical care for critical clinical samples' in the department of microbiology at ESI-PGIMSIR & ESIC Medical College, Joka on 10th December,2015.

AWARDS & ACHIEVEMENT

- Dr. Prabir Ghosh & Dr. Raja Ray received best prizes for paper presentation (Session III & IV respectively) in 59th Foundation Day Ceremony of IPGMER, held on 16.01.2015. Thus Microbiology has become the first department to achieve this award for consecutive four years.
- By an initiative the look of Microbiology Museum has been totally changed by active participation of students. Now it contains good number of charts & models done by students.
- Microbiologists under Hospital Infection Control Committee solved the problem of high incidence of recurrent port-site infections following laparoscopy, which were caused by atypical mycobacteria of environmental sources.
- Fungi from two unusual cases of disseminated histoplasmosis and one case of hyalohyphomycosis were isolated, identified and deposited to referral centre.
- Received a fund of Rs. 15 Lac from WBDST for improvement of Science & Technology Infrastructure. Automated blood culture system has been installed under this project. Also a grant of Rs. 5 Cr. has been allotted from ICMR for establishment of VRDL in Microbiology department.
- Jayeeta Halder received certificate for best presented topic of the session in National Conference of Microbiology at Pondicherry (Microcon 2015).

PUBLICATIONS

Journal articles

- 1 Maiti PK, Chakraborty B, Ghosh S, De A. Does the benefit of salvage amputation always outweigh disability in drug-failure Mycetoma?: A tale of two cases; *Indian Journal of Dermatology*: vol 60(1), p74-6; 2015
- 2 Chatterjee S, Biswas N, Datta A, Dey R, Maiti PK. Atomic force microscopy in biofilm study. *Microscopy*, 2014, (Advance Access Published May 2, 2014), 1-10. Doi:10.1093/jmicro/dfu013.
- 3 Suparna Dutta Sinha, Susmita Chatterjee, Prasanta Maiti, Sujata Tarafdar, Satya Moulik. "Bacterial biofilms on implant materials: Effect of substrate" Accepted for publication in " *Journal of Advanced Healthcare Materials*". The manuscript number "adhm.201400782".
- 4 Maiti PK, Naha A, Ghosh P, Ghosh R, Chatterjee G. First reported human case of bilateral subcutaneous phaeohyphomycosis by a new member of Dothideomycetes (Pleosporales) spp. *Int.J.Curr.Microbiol.App.Sci* (2015) 4(5): 97-103
- 5 Asis Manna, Jhuma Manna, Dwijendra Nath Gangopadhyay, Raja Ray, Prasanta Kumar Maiti. A study of growth and physiological characteristics of *Malassezia furfur* on indigenously developed Coconut milk agar medium. *Int.J.Curr.Microbiol.App.Sci* (2015) 4(5): 1005-1014
- 6 Subhadip Dhara, Bipasa Chakraborty, Debasish Ghosh, Soumik Basu, Kalidas Rit, Raja Ray. Comparative study on outcomes of type 1 tympanoplasty in active and inactive variety of chronic otitis media. *European Journal of Biomedical and Pharmaceutical Sciences*. 2015; 2(1):147-53
- 7 Chatterjee Kaushik, Dash Siddhartha Sankar, Das Baldev, Ray Sabyasachi, Ray Raja. "Intestinal Parasitic infections and its prevalence among school going children and pregnant women in Paschim Medinipur district, West Bengal, India". *International Journal of Science and Technology*. (2015); 1(3):20-25.
- 8 Das Baldev, Chatterjee Kaushik, Ali Monzur Kazi, Ghosh Debidas, Ray Raja. "Laboratory Profile with Infrastructural facilities available in Pathological centres of Hooghly and Burdwan Districts of West Bengal: A Comparative Analysis between Government and Private run Laboratories". *International Journal of Science and Technology*. (2015); 3(10):41-57.
- 9 Halder J, Mukherjee P, Mukhopadhyay S, Maiti PK. Isolation of bacteria from diabetic foot ulcers with special reference to anaerobe isolation by simple modified candle jar technique. *Ind J Med Res*; (Accepted for publication; 2015)
- 10 Raj H.J, Majumdar B, Jain A, Maiti P.K., Chatterjee G. "A clinico-mycological study on suspected cases of Chromoblastomycosis: challenges in diagnosis and management". *Journal of Clinical and diagnostic Research*. 2015 Dec, Vol-9(12): WC01-WC04
- 11 Nupur Pal, Asmita De, Mousumi Mondal, P.K.Maiti. An unusual case of pyopneumothorax due to *Candida albicans*. *Int.J.Curr.Microbiol.App.Sci* (2015) 4(7): 716-719
- 12 Lalbiaktluangi, Bipasa Chakraborty, Jayeeta Halder, Prasanta Kumar Maiti, Raja Ray. Isolation of anaerobes in deep seated pressure ulcers using a novel innovative technique of anaerobe isolation. *Journal of Evolution of Medical and Dental Sciences/ eISSN- 2278-4802, pISSN- 2278-4748/ Vol. 4/ Issue 98/ Dec. 07, 2015 Page 16329 .Jemds.com*

Papers presented in 59th Foundation Day Ceremony of IPGMER & 9th. Reunion 2015:

1. Study of microbial flora in bed sores with special emphasis on anaerobes at a tertiary level hospital. Lalbiaktluangi, Ray R, Maiti PK, Haldar J
2. A novel biofilm intervention strategy by a coat of a preformed biofilm structure. Maiti PK, Asmita De, Susmita Chatterjee, Arjun Dutta.
3. Concordance of LAMP and conventional methods to diagnose Tuberculosis. P.K Ghosh, R.Ray, K.Rit, B.Chakrabarty, Maiti PK
4. Nano-adjuvant, new ray of hope against anti-microbial resistance. Maiti PK, Ray R, Abhishek Adhya.

Paper presented in 5th. Annual Conference of Clinical Infectious Disease Society (CIDCON-15) held at New Delhi on 21-23 Aug. 2015:

1. Roumi Ghosh. A case of post-laparoscopic port site infection by Mycobacterium abscessus in a tertiary care centre.

Papers presented in XXXVIII National Conference of IAMM (MICROCON 2015) at Pondicherry, held on 26 th. Nov. 2015:

1. Biofilm colonization of *Bacteroidis fragilis* in treatment refractory anal fistula: Atomic Force Microscopy study report. Jayeeta Haldar, Asmita De, Prof. Sangam Banerjee, Prof. P. K. Maiti. (Received certificate for "Best Topic")
2. A study of antibacterial action of silver nano particles on the Mueller Hilton Agar plates. Raja Ray, Prof. PK Maiti, Abhishek Addya.
3. Concordance of LAMP and conventional methods to diagnose tuberculosis. Prabir Ghosh, Prof. Raja Ray, Bipasa Chakraborty, Prof. PK Maiti.

Papers presented in 10th State Chapter Conference of IAMM held at CMC on 20.9.15.

1. Hospital acquired non-tubercular mycobacterial infections: a new challenge for infection control. Dr. Roumi Ghosh, Dr. Soumen Das, Dr. Harish Kela, Dr. Asmita De, Prof. Prasanta Kr. Maiti.
2. Fistula in ano is a biofilm disease by anaerobic bacteria: A new outlook. Asmita De, Jayeeta Haldar, Prof. Prasanta Kr. Maiti,
3. High precision average colony size scoring system and its applications. Dr.Anjum Namhata, Dr. Hirak Jyoti Raj, Dr. Munmun Sarkar, Prof. Prasanta Kr. Maiti.
4. A case of VP shunt infection by *Pepto-streptococcus spp.detected* by our novel innovative technique. Lalbiaktluangi, Jayeeta Haldar, Raja Ray, Prasanta Kr. Maiti
5. Ophthalmic preparation of Itraconazole : Scopes and limitations. Dr. Prabir Kumar Ghosh, Soma Bandyopadhyay, Prof. Prasanta Kr. Maiti,
6. Study of microbial flora in pressure sores with special emphasis on anaerobes at a tertiary care hospital. Dr.Indraneel Saha, Dr.Lalbiaktluangi, Jayeeta Halder,Prof.Prasanta Kumar Maiti, Prof.Raja Ray

MD theses submitted in 2015

1. Demonstration of Lepra Bacilli in Clinical materials of Human Leprosy cases with special reference to cultural aspect. Dr.Rita Tudu. Guide;Prof. Raja Ray, Prof. PK Maiti.(submitted Sept,2015).
2. Association of biofilm colonization in chronic treatment refractory infections presenting with discharging. Dr. Asmita De. Guide: Dr. PK Maiti, Dr. H. J. Raj
3. Isolation, identification and drug sensitivity study of aerobic and anaerobic organism responsible for bed sore and monitoring change of microbial population following standard treatment. Dr Lalbiaktluangi . Guide: Dr. Raja Ray
4. A Study on the Comparative Sensitivity of Smear Microscopy, Solid and Liquid Culture Methods and A Newer Molecular Technique in the Isolation of Mycobacterium tuberculosis Complex in Paucibacillary Pulmonary and Extra Pulmonary Clinical Samples.Dr. Prabir Kumar Ghosh; Guide: Dr. Raja Ray & Dr. Kalidas Rit.

5. Study of the synergistic action of nano-silver with ciprofloxacin, amikacin & piperacillin on various bacterial strains. Dr Raja Ray. Guide: Dr P K Maiti.
6. A Comparative Study of Moxifloxacin alone versus Doxycycline and Metronidazole For The Treatment of Uncomplicated Pelvic Inflammatory Disease. Dr. Priyadarshini M.(G&O); Guide: Dr. Gourishankar Kamilya. Dr. Raja Ray

Ongoing research work for MD theses

1. Quality assessment of different solid culture media in terms of average bacterial colony size of appropriate bacterial growth and some steps for quality improvement. : Dr. Munmun Sarkar. Guide: Dr. P.K Maiti.
2. In vitro demonstration of biofilm inhibition characteristics of one preformed biofilm to colonization of other biofilm producers. Dr. Arjun Dutta. Guide: Dr. P.K Maiti
3. In-vitro study on potential efficacy of acriflavine and other molecules in the prevention of transfer of drug resistance in clinical nosocomial bacterial isolates. Dr. Tamas Das. Guide: Dr. Raja Ray.
4. A microbiological study of recurrent urinary tract infections with special references to biofilm colonization. Dr. Anjan Kumar Das. Guide: Dr. Manash Sarkar.
5. Difference in Growth and Drug susceptibility between in-vitro and in-vivo simulating growing conditions with special reference to common non-fastidious respiratory pathogens Dr. Anjum Namhata ; Guide: Prof. PK Maiti, Dr. H. J. Raj.
6. A microbiological study of puerperal & post-abortal sepsis with reference to anaerobic and aerobic flora. Dr. Tanusri Haldar; Guide: Dr. Kalidas Rit, Dr. Nupur Pal, Prof. Sudip Saha (G&O).
7. A study of geriatric urinary tract infections, with special reference to electrolyte imbalance in a tertiary care hospital .Dr. Abirlal Sanyal; Guide: Prof. Manas Sarkar, Prof. Raja Ray.
8. Study of microbiological profile of device associated infection in critically ill patients with respect to resistogram study and biofilm forming ability at a tertiary care hospital Dr. Indraneel Saha; Guide: Prof. Raja Ray, Dr. Roumi Ghosh , Dr. Rajat Choudhuri.

PhD thesis work

- Form conversion of Malassezia: a clinico-mycological study. By Dr. Asis Manna. Guide: Dr. PK Maiti & Dr. DN Gangopadhyay.
- A New anaerobiosis technique using a candle-jar enriched with chemicals for combustion of residual oxygen: validation and its application to determine the incidence of anaerobic infections from different clinical materials. by Jayeeta Haldar, Guide: Prof. PK Maiti & Prof. Raja Ray.
- A Bio-molecular approach towards anti-microbial resistance of bacteria within medical device associated biofilms". By Susmita Chatterjee. Guide: Dr. PK Maiti, Dr. S Chowdhury, Dr. S Law. (Ph.D. awarded in 2015)

Other ongoing project work

- DST (State) Project entitled " Simple innovative techniques for isolation of anaerobic bacteria on the surface of the agar plates using modified candle jar ". Principal Investigator: Prof. P.K. Maiti.

