



Government of West Bengal  
**Institute of Postgraduate Medical Education & Research**  
**Centre of Excellence in Medical Education & Research**

## Biochemistry

### FACULTY

Prof. (Dr.) Mousumi Mukhopadhyay, MD	Professor and Head of the Department
Prof. (Dr.) Pinaki Sarkar, MD	Professor
Dr. Kapil Dev Lahiri	Assistant Professor
Dr. Kasturi Mukherjee, MD, DNB	Assistant Professor
Dr. Jayati Roy Choudhury, MD	Assistant Professor
Dr. Arghya Ray Chaudhuri, MD	Assistant Professor
Dr. Tanushri Khatua, MD	Demonstrator
Dr. Saumyajit Maity, MD	Demonstrator
Dr. Bithika Ghosh, MD	Demonstrator

### Senior Residents

Dr. Abhijit Saha, MD Dr. Shibasis Ghosh, MD Dr. Sebanti Chakraborty, MD	Dr. Papia Mondal, MD Dr. Madhushree Pahari, MD
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### Postgraduate trainees

Session 2022-25	Session 2021-24	Session 2020-23
Dr. Meenakshi Chatterjee Dr. Sudipta Malik Dr. Subhadip Mondal Dr. Debasrita Sarkar	Dr. Debajit Majumder Dr. Sushmita Mitra Dr. Madhurima Bhattacharyya Dr. Durbashree Das Dr. Abhirupa Nath Dr. Manas Kumar Mandal Dr. Utpal Samanta	Dr. Asis Bhattacharya Dr. Soham Biswas Dr. Animesh Sardar Singh Dr. Debi Mallick Dr. Debraj Bhattacharyya Dr. Sekh Rajib Dr. Sankar Narayan Maity

### Medical technologists

Pijush Kanti Mukherjee, M.T. (Lab) Biplab Sarkar, M.T. (Lab) Sudeshna Das, M.T. (Lab) Aditya Mukherjee, M.T. (Lab)	Kamalesh Pandey, M.T. (Lab) Ujjal Patra, M.T. (Lab) Kakali Chakrabarti, M.T. (Lab) Prabhat Jana, M.T. (Lab)	Ipsita Mitra, M.T. (Lab) Sajjad Hossain, M.T. (Lab) Utsav Mallick, M.T. (Lab) Kausik Roy, M.T. (Lab)
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### Other non-teaching staff

1. PARBOTI DEVI 2. SATBIR BALMIKI 3. SUKU MALLICK	Group D staff SWEEPER SWEEPER
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### TRANSFERS, POSTINGS AND SUPERANNUATIONS

- Dr. Kapil Deb Lahiri has been transferred to Raiganj Medical college and Hospital as Associate Professor, Dept. of Biochemistry.
- Dr. Debojyoti Bhattacharjee has been transferred to Bankura Sammelani Medical College and Hospital as Professor, Dept. of Biochemistry.
- Dr. Koushik Mondal has been transferred to IPGME&R and SSKM Hospital as Associate Professor, Dept. of Biochemistry.
- Dr. Ethena Das SR transferred to ID BG Hospital in the same capacity.
- Dr. Debabrata Chatterjee SR transferred to Kandi Subdivisional Hospital in the same capacity
- Mr. Bikash Kumar Pati superannuated on 30.06.22.

### **ACADEMIC ACTIVITY**

- Theory and practical classes, small group tutorials for MBBS, MD, DMLT, BPT, DOTT BSc Nursing classes.
- Thesis/dissertation of MD students.
- Post graduate seminars & Journal club.

### **Training/Conference/ Workshop Attended:**

- Workshop on Biochemistry of Anemia in December, ACCLMP at RGKar Medical College, 2022.
- Training on Basic Course in Biomedical Research organized by ICMR.
- 3 days Training on Revised Basic course workshop, 2022
- Participation in 35th Annual Conference of Association of Neuroscientist of Eastern India " at Biswa bangla Convention Center, 25th-27th November 2022
- Annual State Chapter Conference AMBICON 2022 at Novotel, Kolkata On 8th and 9th September 2022
- CME on " Measurement Uncertainty in Diagnostic Tests" on 14.9.2022
- AMBI CME and Workshop on " Preanalytic variables and Dry Chemistry Platform in the Clinical Biochemistry laboratory " at College of Medicine and Sagore Dutta hospital on 30th April 2022
- Workshop on "Application of Immunofluorescence in Medical Research " organized by Multidisciplinary Research Unit ( MRU ), IPGME&R on 21st -22nd February
- Workshop on HPLC of HBA1c in NRSMC Dec 2021
- National virtual CME in " Alzheimer disease: Lets talk about dementia" Dr. B.C roy Multi Speciality Medical Research Centre IIT Kharagpur ", September 21, 2022
- Symposium on " Cellular and Molecular Biomarkers" conducted on 14th May 2022 by Department of Biochemistry , AIIMS Rajkot

### **RESEARCH PUBLICATIONS**

1. Bhattacharjee R, Mukherjee K, Mukherjee K, Bhattacharjee D, Chowdhuri S. Prevalence of macroprolactinemia by polyethylene glycol precipitation method: a cross-sectional study. National Journal of Laboratory Medicine. 2021 Jul, Vol-10(3): 5-8.
2. Mukherjee K, Banerjee A, Bhattacharjee D, De S, Biswas A, Chakraborty R, Manna A. Liver function status in Covid-19: an Indian perspective. J Assoc Physicians India. 2021 Feb;69(2):19-21. PMID: 33527805.
3. Bhattacharjee D, Mukherjee K, Sarkar R, Chakraborti G, Das O. Abnormalities of liver function tests in acute malaria with hepatic involvement: A case-control study in Eastern India. Medical Journal of Dr D Y Patil Vidyapeeth. 2021.14(1):21-25.
4. Ghosh B, Maiti S, Mukherjee K. Assessment and interrelation of hs-CRP, Nitrosative stress and lipid profile in type-2 diabetes mellitus. International Journal of Current Research and Review. June 2021; 13(12):54-61.
5. Bandyopadhyay D, Roy Choudhury J, Mukherjee K. Vitamin B12 Deficiency in Eastern India: A Hospital Based Cross-sectional Study. Journal of Clinical and Diagnostic Research. 2021 Apr;15(4): 1-4.
6. Khatua T, Mandal T, Saha M, Majumder B. Distribution of age, gender and body weight in AMI patients in a tertiary care centre of Eastern India .Asian Journal of Medical Sciences. June 2021;12(6):75-78.

### **RESEARCH PROJECTS AND ACTIVITY**

1. Measurement of uncertainty in assessment of thyroid hormones; an evaluation in testing laboratory in a tertiary care hospital.
2. Thyroid function and related biochemical changes in patients of heart failure attending IPGME&R, SSKM hospital, Kolkata.
3. Study of ischemia modified albumin and d dimer as biomarkers of acute stroke.
4. Evaluation of analytical quality of thyroid hormones by estimating sigma matrices using performance data in a tertiary care hospital.
5. A cross sectional study to determine serum iron, ferritin, and vitamin b12 status in patients with primary hypothyroidism in a tertiary care hospital in eastern India.

6. A study of serum ischemia modified albumin and glycated hemoglobin status in type II diabetes mellitus patients attending a tertiary care hospital in Kolkata.
7. Study of micronutrient status in primary hypothyroidism at a tertiary care hospital in eastern region of India.
8. Assessment of analytical quality of a clinical biochemistry laboratory in a tertiary care hospital using sigma metrics.
9. Evaluation of biochemical parameters of patients with bipolar disorders attending a tertiary care hospital of eastern India: an analytical cross-sectional study.
10. Association of apolipoprotein B gene 12669G>A mutation with myocardial infarction in young population attending a tertiary care hospital in eastern India.
11. Association of genetic polymorphism in matrix metalloproteinase 9 (C1562T) and other risk factors with incidence of myocardial infarction in patients below 45 years of age: a case control study.
12. Early onset essential hypertension: its association with genetic variants of single nucleotide polymorphism (C677T) of methylenetetrahydrofolate reductase gene and other risk factors – a case control study.
13. Changes in lipid profile, oxidative stress, and proinflammatory markers in breast cancer patients attending in IPGME&R, Kolkata: a case control study
14. Study of alteration of hormonal and biochemical parameters (related to calcium metabolism) in patients undergoing thyroidectomy admitted in IPGME&R, Kolkata.

## SERVICE INFORMATION

### Number of samples analyzed in 2022 by Autoanalyzer, Semi autoanalyzer and ISE

SN	Parameter	Count
1.	Glucose	181857
2.	Creatinine	248148
3.	Urea	239241
4.	Total Bilirubin	194718
5.	Direct. Bilirubin	168506
6.	Total Protein	152457
7.	Albumin	170248
8.	SGPT	179364
9.	SGOT	178265
10.	ALP	167256
11.	GGT	7152
12.	Total Cholesterol	46366
13.	HDL Cholesterol	40265
14.	LDL Cholesterol	29712
15.	TG	43562
16.	Amylase	8352
17.	Lipase	7894
18.	LDH	17508
19.	Iron	8928
20.	TIBC	8928
21.	Transferrin Saturation	1178
22.	Hb	16580
23.	HbA1C	16681
24.	Calcium	38172
25.	Phosphate	25290
26.	Magnesium	9844

SN	Parameter	Count
27.	Uric Acid	35787
28.	Urine pH	864
29.	Urine Osmolality	3068
30.	Urine ACR	4862
31.	24 h urinary protein	3216
32.	Urine Calcium creatinine ratio	2580
33.	Urine for ketones	216
34.	NGRS	876
35.	BUN	19860
36.	Na+	216870
37.	K+	216870
38.	Cl-	216870
39.	CSF Sugar	3462
40.	CSF Protein	3462
41.	CSF Chloride	3462
42.	Bence Jonce protein	84
43.	Urine for amylase	36
44.	Ascitic fluid analysis	2268
45.	Pleural Fluid analysis	2142
46.	Drain fluid analysis	844
47.	Serum Osmolarity	745
48.	ADA	4458
49.	OGTT	734
50.	CPK	4626
51.	CPKMB	1368
	TOTAL	2956102

### Number of samples analyzed in 2022 by Chemiluminescence method

SN	Parameter	Count
1.	ft4	43354
2.	TSH	59256
3.	LH	3850
4.	FSH	4286
5.	PRL	7416

SN	Parameter	Count
9.	CA 15.3	286
10.	AFP	451
11.	VIT B12	748
12.	PSA	1387
13.	FERRITIN	591

6.	CA 125	789
7.	CA 19.9	634
8.	CEA	587

14.	SPEP	22
15.	fT3	252
	TOTAL	123909

**Grand Total: 2956102+123909 = 3080011**

**SPECIAL CONTRIBUTIONS TO FIGHT AGAINST COVID-19 AND OTHER SPECIAL ACHIEVEMENTS:**

1. Continuation of 24 hours laboratory services during the lockdown period.
  2. Telemedicine duties by PGTs and faculties of the department.
  3. Covid vaccination duty in hospital.
  4. Management of the laboratories running at Shambhunath Pandit Hospital, Kidderpore Maternity Home (annexes of SSKM Hospital) and Trauma Care Unit of SSKM Hospital.
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