

Physiology

FACULTY

1.	Prof. Utpal Kumar Datta, MD	Professor & Head
2.	Prof. Sangita Sen, MD, PhD	Professor
3.	Dr. Ardhendu Mazumdar, MD	Associate Professor
4.	Dr. Shubhankar Kumar, MD, DNB	Associate Professor
5.	Dr. Deepankshu Shekhar Mandal, MD	Associate Professor
6.	Dr. Md. Mahboob Alam, MD	Assistant Professor
7.	Dr. Jayati Das, MD	Assistant Professor
8.	Dr. Debdeep Dasgupta, MD	Assistant Professor
9.	Dr. Sucheta Biswas, MD	Assistant Professor
10.	Dr. Subrata Nag, MD	Demonstrator
11.	Dr. Debjani Banerjee, MD	Demonstrator
12.	Dr. Bikashendu Samui, MD	Demonstrator
13.	Dr. Soma Roy, MD	Demonstrator

Postgraduate Trainee:

1.	Dr. Prasenjit Majumdar	PGT 2013-2016
2.	Dr. C. Biakhlupuii	PGT 2014-2017
3.	Dr. Manaswee Ray	PGT 2014-2017
4.	Dr. Sanchari Ghosh	PGT 2014-2017
5.	Dr. Aparajita Mitra	PGT 2014-2017
6.	Dr. Uday Sarkar	PGT 2014-2017
7.	Dr. Shib Sankar Pal	PGT 2015-2018
8.	Dr. Saikat Manna	PGT 2015-2018
9.	Dr. Rama Chakraborty	PGT 2015-2018
10.	Dr. Sourav Ganguly	PGT 2015-2018
11.	Dr. Paromita Roy	PGT 2015-2018
12.	Dr. Biswajit Das	PGT 2016-2019
13.	Dr. Souvik Banerjee	PGT 2016-2019
14.	Dr. Arijit Sain	PGT 2016-2019
15.	Dr. Subhabrata Ghosh	PGT 2016-2019

COURSES CONDUCTED BY THE DEPARTMENT:

- MBBS (150 seats)
- MD (5 seats)
- BSc (Nursing)
- BPT
- DPFT & DCLT

LABORATORY FACILITIES

- Neurophysiology laboratory for NCV studies.
- Biochemistry laboratory for routine biochemical parameters like urea, creatinine, glucose, lipid profile by spectrophotometer.
- Hematology laboratory for routine hematology investigation like Hb, TC, DLC, PCV, ESR, Platelet count, reticulocyte count & bone marrow study.
- Behavioral physiology laboratory for behavioral studies in different mazes.
- Autonomic function laboratory.

FACULTY NEWS

Prof. (Dr.) Utpal Kumar Datta

a) Guiding Thesis work of Dr. Sib Sankar Pal: Topic- Association of obesity and fatty liver in patients with gallstone disease.

b) Publications

- Chakraborty, N., Bhattacharyya, S., De, C., Mukherjee, A., Bhattacharya, D., Santra, S., Sarkar, R. N., Banerjee, D., Guha, S. K., Datta, U. K. And Chakrabarti, S. (2010): Incidence of multiple Herpes virus infection in HIV seropositive patients, a big concern for Eastern Indian scenario. *Virology Journal*, 7, 147.
- Santra, S., Basu, A.K., Roychowdhury, P., Banerjee, R., Singhanian, P., Singh, S. And Datta, U.K. (2011): Comparison of left ventricular mass in normotensive type 2 diabetes mellitus patients with that in the nondiabetic population. *Journal of Cardiovascular Disease Research*, 2, 50-56.
- Lahiri S. K., Haldar D., Chowdhury S. P., Sarkar G. N., Bhadury S. And Datta, U. K. (2011): Junctures to the therapeutic goal of diabetes mellitus: Experience in a tertiary care hospital of Kolkata. *Journal of Mid-life Health*, 2, 31-36.
- Chakraborty, A., Siddhanta, S., Bhattacharya, K., Das, A., Banerjee, S., Sarkar, R.N., Datta, U.K. and Chakraborty, N. (2013): Unravelling the Gordian knot: diagnostic dilemma in an HIV-positive patient with neurological involvement. *BMJ Case Report*, 1-4.

Prof. (Dr.) Sangita Sen:

a) Project:

- Completed a project titled " Evaluation of diabetic polyneuropathy in Type II DM by nerve conduction studies & association of severity of neuropathy with serum s-FAS level."

b) Guiding Thesis work of Dr. Saikat Manna – Role of Serum Uric Acid and Its Association with Other Risk Factors in Patients with Coronary Artery Disease

c) Publications:

- Sen S, Das S, Ray P et al. Association of microalbuminuria with glycemic index, cardiovascular function, renal function & BMI in patients with DM; A cross sectional study in eastern India. *Biomedicine* 32(3): 383-388, 2012.
- Biswas A, Chatterjee S, Chowdhury R, Sen S et al. Anti-diabetic effect of seeds of *Strychnos potatorum* (Linn) in a Streptozocin induced model of diabetes. *Acta Poloniae Pharmaceutica n Drug Research*; 69(5) 939-43, 2012.
- Mondal A, Sen S, Chanda D, Kundu S, Chatterjee M & Mukherjee S. Evaluation of diabetic polyneuropathy in type 2 DM by nerve conduction study and association of severity of neuropathy with serum sFas 1 level. *Indian Journal of Endocrinology and Metabolism* 2012; 16 (2) : S465-467.
- Sarkar A, Ghosh S, Pakrashi S, Roy D, Sen S & Chatterjee M. Leishmania strains causing self healing cutaneous leishmaniasis have greater susceptibility towards oxidative stress. *FreeRadical Research* 2012; 46 (5): 665- 673.

Dr. Ardhendu Mazumdar

- Guiding thesis work of Dr. Rama Chakraborty: Topic- Pulmonary Function Tests in Hypothyroid Patients and effect of Thyroid Hormone Replacement

Dr. Subhankar Kumar

a) Guiding thesis work of Dr. Sourav Ganguly: Topic- Difference in retention of inter- and intra-day learning process of rats.

b) Working at Rodent Memory Laboratory in the Dept. of Physiology with radial mazes (8-arm & 24-arm), Multi unit 'T' maze & Morris Water Maze to study spatial learning & memory in rat model of relevant diseases. A new work on the effect of antihistaminic drugs on performance in Morris water maze has been completed.

c) Currently in progress are research works on effect of enriched environment on non-spatial and spatial cognitive performance and on the effect of one maze training upon learning curve in another maze.

Dr. Deepankshu Sekhar Mandal

a) Guiding Thesis work of Dr. Sanchari Ghosh: Topic- Effect of enriched environment on non spatial cognitive abilities of Wister rat.

Dr. Md. Mahboob Alam

a) Projects:

- Working on the project "Assessment of autonomic functions in Systemic Lupus Erythematosus and its relation with duration, disease activity, damage index and renal complications.
- Assessment of autonomic functions in Asthma and its relation with disease severity and duration.

b) Publications:

- Alam MM, Ray B, Sarkar S, Mandal O, Mondal R, Hazra A et al. Spirometric evaluation in juvenile idiopathic arthritis: Data from Eastern India. Indian J Pediatr. 2014; 81: 1010-14
- Alam MM, Sarkar S, Ghosh P, Ray B, Mondal R. Spirometric Evaluation in juvenile systemic lupus erythematosus. Indian Pediatrics 2014; 51:909-11
- Alam MM, Das P, Ghosh P, Salimuzzaman M, Boro M, Sadhu M et al. Cardiovascular Autonomic Neuropathy in Systemic Lupus Erythematosus. Indian J Physiol Pharmacol 2015; 59(2) : 155–161
- Alam MM, Ray B, Sarkar S, Mandal O, Mondal R. Spirometric Assessment in Juvenile Idiopathic Arthritis. Indian J Physiol Pharmacol 2015; 59(2) : 199–203
- Sarkar S, Alam MM, Ray B, Chaudhuri G. Study of Blood Pressure in Medical Students in Kolkata and Its Variation with BMI, Waist Circumference, Waist-To-Hip Ratio and Waist-To-Height Ratio. JMSCR 2015; 3:4044-51

THESIS SUBMITTED IN 2016

- Dr. C. Biakhlupuii:** Reference memory error of rats in radial maze of different sizes with suppression of foraging exploration by increased travel distance within the larger maze (Under Guidance of Dr. Sangita Sen and Dr. Subhankar Kumar).
- Dr. Manaswee Roy:** Spirometric evaluation of adult MCTD patients and its relation with disease duration, disease activity and severity (Under Guidance of Dr. Ardhendu Mazumdar).
- Dr. Sanchari Ghosh:** Effect of enriched environment on non spatial cognitive abilities of Wister rat (Under Guidance of Dr. Deepankshu Sekhar Mandal and Dr. Subhankar Kumar).
- Dr. Aparajita Mitra:** Effect of training in one spatial navigation task upon the learning curve in a different spatial navigation task (Under Guidance of Dr. Utpal Kumar Datta and Dr. Subhankar Kumar).
- Dr. Uday Sarkar:** Effect of enriched environment on different cognitive abilities in rats: Visual recognition, context discrimination, working memory, spatial learning and semantic learning (Under Guidance of Dr. Subhankar Kumar).
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