Microbiology

Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Prasanta Kr. Maiti</td>
<td>MD, DGO, DCP</td>
<td>Professor &amp; Head</td>
</tr>
<tr>
<td>Dr. Raja Ray</td>
<td>MD, Ph D, DTM&amp;H.</td>
<td>Professor</td>
</tr>
<tr>
<td>Dr. Kumkum Bhattacharya</td>
<td>MD</td>
<td>Professor (joined on 09/09/2016)</td>
</tr>
<tr>
<td>Dr. Kalidas Rit</td>
<td>MD</td>
<td>Associate Professor</td>
</tr>
<tr>
<td>Dr. Hirak Jyoti Raj</td>
<td>MD</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Nupur Pal</td>
<td>MD, DCH</td>
<td>Assistant Professor</td>
</tr>
<tr>
<td>Dr. Suranjan Pal</td>
<td>MD, DNB</td>
<td>Demonstrator</td>
</tr>
<tr>
<td>Dr. Arani Debnandi</td>
<td>MD</td>
<td>Demonstrator</td>
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Officers transferred out

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<tr>
<th>Name</th>
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<th>Position</th>
<th>Institution</th>
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<tr>
<td>Dr. Manash Sarkar</td>
<td>MD, DTM&amp;H</td>
<td>Professor &amp; MSVP</td>
<td>To Murshidabad Med. Col.</td>
</tr>
<tr>
<td>Dr. Roumi Ghosh</td>
<td>MD, DNB</td>
<td>Assistant Professor</td>
<td>To ESI Med. Col. Joka</td>
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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  8. Mr. Debabrata Chakrabarty [Transferred to Dept. of Pathology from Oct, 2016].

Mr. Biswanath Das is working as Data Entry Operator of IDSP


C) Viral Research & Diagnostic Laboratory (VRDL) staff: Dr. Raja Ray (Research Scientist, Med), Dr. Susmita Chatterjee (Res. Scientist, Non-med.), Jayeeta Halder (Res. Asstt., Non-med.), Mr. Santasri Dan (Lab Technician), Mr. Tirtha Sahoo (Lab Technician).

MD students

<table>
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<th>Year</th>
<th>Students</th>
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</thead>
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<tr>
<td>3rd Year (2014-17)</td>
<td>Dr. Arjun Dutta  Dr. Tamas Das  Dr. Munmun Sarkar  Dr. Anjan Kr. Das</td>
</tr>
<tr>
<td>2nd Year (2015-18)</td>
<td>Dr. Indraneeel Saha  Dr. Abirrak Sanyal  Dr. Anjum Namhata  Dr. Tanusri Haldar</td>
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<tr>
<td>1st Year (2016-19)</td>
<td>Dr. Arpit Saha  Dr. Sangita Pal  Dr. Nishar Akhtar</td>
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REGULAR ACADEMIC ACTIVITIES

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

- Electron Microscope has started functioning.
- DST-FIST sponsored automated blood culture system (Bac-T-Alert & VITEK) installed.
- VRDL established.
- AMRSP (ICMR) project of Rs. 50 Lakhs in 5 yrs, is going to be implemented very soon.
- Microbiology labs situated at Emergency Building 3rd. floor have been shifted to UCM Building.
- Participants from the department received 1st & 2nd prize for presentation in award session at WB-Microcon-2016 (Presenters: Dr. Hirak Jyoti Raj & Archi Ghosh)
- Presentation of Jayeeta Halder selected as “Paper Of Excellence” at 1st Regional Science & Technology Congress-2016, Presidency Division, Department of Science & Technology, Govt. Of West Bengal.

FACULTY NEWS

Prof. P.K. Maiti
- Examiner & paper setter for MBBS, MD (Microbiology) examinations of WBUHS.
- Adjudicator for MD theses from WBUHS.
- MCI Inspector for UG at Banda, U.P., Sanathnagar, Telangana & Vishakhapatnam, A.P.; PG inspection at Jodhpur
- Under his supervision one candidate completed Ph.D. thesis this year and two more are continuing research, three other candidates are preparing for Ph D Registration
- Reviewer of articles for Indian Journal of Medical Microbiology, Journal of Indian Medical Association, Indian Journal of Medical Research & Medical Glory.
- Conferred Honorary Fellow of Indian Mycology Society (FIMS).
- Member of B.O.S., WBUHS, Pharmaco-vigilance Committee & Purchase Committee & Medical Research Unit of IPGMER; also Acting in-charge of “Electron Microscopy”; Member of interview team for engagement of M.T.(Lab.) held on 7-9 Dec.’16
- Chairperson in a session at “National Symposium on Microbial Diversity and its Impact” held on Feb. 18-19th, 2016 at Calcutta University.
- Received UNESCO Chair Bioethics (HAIIFA) Certificate and credited 13 hours CME by WB Medical Council by participating “3T Plus ETTC Training course in Bioethics for Medical And Dental Teachers”, held on 21-23 Jan. 2016 at WBUHS organized by UNESCO & WBUHS
- Convenor of 1st get-together for Microbiologists associated with UCM/IPGMER
- Organizing President of 11th State Chapter Conference of IAMM, organized by IPGMER & acted as resource person in CME & Workshop. He also presented the Theme lecture on “Nurture Good Bacteria, Corner Bad Bacteria”. He was co-author of four papers of which two received awards.
- Acted as Invited Faculty & Resource Person of Microcon 2016 held in PGIMER, Chandigarh where he chaired a session on “Molecular/Rapid techniques and Immunology”. He presented a paper and was co-author of nine papers.
- Presented Guest Lecture on “Nano-adjuvant : new ray of hope against anti-microbial resistance” in National Seminar on “Application of nano-materials and allied fields” Organized by Institute of Science Education and Culture (ISEC) & Birla Industrial and Technological Museum (BITM) on 3rd Sept.’16
- Co-author of three papers presented in 1st. Regional Science & Technology Congress 2016, Presidency Division, West Bengal. of which one has been selected as “Paper Of Excellence”.
- Expert in Microbiology for Pre-PhD seminar (Microbiology) of Dr. Swagata Ganguly at WBUHS.

Prof. Raja Ray
- Paper setter for MD(Microbiology), MBBS, DMLT, BSc. Nursing & Internal examiner, MD(Microbiology,IPGMER,2016), Internal Examiner MBBS (IPGMER,2016), External examiner
for MBBS (RIMS, Imphal, Feb, 2016) and Silchar Medical College, Feb, 2016, DMLT (Saroj Gupta Cancer Centre and Welfare Home). BSc. Nursing of WBUHS (External and Internal Examiner, 2016).

- Adjudicator of MD Thesis from WBUHS, Jan 2016.
- Expert in Microbiology for Pre-PhD seminar (Microbiology) at WBUHS (Sept, 2016).
- Selected Chairperson for Project Evaluation by Joint Director Public Health and Communicable Disease on Mosquito surveillance to forecast and control outbreaks of mosquito borne viral and parasitic diseases in and around Kolkata (Nov, 2016).
- Served as Member, Medical Board constituted by MSVP, IPGMER on 3/10/2016 for management of a neurology patient admitted in Dept of Physical Medicine. Member of interview team for engagement of M.T.(Lab.) held on 7-9 Dec.’16
- Received certificate of co-authorship in paper presented on 14th Nov, 2016 at 1st Regional Science and Technology Congress, 2016 held at the National Institute of Teacher’s Training and research, Kolkata
- Received training at National Institute of Virology, Pune for setting up VRDL lab at IPGMER (Sept, 2016)
- MCI Inspector for PG at Apex Medical College, Indore (PG), Kanyakumari Govt. Medical College, Kanyakumari (UG), Muzaffarnagar Medical College, Western UP (PG), Nizams Institute of Medical Sciences, Hyderabad (PG), Dr Ram Manohar Lohia Institute of Medical Sciences, UP (PG) during 2016
- Member of RNTCP, Nodal Microbiologist, IDSP, Principal Investigator, VRDL, Member Secretary, Hospital Infection Control Committee & Member Drug and Therapeutics Committee; Member of Hostel Supervisory Committee of IPGMER
- Judge, Scientific session, 10th IAMM State Conference, Dec 2015 and, Convener, Scientific Committee 11th West Bengal IAMM State Conference.

**Dr Kalidas Rit**
- In-Charge, CSSD, Serology Lab, SSKM Hospital.
- Examiner/ Scrutinizer of MBBS, BDS, DMLT, B.Sc. Nursing & Paper setter for BPT & DMLT.
- Convener Souvenir Committee 11th IAMM State conference, WB-MICROCON -2016.

**Dr Hirak Jyoti Raj**
- Member of Hospital Infection Control Committee of IPGMER, VRDL & ART Core Committee.
- Examiner in 2ND Professional MBBS (Regular and Supplementary, WBUHS) and DMLT Examination (WBSMF)
- He served as scrutinizer in MD examination (WBUHS)
- Received training at National Institute of Virology, Pune for setting up VRDL lab at IPGMER (Sept, 2016) as Co-PI of the project
- Speaker in different seminars and orientation programs in IPGMER.
- Joint Secretary, 11th IAMM State conference, WB-MICROCON -2016.
- Co-Guide in MD thesis works and Co-Investigator in DST (WB-state) project.
- Presented oral paper in Award session of 11th IAMM State conference, WB-MICROCON -2016 and received first prize.

**Dr. Nupur Pal**
- Coordinator of short projects in Microbiology
- She served as scrutinizer in MBBS examination (WBUHS)
- Co-Guide in MD thesis works
- Principal investigator for operational research project, RNTCP, titled “To study the burden of non-tuberculous mycobacterial infection among immunocompetent pulmonary tuberculosis and suspected extrapulmonary cases.”
- Convener, Reception Committee, 11th IAMM State conference, WB-MICROCON -2016.
Dr. Suranjan Pal
• Treasurer, 11th IAMM State conference, WB-MICROCON -2016.

Dr. Arani Debnandi
• Convenor, Refreshment Committee, 11th IAMM State conference, WB-MICROCON -2016.

CONFERENCE & WORKSHOP ATTENDED
• Five PGTs Dr. Arjun Dutta, Dr. Tamas Das, Dr. Indranil Saha, Dr. Abirlal Sanyal & Dr. Nishar Akhtar attended 40th National Conference & Workshops of IAMM (Microcon2016) at Chandigarh.

AWARDS & ACHIEVEMENTS
• Dr. Jayeeta Haldar received certificate for best presented topic of the session in National Conference of Microbiology at Pondicherry (Microcon 2015).
• Dr Hirak Jyoti Raj received the First prize in Oral Paper presentation ( Award session), in 11th IAMM State conference, WB-MICROCON-2016.
• Dr. Archi Ghosh received the Second prize in Oral Paper presentation ( Award session), in 11th IAMM State conference, WB-MICROCON-2016.
• Presentation of Jayeeta Halder has been selected as "Paper Of Excellence" at 1st Regional Science & Technology Congress-2016, Presidency Division, Department of Science & Technology, Govt. Of West Bengal.
• Received three cash prizes @ Rs. 5000 for selected innovative works presented at 40th National Conference of Microbiology (Microcon-2016, at Chandigarh).

PUBLICATIONS

Journal articles
1 Haldar 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)


**Papers presented in National Symposium on Microbial Diversity and its Impact organized by Indian Mycological Society at CU, on Feb 18-19th, 2016:**

2. Bipasa Chakraborty, Hirak Jyoti Raj, Prof. Prasanta Kr. Maiti. A Case Of Low Invasive Chronic Subcutaneous Mucormycosis
4. Jayeeta Haldar, Prof. Prasanta Kr. Maiti., Prof. Raja Roy. New Method Of Anaerobiosis Applicable For Soil Bacteriology

**Papers presented in 40th National Conference of IAMM (MICROCON 2016) at Chandigarh, held on 25-27th Nov, 2016:**

1. Isolation and Identification of Anaerobes from Periodontitis using Two Step Combustion Modified Candle Jar System. Rehana Parveen, Jayeeta Haldar, Sudipta Chatterjee, Prof. Raja Ray, Prof. P. K. Maiti.
5. How to obtain longlife readymade media for bacterial culture. Prabir Ghosh, Munmum Sarkar, Prof. Raja Ray, Prof. Prasanta Kumar Maiti.
11th State Chapter Conference of IAMM held at IPGMER on 23.10.16.

Papers in Award Sessions:
1. Bio-control of biofilm colonization on device surfaces. Hirak Jyoti Raj, Arjun Dutta, Sushmita Chatterjee, Prasanta Kr. Maiti. (Received first prize in Award session)
2. Nano-antimicrobials : the perfect antibiotic potentiators for combating drug resistance bacteria. Archi Ghosh, Raja Ray, Prasanta Kumar Maiti (Received second prize in Award session)
3. Slackia exigua, an unusual anaerobic pathogen for periodontitis, isolated by modified candle jar technique. Rehana Parveen, Jayeeta Haldar, Sudipta Chatterjee, Prof. P. K. Maiti.

Papers in Free Paper Sessions:
5. Comparative study of automated BACT / ALERT -3D system versus conventional system for bacteriological identification of sepsis in a tertiary care hosp. Nishar Akhtar; Prof. Raja Ray

1. Innovation of simpler technique for anaerobic culture. Jayeeta Haldar, Poulami Mukharjee, Rehana Parveen, Prof. Raja Ray, Prof. PK Maiti. [selected as "Paper Of Excellence" ].
2. A novel biofilm intervention strategy by a coat of preformed biofilm structure. Rehana Parveen, Arjun Dutta, Susmita Chatterjee, Prof. P.K.Maiti

MD theses submitted in 2016
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.

Ongoing research work for MD theses
1. 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. HJ Raj.
2. 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)
3. 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
4. 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. Rajat Choudhuri.
6. Evaluation of bacterial contents in some commonly used Probiotic medicines and foods. 
Dr. Sangeeta Pal, Guide: PK Maiti, Kumkum Bhattacharya, Hirak Jyoti Raj

7. Comparative study of Sensitivity of BacT/AlerT-3D automated detection system supplemented with Vitex-2 compact identification and AST determination system versus conventional system for bacteriological identification and antimicrobial susceptibility test (AST) of cases of sepsis at a tertiary-care hospital. Dr. Nishar Akhtar. Guides: Prf. Dr. Raja Ray, Dr. Kalidas Rit.

PhD thesis work

- Form conversion of Malassezia: a clinico-mycological study. By Dr. Asis Manna. Guide: Dr. PK Maiti & Dr. DN Gangopadhyay.
- 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. [Completed ]
- Nano-Mission Project, DHR, Govt. of India: “In-vitro evaluation of nano-silver particles as antimicrobial agents by direct action or as synergistic agent with some conventional antibiotics” Principal Investigator: Prof. P.K. Maiti, Co-PI: Prof. Mitali Chatterjee.
- DST (State) Project entitled “Evaluation of different in-house developed fastidious anaerobic broth as culture media and their use in cost-effective manner” Principal Investigator: Prof. P.K. Maiti.

Short projects conducted

- Culture of Anaerobic bacteria using newer technique (Jan-Feb ’16) by Mou Chatterjee, B. Tech student of Heritage Institute of Technology. Guide: Dr. Arani Debnandi.
- Use of Antimicrobials in Bacterial Infections (Jan-Feb ’16) by Niniva Datta, B. Tech student of Heritage Institute of Technology. Guide: Dr. Roumi Ghosh.
- Study of different anti-microbial susceptibility testing methods (Jan-Feb ’16) by Taniya Ghosh, B. Tech student of Heritage Institute of Technology. Guide: Dr. Roumi Ghosh.
- Inoculam standardization and colony size scoring for microbiology research (Feb-April ’16) by Rana Das, B.Sc (Hons.) 8th Semester student of Amity Institute of Biotechnology, Amity University, Uttar Pradesh. Guide: Dr. Nupur Pal.
- Isolation of anaerobes from clinical materials by a new technique and identification by conventional methods as well as molecular technique by Debasmita Ray of School of Tropical Medicine, Kolkata. Guide: Dr. Nupur Pal.
### Laboratory Tests in Microbiology Laboratory from 01/12/2015 - 30/11/2016 (Total = 1,03,436)

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N.B.: Tests done in Central Lab during evening & night shift are not included in this census.