

Curriculum Vitae

Dr Gaurav GOEL

Present Designation: Senior Consultant, Microbiology, Tata Medical Center, Kolkata

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EDUCATIONAL QUALIFICATIONS

Title of qualification	Specialty (if relevant)	Awarding body	Country
MBBS	Medical Subjects	Chaudhury Charan Singh University, Meerut.	India
MD	Microbiology	Veer Narmad South Gujarat University Surat.	India
Fellowship	Clinical Microbiology	Tata Medical Center, Kolkata	India
DNB	Microbiology	Diplomate Of National Board (DNB)	India
FRCPATH (Part-1)	Medical Microbiology	Royal College of Pathologists	UK
MNAMS	Microbiology	National Academy of Medical Sciences	India

DESIGNATIONS HELD

Current/most recent appointment

Start date (and finish date)	Job title and specialty	Name of institution/hospital
01/10/2021 to till now	Senior Consultant, Microbiology & Infection Control Officer	Tata Medical Center, Kolkata. India.
01/10/2018 to 30/09/2021	Associate Consultant, Microbiology & Infection Control Officer	Tata Medical Center, Kolkata. India.
01/08/2014 to 30/09/2018	Junior Consultant, Microbiology & Infection Control Officer	Tata Medical Center, Kolkata. India.

TRAINING EXPERIENCES/ PREVIOUS APPOINTMENTS

Start- finish date	Job title and specialty	Full time/ part time	Name, address of institution/hospital
02/05/2014- 31/07/2014	Consultant, Microbiology	Full time	Dharamshila Cancer and Research Hospital, New Delhi. India
02/05/2011- 01/05/2014	Fellow in Clinical Microbiology	Full time	Tata Medical Center, Kolkata. India.
17/12/2010 - 29/4/2011	Asst. Prof., Microbiology	Full time	Subharti Medical College, Meerut. U.P.
31/5/2007- 13/12/2010	Resident- Microbiology	Post graduate MD training (including R4ship post MD)	Governement Medical College, Surat. India.
01/02/2006- 31/05/2006	Demonstrator- Pathology	Full time	Subharti Medical College, Meerut. U.P.
01/04/2004- 31/03/2005	Internship	-	LLRM Medical College Meerut and District Hospital Bulandsahar, U.P.
01/09/1999- 30/03/2004	MBBS	-	LLRM Medical College Meerut.

NATURE OF WORK IN PRESENT EMLOYMENT

1. Diagnostic Microbiology (Bacteriology, Serology, Mycology, Parasitology, Virology, Mycobacteriology).
2. Quality assurance and accreditation
3. Infection control services- Infection control officer, Tata Medical Center
4. Antibiotic stewardship program
5. Positive blood culture clinical rounds

6. ICU Clinical Microbiology rounds
7. Clinical consultations related to Infection management
8. Environmental Microbiology- Surveillance and actions
9. Management of sharps exposures
10. Management of incident(s) related to drug reaction/ infusates- Sterility testing
11. Research- Co-PI in department ongoing research projects
12. In-charge of fellowship Training
13. In-charge of DMLT Training
14. Visiting Faculty- Joint M.Sc.-Ph.D. program- Molecular Medical Microbiology- IIT Kharagpur & Tata Medical Center, Kolkata

Research

Title of research project	Research centre	Dates from and to	Supervisor (if relevant) with contact details	Outcome of research
Isolation of Leptospire	Governme nt Medical College, Surat. India.	July-2007 to October-2009	Dr. Summaiya Mulla	Letospira culture from patients when on treatment often not succeeds and maintenance requires continuous monitoring and repeated subcultures.
Direct susceptibility from positive blood culture broths	Tata Medical Center, Kolkata	May- 2011 to December-2012	Dr. Sanjay Bhattacharya	Successful. Published as original article: Indian Journal of Medical Microbiology, (2015) 33(Supplement 1): S513-58
Regional Centre for Antimicrobial Resistance Surveillance Network.	Tata Medical Center, Kolkata (Multi-Centric)	14/9/2013- Submitted Start: 01 st March 2017; Duration: 5 years	Multi-centric (ICMR)	Approved in July-2016. Date of start: 01 st March 2017; Duration: 5 years
Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India	Tata Medical Center, Kolkata (Multi-Centric)	Feb- 2017	Multi-centric (CDC-ICMR)	Completed

Publications

1. Mukherjee S, Mukherjee S, Mahto R, Basu D, Javed R, Goel G, Bhattacharya S, Basu S, Chandy M. **Importance and results of sterility testing of various products in a microbiology laboratory of eastern India.** Indian J Med Microbiol. 2022 Jan-Mar;40(1):138-140. doi: 10.1016/j.ijmmb.2021.10.008. Epub 2021 Nov 3. PMID: 34740414.
2. Bhattacharyya, A., Das, A., Dalvi-Mitra, S., Goel, G., Bhattacharya, S., Chowdhury, S. and Saha, V. (2022), **Surveillance and caregiver vaccination prevent varicella outbreaks in a residential care facility for children with cancer.** Pediatr Blood Cancer e29631. <https://doi.org/10.1002/pbc.29631>
3. Mishra DK, Goel G, Arora N, Krishnan S, Bhattacharya S, Mathur P, *et al.* **The importance of intra- and inter-institutional networks for capacity building in severe acute respiratory syndrome coronavirus 2 reverse transcription polymerase chain reaction services: experience from an oncology centre in eastern India.** Indian J Med Microbiol 2020;38: 9-17.
4. Das S, Roy S, Roy S, Goel G, Walia K, Mukherjee S, Bhattacharya S, Chandy M. **Rapid and economical detection of eight carbapenem-resistance genes in Enterobacteriaceae, Pseudomonas spp, and Acinetobacter spp directly from positive blood cultures using an internally controlled multiplex-PCR assay.** Infect Control Hosp Epidemiol. 2019 Jun;40(6):737-739.
5. Das A, Bhav S, Pal B, Arun I, Goel G, Bhattacharya S, Sen S, Das J, Bhattacharyya P. **Brucellosis Complicated by Kikuchi-Fujimoto Disease and Doxycycline-Induced Intracranial Hypertension.** Indian J Pediatr. 2019 Apr 3. doi:10.1007/s12098-019-02937-0.
6. Bhattacharya S, Sengupta K, Goel G. **Limitations of the 2016 National AIDS Control Organization guidelines regarding Human Immunodeficiency Virus testing in India.** J Acad Clin Microbiol 2018;20:57-59.
7. Basu D, Mukherjee S, Sanyal S, Mondal P, Goel G. **A comparative study on non-woven fabric and rigid container-based packaging system used in Central Sterile Supply Department: Experience from a cancer research centre in Eastern India.** J Acad Clin Microbiol 2018;46-48.
8. Muennichow CE, Goel G, Bhattacharyya A, Nair R, Chandy M, Bhattacharya S. **Clinical Outcome, Healthcare Cost and Length of Hospital Stay Among Patients With Bloodstream Infections and Acute Leukemia in a Cancer Center in Eastern India.** Infect Control Hosp Epidemiol. 2018 Jun 18:1-2.
9. Bhattacharya S, Goel G, George K, Shamsundar R, Lancy J, Sudarsana J, Devi S R, Sangeetha S, Kant K, Sathiavathy K A, Sarada Devi K L, Rejitha K, Shailaja T S, Raveendran G, John AP, Sohanlal T, Varghese G, Madhavan A, Sen B, Suseela K V,

- Ahmed SM, Mathew R, Pulikkottil SK, Philomina J B, Chinnan JP, Rani S, Iyer R, Maiti S, Nath SR, Balakrishnan SM, Raja K. **Laboratory tests and clinical management of dengue in 26 healthcare institutions in India.** J Acad Clin Microbiol 2018; 20:5-13.
10. Das P, Sengupta K, Goel G, Bhattacharya S. **Colistin: Pharmacology, drug resistance and clinical applications.** J Acad Clin Microbiol 2017; 19:77-85. (Review article)
 11. Devereux S, Goel G, Sengupta K, Bhattacharya S. **Blood stream infections as a predictor of length of hospital stay and cost of care in patients with cancer.** J Acad Clin Microbiol 2017; 19:118-20. (Brief communication)
 12. Chandy M, Das A, Bhattacharyya A, Banerjee S, Dhar K, Goel G, Bhattacharya S. **Colistin-Resistant Klebsiella Infections Among Pediatric Oncology and Hematopoietic Stem Cell Transplantation Patients in Eastern India.** Infect Control Hosp Epidemiol. 2017 Nov 27:1-3. (Letter)
 13. Goel G, Chandy M, Bhattacharyya A, Banerjee S, Chatterjee S, Mullick S, Sinha S, Sengupta K, Dhar K, Bhattacharya S, Rudramurthy S, Chakrabarti A. **Mortality associated with candidemia in non-neutropenic cancer patients is not less compared to a neutropenic cohort of cancer patients.** Eur J Clin Microbiol Infect Dis. 2017 Aug 11. doi: 10.1007/s10096-017-3078-5. [Epub ahead of print] PubMed PMID: 28801726.
 14. Ravi N, Laha A, Hmar L, Chatterjee S, Goswami J, Goel G, Dhar K, Ghosh T, Chatterji S, Datta SS, Bhattacharya S. **Exploring the prescribing behaviours and the mind of antibiotic prescribers is critical for a successful antibiotic stewardship programme: Results of a survey from Eastern India.** Indian J Med Microbiol 2017;35: 299-301.
 15. Goel G, Bhattacharya S, Chandy M. **Soaps and infection control: From chemistry to microbiology.** J Acad Clin Microbiol 2017;19:66-9.
 16. Das P, Mahto R , Goel G, Chandy M, Bhattacharya S. **Relative potency of different generic brands of Piperacillin-Tazobactam in India compared to the original molecule by agar diffusion method: Implications for clinical management.** Infect Control Hosp Epidemiol. 2017 (Letter). In press.
 17. Goel G, Laha A, Sarkar De M, Bhattacharya S, Mahajan A, Ramanan VR, Chandy M. **The Economics of a Chickenpox Outbreak in an Oncology Center in Eastern India.** Infect Control Hosp Epidemiol. 2015 Nov;36(11):1370-2. (Letter)
 18. Das K, Bhattacharyya A, Chandy M, Roy MK, Goel G, Hmar L, Bhattacharya S, Roy P, Chakrabarti A. **Infection Control Challenges of Infrequent and Rare Fungal Pathogens: Lessons from Disseminated Fusarium and Kodamaea ohmeri Infections.** Infect Control Hosp Epidemiol. 2015 May 7:1-2. [Epub ahead of print] PubMed PMID: 25998614.(Letter)
 19. Bhattacharya S, Goel G, Mukherjee S, Bhaumik J, Chandy M. **Epidemiology of Antimicrobial Resistance in an Oncology Center in Eastern India.** Infect Control

- Hosp Epidemiol. 2015 Apr 22;1-2. [Epub ahead of print] PubMed PMID: 25899762. (Letter)
20. Basu S, Goel G, Bhattacharya S. **Infection prevention in transfusion practice.** Infect Control Hosp Epidemiol. 2015 May;36(5):613-4. (Letter)
 21. Goel G, Das D, Mukherjee S, Bose S, Das K, Mahato R, Bhattacharya S. **A method for early detection of antibiotic resistance in positive blood cultures: experience from an oncology center in eastern India.** Indian Journal of Medical Microbiology 2015; 33(Supplement 1): S513-58.
 22. Bhattacharyya A, Krishnan S, Saha V, Goel G, Bhattacharya S, Hmar L. **Microbiology, infection control and infection related outcome in pediatric patients in an oncology center in Eastern India: Experience from Tata Medical Center, Kolkata.** Indian J. Cancer, 2014 October; 51(4).
 23. Bhattacharya S, Chatterjee S, Goel G, Mahajan A, Ramanan VR, Chandy M. **Epidemiology of sharps injury and splash exposure in an oncology care center in eastern India".** Infect Control Hosp Epidemiol. 2014 Sep;35(9):1201-3.
 24. Goel G, Hmar L, Sarkar De M, Bhattacharya S, Chandy M. **Colistin Resistant *Klebsiella pneumoniae*: report of a cluster of twenty-four cases from a new oncology center in Eastern India.** Infect Control Hosp Epidemiol. 2014 Aug;35(8):1076-7.
 25. Bhattacharya S, Das D, Bhalchandra R, Goel G. **Patient Isolation In The High-Prevalence Setting: Challenges With Regard To Multidrug-Resistant Gram-Negative Bacilli.** Infection Control And Hospital Epidemiology 2013 Jun;34(6):650-1.
 26. **High prevalence of antibiotic resistant strains in fecal surveillance cultures of patients from a new tertiary care cancer center in eastern part of India".** J Clin Oncol 31, 2013 (suppl: abstr e 20686). ASCO 2013- (May 31 - June 4, 2013). Abstract submission- ID: 114029.

BOOK CHAPTER:

1. Bhattacharya S, Bhalchandra R, Goel G, Hmar L. **"Microbiological Assessment before Surgical Intervention"** in book **"Microbiology for Surgical Infections: Diagnosis, Prognosis and Treatment"**. Academic Press (an imprint of Elsevier), 2014, London. (ISBN: 978-0-12-411629-0).

National and international courses, conferences and meetings

Title of course/conference	Date(s)	Venue
Faculty lecture- "Role of Respiratory virus PCR in patients with malignancy" - State Chapter CME of Chhattisgarh Association of Medical Microbiologists (CAMM)	11/01/2020	Balco Medical Centre, Raipur, Chhattisgarh
Panel discussion- Surgical Site Infections- Infection	16/11/2019	Seminar Hall, 2nd Floor, Phase II, Tata Medical

control and Microbiologist perspective- Seminar: Safe Surgery Saves Lives- Organised by Nursing department- Tata Medical Center, Kolkata		Center, Kolkata. India
Antimicrobial Stewardship Program (AMSP) workshop: Sponsored by the Indian Council of Medical Research (ICMR)	14/06/2019- 15/06/2019	Tata Medical Center, Kolkata, India
CME on Tuberculosis: Supported by: Joint Effort for the Elimination of Tuberculosis (JEET) project and FIND India (foundation for Innovative New Diagnosis)	28/02/2019	Tata Medical Center, Kolkata
Bio-Safety & The Use of Technology and Knowledge Bank in Modern Medical Practice: Supported by Centers for Disease Control and Prevention (CDC)	10/12/2018- 11/12/2018	Premashraya, Tata Medical Center, Kolkata, India
Federation Of Infection Societies/ 11 th Healthcare Infection Society (HIS) International Conference 2018	26/11/2018 – 28/11/2018	The Arena and Convention Centre (ACC), Liverpool, UK
8 th Annual Conference of Clinical Infectious Society	16/8/2018 – 18/8/2018	Christian Medical College, Vellore. India
3 rd workshop on Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India- CDC-AIIMS Project	28/2/2017- 1/3/2017	India Habitat Center, New Delhi. India
Federation Of Infection Societies/ 10 th Healthcare Infection Society International Conference 2016	6/11/2016 – 8/11/2016	EICC, Edinburgh. UK.
Workshop on “Good Clinical Practices” by Clinical Development Services Agencies (CDSA)	28/04/2016	Tata Medical Center, Kolkata, India.
19 th WHO-ICMR-PGIMER National Training Course on “Diagnostic Medical	18/05/2015 – 23/05/2015	Center of Advanced Research in Medical Mycology, PGIMER,

Mycology-Conventional and Molecular Techniques".		Chandigarh. India.
4th Annual Conference of the "Molecular Pathology Association of India" (MPAI)	13/02/2015 - 16/02/2015	Tata Medical Center, Kolkata, India.
"Internal Audit & Quality Management Systems"- Certificate Course as per ISO 15189- 2012	07/01/2015 – 10/01/2015	Hotel Senator, Camac Street, Kolkata, India.
Mycocon- 2014 (Fungal Infection Study Forum (FISF) and Mycology Master Class 2014)	14/11/2014- 16/11/2014	Science City, Kolkata, India.
"IAMM- Delhi Chapter"- Quarterly Meet	29/03/2014	Maulana Azad Medical College, New Delhi, India.
"Clinical Microbiology workshop and FRCPath examination primer"	26/09/2013 – 27/10/2013	Tata Medical Center, Kolkata, India.
CME on "Antimicrobial susceptibility Testing-Lab to Clinics- An Update"	07/07/2013	Global Hospitals, Hyderabad, India.
CME cum Workshop on "Pulmonary critical Care"	05/04/2013 – 07/04/2013	Command Hospital, Eastern Command, Kolkata, India.
IAMM National XXXVI Conference, New Delhi- Microcon 2012	22/11/2012 – 25/11/2012	New Delhi, India.
Workshop on "Newer Diagnostic Methods Of Detection Of MDR TB Under RNTCP"	21/11/2012	L.R.S. Institute of TB & Respiratory Diseases, New Delhi, India.

Undergraduate/postgraduate teaching

Trainees	Institute	Time period	Role as teacher
Undergraduate (MBBS, BDS, MLT, DMLT)	Subharti Medical College, Meerut. India.	01/02/2006- 31/05/2006	Demonstrator- Practical sessions and demonstrations
Undergraduate (MBBS, DMLT)	Governement Medical College, Surat. India.	31/5/2007- 13/12/2010	Resident- Practical sessions and demonstrations
Undergraduate (MBBS, DMLT) Postgraduate (MD)	Subharti Medical College, Meerut. India.	17/12/2010 – 29/4/2011	Assistant Professor- Theory classes, taking exam and practical sessions. Journal clubs for MD (Postgraduate) students.

DMLT Students	Tata Medical Center, Kolkata	January- 2018 onwards	Theory classes and supervision
M. Sc- Molecular Medical Microbiology	Joint M.Sc-Ph.D. program- IIT Kharagpur & Tata Medical Center, Kolkata	31/10/2018- Onwards	Visiting Faculty

Oral Presentations

Title of talk/presentation	Date(s)	Venue
Annual Hospital Antibiogram-2021 & Department-wise analysis	23/05/2022	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
Morbidity in Candidemia patients	18/12/2021	The Morbidity improvement And Mortality Review Conference (MARC)- Monthly Meeting- Tata Medical Center, Kolkata
Standard Precautions & Infection control	26/07/2021	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
10 years Journey- Microbiology & Infection Control	21/06/2021	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
Antibiotic resistance and challenges	15/02/2021	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
Covid-19: Infection Prevention and Control	06/07/2020	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
Role of Respiratory virus PCR in patients with malignancy	11/01/2020	Balco Medical Centre, Raipur, Chhattisgarh (State Chapter CME of Chhattisgarh Association of Medical Microbiologists)
Panel discussion- Surgical Site Infections- Infection control and Microbiologist perspective - Seminar: Safe Surgery Saves Lives	16/11/2019	Seminar Hall, 2nd Floor, Phase II, Tata Medical Center, Kolkata.
Lab techniques for early detection of Antimicrobial Resistance (AMR)- phenotypic and molecular tools	14/06/2019	Antimicrobial Stewardship Program (AMSP) workshop: Sponsored by the Indian Council of Medical Research (ICMR)
Lab Diagnosis of Tuberculosis	28/02/2019	CME on Tuberculosis: Supported by: Joint Effort for the Elimination of Tuberculosis (JEET) project

		and FIND India (foundation for Innovative New Diagnosis). Tata Medical Center, Kolkata
Basics of Bio-Safety	10/12/2018	Bio-Safety & The Use of Technology and Knowledge Bank in Modern Medical Practice, Tata Medical Center, Kolkata
When small antibiotics can be big	10/09/2018	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata
Annual Hospital Antibigram analysis	30/06/2018	Hospital Infection Control Committee, Tata Medical Center, Kolkata
Recent advances in Sepsis: Microbiology perspective- <ul style="list-style-type: none"> • "Routine blood-work & Sampling methods", And "Serological diagnostic techniques" in Sepsis • Case-Based Discussions- Fungal infection in immunocompromised host 	11/11/ 2017	Multispeciality Critical Care Congress, 2017 Workshop – Advanced Sepsis Life Support Venue: 3rd floor, Conference Hall, Utility Building, NH-RTIICS
Are medicated soaps better than non-medicated soaps?	30/10/2017	Grand rounds, Tata Medical Center, Kolkata
Surveillance culture for antibiotic resistant bacteria	15/09/2017	"Infection Control in Bone Marrow Transplantation" Pre- Conference Workshop of the conference entitled: "Leukemias from the Clinic" Tata Medical Center, Kolkata
Basics in Biostatistics	14/07/2017	Tata Medical Center, Kolkata
Epidemiology And Clinical Outcome Of Patients With Invasive Mould Infections Among Patients Of The Intensive Care Unit	10/07/2017	Grand rounds, Tata Medical Center, Kolkata
Use of Information Technology in Hospital Infection Control	21/06/2017	Infection control Team meeting, Tata Medical Center, Kolkata
Emergence of Colistin Resistant Klebsiella pneumoniae in an Oncology Center in Eastern India. Abstract no 4994.	6/11/2016	Federation Of Infection Societies/ 10 th Healthcare Infection Society International Conference 2016. EICC, Edinburgh. UK.
Basics of molecular diagnostics and biohazard risk assessment in microbiology	14/09/2016	Molecular Microbiology Workshop at Tata Medical Center, Kolkata. Supported by Indian Council of Medical

		Research (ICMR)
Application of molecular biology in antibiotic resistance testing	13/09/2016	Molecular Microbiology Workshop at Tata Medical Center, Kolkata. Supported by ICMR
Antibiotic resistance at Tata Medical Center, Kolkata: 5-year Trend analysis- 2011-2015	20/06/2016	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata. Board Room, Tata Medical Center, Kolkata
Miscellaneous issues in clinical Microbiology	20/06/2016	Tata Lecture Series (TALES), weekly Meeting- Tata Medical Center, Kolkata. Board Room, Tata Medical Center, Kolkata
Economics of A Chickenpox Outbreak in an Oncology Center	12/12/2015	Micro-D-Con 2015, 7th Annual Conference IAMM-Delhi Chapter, India Habitat Center, Delhi
Epidemiology Of Hospital Acquired Infection	07/12/2015	Belle Vue Hospital, Kolkata
Role of CRP/ Procalcitonin in Fungal Sepsis	2/6/2015	Tata Medical Center, Kolkata
Disinfectant testing	4/11/2014	Tata Medical Center, Kolkata
Surveillance culture at Tata Medical Center	19/01/2013	BMT Annual Meet, Tata Medical Center, Kolkata
Fusarium, A boat shaped pathogen	31/12/2012	Grand rounds, Tata Medical Center, Kolkata
Microbiology of Pathogenic Bacteria in Hemato - Oncology and BMT	27/09/2012	Multidisciplinary Meeting, Tata Medical Center, Kolkata
Antibiotics After Major Cancer Surgeries: How Much Is Enough?	16/06/2012	Multidisciplinary Meeting, Tata Medical Center, Kolkata
Pharmacokinetic and Pharmacodynamic Issues in the Treatment of Bacterial Infectious Diseases	7/5/2012	Tata Medical Center, Kolkata

Workshops, Seminars, CME, Conference abstracts and Posters

1. Correlation of anti-fungal use and increasing resistance: Retrospective analysis from an Oncology Center in Eastern India- Goel G, Pereira LM, Bhattacharya S. Poster abstract number- 195, 11th HIS/ FIS- Liverpool-UK- 26-28 November, 2018.
2. Quantum Of Bio-Medical Wastes Generated From An Oncology Hospital In Eastern India: Trend Analysis And Cost Implications- HISICON 2017
3. Epidemiology of Colistin Resistant Klebsiella infections among pediatric oncology and hematopoietic stem cell transplantation patients in eastern India- ESPID- 2017
4. Bhattacharya S, Bhattacharyya A, Goel G, Das P, Chandy M. Effect of standard precautions without patient isolation on bacteraemia rates among pediatric cancer

- patients in a setting with high prevalence of multi-drug resistant organisms. ESPID 2017. Abstract number: ED08. 25th May 2017.
5. Das P, Bhattacharya S, Goel G, Dhar K, Chandy M. A comparative evaluation of relative potency of different brands of fosfomycin available in India by agar diffusion method: implications for clinical management. ESPID 2017. Abstract number: AE02b . 24th May 2017.
 6. Bhattacharya S, Bhattacharyya A, Goel G, Das A, Chandy M. Epidemiology of colistin resistant *Klebsiella* infections among pediatric oncology and hematopoietic stem cell transplantation patients in eastern India. ESPID 2017. Oral presentation. 25th May 2017.
 7. Workshop- Biorisk Management Training (BRM) organized by IQLS (Integrated Quality Laboratory Services), supported by Division of Global Health Protection, Centers for Disease Control and Prevention (CDC), India. (October-2017). New Delhi.
 8. Workshop- 3rd workshop on Capacity Building and Strengthening of Hospital Infection Control to detect and prevent antimicrobial resistance in India- CDC-AIIMS Project- India Habitat Center, New Delhi. (June-2017)
 9. Workshop- ICMR Antimicrobial Stewardship Program (AMSP) - Tata Medical Center, Kolkata. (May-2017)
 10. Spectrum of respiratory viral infections in children with cancers: Experience from a tertiary cancer centre in eastern India- *Pediatric Hematology Oncology Journal* 1 (2016)
 11. Sahu M, Sengupta K, Goel G, Bhattacharya S. Are MIC Values Important in Routine Microbiology/ Bacteriology Reports? Results Of a Survey From a Cancer Hospital in Eastern India. *Microcon*, 2015. JIPMER, Puducherry. AMR-II, 236. 25-29th Nov 2015. (Oral presentation)
 12. Bhalchandra R, Goel G, Hmar L, Sengupta K, Bhattacharya S. Profile Of Infections Caused By *Acinetobacter* spp. *CIDCON* 2015, New Delhi, 21-23 August 2015.
 13. 4th Annual Conference of the "Molecular Pathology Association of India" (MPAI) at Tata Medical Center, Kolkata, India, 13-16th February- 2015.
 14. Scientific poster titled "Epidemiology Of Antimicrobial Resistance In An Oncology Centre In Eastern India". Sanjay Bhattacharya, Gaurav Goel, Jaydip Bhaumik, Mammen Chandy. Federation of Infection Societies, UK: Harrogate 24-26 Nov 2014. FIS 2014- Abstract No. 0229; Poster no: 0043- Category: Public Health and Epidemiology.
 15. Scientific poster titled "Fungemia due to *Kodamaea ohmeri*: a treatment dilemma", *Mycoccon*- 2014, Kolkata, Reg. No- 101, Poster number- P27.
 16. Scientific poster titled "Disseminated Fusariosis in Immunocompromised Hosts", *Mycoccon*- 2014, Kolkata, Reg. No- 101, Poster number- P19.
 17. "IAMM- Delhi Chapter"- Quarterly Meet- 29-March-2014- Maulana Azad Medical College, New Delhi.
 18. "Internal Audit & Quality Management Systems"- Certificate Course as per ISO 15189-2012, conducted by Foundation for Quality (India).
 19. "Clinical Microbiology workshop and FRCPath examination primer": Tata Medical Center, Kolkata: 26th and 27th October 2013
 20. CME on "Antimicrobial susceptibility Testing-Lab to Clinics- An Update" organized by Dr. Ranganathan Iyer, Global Hospitals, Hyderabad. July- 2013.
 21. Workshop on "Good Clinical Practices" organized by Clinical Development Services Agencies (CDSA) on April, 20th, 2013 at Tata Medical Center, Kolkata.
 22. CME cum Workshop on "Pulmonary critical Care" at Command Hospital, Eastern Command, Kolkata- 5-7th April, 2013.
 23. Presented a scientific poster titled "A Method For Early Detection Of Antibiotic Resistant Organisms In Bacteremic Patients", Poster Code Number- BP37, published at

page no.- 180, Souvenir of the IAMM National XXXVI Conference, New Delhi- Microcon 2012- Reg. No- 120173

24. Workshop on “Newer Diagnostic Methods Of Detection Of MDR TB Under RNTCP” at L.R.S. Institute of TB & Respiratory Diseases, during MICROCON-2012.
25. Scientific Poster on “Snapshot of MDRO infection in a new surgical oncology unit”- NATCON- 2013, Goa. A Gupta, G Goel, S Banerjee, S Bhattacharya, M K Roy
26. Workshop on “CAP Accreditation and awareness activities”, organized by Suraksha Diagnostics, Kolkata. April- 2012.
27. 10th Annual Meeting on “Evidence Based Management of Cancers in India” (Infections and Cancer Module) at Tata Memorial Hospital, Mumbai, India, 2012.
28. Microcon-2011 (Delhi Chapter) at Sir Ganga Ram Hosptal, New Delhi and All India Institute of medical Sciences, New Delhi, 2011.
29. Participated in C.M.E. on Topic “Diagnostic Techniques In Virology” at B.J. Medical College, Ahmedabad, 2010.
30. CME cum Workshop on “Molecular Techniques in Clinical Microbiology” organized by Dept. Of Microbiology, S.G.P.G.I.M.S. Lucknow, 2009.
31. Second National Conference & CME of Indian Academy of Tropical Parasitology (TROPACON 2) at AIIMS, 2008 on “Opportunistic Human Parasites in AIDS.
32. 5th Annual Conference of Indian association of medical Microbiologists- Gujarat Chapter (MICROCON-2008).
33. Presented scientific poster at MICROCON- 2008 on topic “Role of PCR in early diagnosis of Leptospirosis”. Got second prize in Gujarat.
34. Participated and stood First in a debate of State level on Topic “HIV testing should be made mandatory in all patients”, Organized by Antiretroviral Treatment Centre and New Civil Hospital, Surat, a state Reference Lab. (SRL) in Gujarat, 2008.
35. Participated in the CME Program on “HIV\AIDS Preventions & Treatment Awareness”, Organized by NACO & IMA, 2007.
36. International workshop on Laboratory Techniques for Leptospirosis, supported by Dept. of Health & Family Welfare, Govt. of Gujarat, 2007.

Local meetings- (Tata Medical Center, Kolkata)

1. Regular weekly multidisciplinary meeting- **Tata Lecture Series (TALES)**
2. Mortality meeting (Once a month, Multidisciplinary)
3. Weekly Infection Control Team meeting
4. Hospital Infection Control Committee meeting (Once in 3 months)

Observership/ Experience overseas

1. Observership in medical microbiology, virology laboratory. Public Health Laboratory, Birmingham Heartlands Hospital, Bordesley Green, East, Birmingham B9 5SSPHE. (November 9, 2016 – November 23, 2016).
2. Observership in medical microbiology laboratory. Department of Microbiology, City Hospital, Sandwell & West Birmingham Hospitals NHS Trust, Dudley Road, Birmingham. + B18 7QH. (November 24, 2016 – December 8, 2016).
3. Observership in Clinical Virology laboratory. Kings College Hospital NHS Foundation Trust, Cheyne Wing, Bessemer Road, Denmark Hill, London SE5 9RS, United Kingdom. (April 20, 2017- May 6, 2017).

Quality assurance

1. IAMM: Indian Association of Medical Microbiologists IAMM- EQAS- Bacteriology and Serology
2. UK NEQAS for Microbiology- CMV quantitative PCR
3. PGIMER: Postgraduate Institute of Medical Education & Research, Chandigarh- Mycology

Journal Article Review

- Journal of The Academy of Clinical Microbiologists (JACM)

Membership of professional bodies and organisations

Professional body or organisation	Date of joining	Status of membership	Please state if membership awarded after examination or assessment
Healthcare Infection Society (HIS) UK	09/07/2018	Full Member- Yearly membership	No
National Academy Of Medical Sciences (NAMS)	08/08/2016	Life Long	Yes (After DNB exam)
The Academy of Clinical Microbiologists (ACM)	May/2017	Life member	No
Indian Association of Medical Microbiologists- Delhi Chapter	20/01/2011	Life member	No
Medical Council Of India- West Bengal	28/03/2016	Registration of professional qualifications	No
Medical Council Of India- Delhi	09/05/2014	Registration of professional qualifications	No
Journal of The Academy of Clinical Microbiologists (JACM)	2017 to 2020	Assistant Editor of journal	No

Achievements/ Awards

1. Selected for oral presentation- FIS/ 10th Healthcare Infection Society International Conference 2016, Edinburgh, UK
2. Selected for international travel award for presenting abstract in FIS/11th Healthcare Infection Society (HIS) International Conference 2018, Liverpool, UK (November-2018)

Certifications

Good Clinical Practices (GCP) - Training workshop- Certificate- 23/03/2019, held at Tata Medical Center, Kolkata (Supported by Novartis)