

# Biochemistry

## FACULTY AND STUDENTS

Dr. Mousumi Mukhopadhyay	MBBS,MD	Professor & Head
Dr. Debasish Mandal	MBBS,MD	Associate Professor
Dr. Subhramay Chatterjee	MBBS,MD	Assistant Professor
Dr. Debasmita Bandyopadhyay	MBBS,MD	Assistant Professor
Dr. Sharmistha Choudhuri	MBBS, MD	Demonstrator

## Postgraduate trainees

Session 2013-16	Session 2014-17	Session 2015-18
Dr Aparajita Dhar	Dr. Suparba Chakrabarti	Dr Debasish Mandal
Dr Tapan Kr Sinha Roy	Dr. Ananya Kundu	Dr Ananya Saha
Dr Anchala Kumari	Dr. Chandramallika Paul	Dr Nilabja Das
Dr Sukanta Das	Dr. Sabyasachi Sarkar	Dr Swati Paul
Dr Ujjwal Bera	Dr. Indrajyoti Sarkar	Dr Sunita Biswas
Dr Debashree Roy	Dr. Anindya Prakash Ghosh	Dr Ananya Roy
Dr Neha Karar	Dr. Bablu Saren	Dr Sk Sariful Islam

## PhD research scholars

- Mr. Jit Poddar
- Mrs. Upasana Ganguly

## CONFERENCES AND WORKSHOPS ATTENDED

- AMBICON, 2015, Kolkata, India- Attended by all faculty members and post-graduate trainees.
- Pre-conference workshop on DNA isolation, AMBICON 2015, Kolkata, India - Attended by all post-graduate trainees.
- Second position in State level Quiz secured by Post-graduate trainees (Dr. Debashree Roy, Dr. Neha Karar, Dr Ananya Kundu and Dr. Chandramallika Paul) in AMBICON 2015.
- ACCLMPCON 2014, Kolkata, India- Attended by all faculty members and post-graduate trainees.
- ACCLMPCON 2015, Kolkata, India- Attended by all faculty members and post-graduate trainees.

## PUBLICATIONS

- Sinha Roy M, Deb N and Mukhopadhyay M. Clinical laboratory approach in a case of congenital erythropoietic porphyria. Gomal Journal of Medical Sciences Vol. 10 (2):2012; 253-56
- Dutta AK. A new PCR-RFLP method for diagnosing PNPLA3 rs738409 polymorphism. Webmed Central Genetics. 2012; 3:WMC002928
- Dutta AK, Saha S, Chatterjee S, Datta S. A dilemma in diabetes. Webmed Central Endocrinology. 2012; 3:WMC003021
- Chatterjee S, Datta AK, Saha S. Iodine deficiency disease is not endemic in women of child bearing age in Kolkata. Imt. J. Med. Biochem. 2012; 23:234-8
- Mandal D. Study of susceptibility of LDL to oxidative stress in smokers. Indian Medical Gazette
- Saha S. Dutta AK, Chatterjee S, Sengupta S, Ghosh M. Relationship of two major metabolic risk factors with severity of depression. Ind. J. Med. Biochem. 2012.
- Basu P, Bandyopadhyay D. Estimation of serum prolactin levels in patients with primary hypothyroidism. BCAIJ. 2013. 7 (4): 162-5

- Primary hyperparathyroid due to bilateral parathyroid adenoma-a clinical case report. 2014; 6 (1): 95-100.
- Choudhuri S. A repertoire of biomarkers helps in detection and assessment of therapeutic response in epithelial ovarian cancer. J. Molecular Biochemistry. 2014.
- Bir A, Sen O, Anand S, Khemka VK, Banerjee P, Cappai R, Sahoo A, Chakrabarti S.  $\alpha$ -synuclein-induced mitochondrial dysfunction in isolated preparation and intact cells: Implications in the pathogenesis of Parkinson's disease. J Neurochem. 2014 Dec;131(6):868-77.
- Banerjee K, Munshi S, Sen O, Pramanik V, Mukherjee TR, Chakrabarti S. Dopamine cytotoxicity involves both oxidative and non-oxidative pathways in SH-SY5Y cells: potential role of alpha-synuclein overexpression and proteasomal inhibition in the etiopathogenesis of Parkinson's disease. Parkinson's Disease. 2014: 878935.
- Khemka VK, Ganguly A, Bagchi D, Ghosh A, Bir A, Biswas A, Chattopadhyay S, Chakrabarti S. Raised serum proinflammatory cytokines in Alzheimer's disease with depression. Aging Dis. 2014;5(3):170-6.
- Khemka VK, Bagchi D, Bandyopadhyay K, Bir A, Chattopadhyay M, Biswas A, Basu D, Chakrabarti S. Altered serum levels of adipokines and insulin in probable Alzheimer's disease. J Alzheimers Dis. 2014;41(2):525-33.
- Banerjee P, Sahoo A, Anand S, Ganguly A, Righi G, Bovicelli P, Saso L, Chakrabarti S. Multiple Mechanisms of Iron-Induced Amyloid Beta-Peptide Accumulation in SHSY5Y Cells: Protective Action of Negletein. Neuromolecular Med. 2014;16(4):787-98.
- Chatterjee S, Mukhopadhyay M. Assessment of the inter-relationship of circulating nitrite and nitrate ratio with the female sex steroids in different phases of menstrual cycle in female of reproductive age group. Gomal Journal of Medical Sciences. Vol 13:2015.
- Das M, Ray Chowdhury P, Mondal BC, Mitra S, Bandyopadhyay D and Pramanik S. Assessment of serum magnesium level and its outcome in neonates of eclamptic mothers treated with low dose magnesium sulphate regime. Ind. J. of Pharmacology. 2015.

## **REGULAR ACADEMIC ACTIVITIES**

- Theory and practical classes for MD, MBBS, DMLT, BPT and B.Sc (Nursing) students.
- College and University examinations for MD, MBBS students.
- Journal club and seminars
- Thesis / Dissertation of MD and PhD students and regular project work.
  - Thesis submitted by 7 MD students in 2015.

## **SERVICE INFORMATION**

### **Census of tests done in last year (as on 30.11.2015)**

#### **General tests**

Test	Count
1. Alkaline Phosphatase	16,423
2. Albumin	8,154
3. Amylase	2,415
4. Bun ( Urea)	46,134
5. Biluribin	18,867
6. Creatinine	45,230
7. Calcium	4,489
8. Cholesterol	19,672
9. Direct HDL	18,554
10. Direct LDL	7,598
11. fT3	1,670
12. fT4	4,081
13. FSH	2,192
14. Na+ K+ Cl-	58,800
15. TG	24,672
16. Ca	2,405
17. Total Protein	17,106
18. HBA1C	2026
19. Prolactin	2,210
20. S.G.O.T	14,006
21. S.G.P.T	18,950
22. Sugar	79,380
23. T3	5,820
24. T4	6,984
25. TSH	9,580
26. Micro Albumin	3,088
27. 24hrs Protein	2,790
28. Uric Acid	20,048
29. LH	2,548

### Special tests

Test	Count
30. CA 125	991
31. CA 15.3	382
32. CA 19.9	31
33. CEA	313
34. PSA	1610
35. Protein electrophoresis	84
36. 25 (OH) Vitamin D3	93
37. Serum Fe	259
38. TIBC	259
39. Transferrin saturation	259
40. Ferritin	119

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