Physiology

FACULTY

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

Postgraduate Trainee:

1. Dr. Madhusmita Boro    PGT 2013-2016
2. Dr. Chandan Biswas    PGT 2013-2016
3. Dr. Manil-Chandra Ghosh    PGT 2013-2016
4. Dr. Gouranga Sardar    PGT 2013-2016
5. Dr. Prasenjit Majumdar    PGT 2013-2016
6. Dr. C. Biakhlupuii    PGT 2014-2017
7. Dr. Manaswee Ray    PGT 2014-2017
8. Dr. Sanchari Ghosh    PGT 2014-2017
9. Dr. Aparajita Mitra    PGT 2014-2017
10. Dr. Uday Sarkar    PGT 2014-2017
11. Dr. Shib Shankar Pal    PGT 2015-2018
12. Dr. Sailakat Manna    PGT 2015-2018
13. Dr. Rama Chakraborty    PGT 2015-2018
14. Dr. Sourav Ganguly    PGT 2015-2018
15. Dr. Paromita Roy    PGT 2015-2018

COURSES CONDUCTED BY THE DEPARTMENT:

• MBBS (150 seats)
• MD (5 seats)
• BSc (Nursing)
• 4. BPT
• 5. DPFT & DCLT

LABORATORY FACILITIES

• Neurophysiology lab for NCV studies.
• Biochemistry lab for routine biochemical parameters like urea, creatinine, glucose, lipid profile by spectrophotometer.
• Hematology lab 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.
Prof. (Dr.) Utpal Kumar Datta

a) Guiding Thesis work of Dr. Aparajita Mitra: Topic- Effect of training in one spatial navigation task upon the learning curve in a different spatial navigation task.

b) Publications

Prof. (Dr.) Kakali Roy (Basu)

• Guiding Thesis work of Dr. Shib Shankar Pal: Topic- Association of Obesity and Fatty Liver in Patients with Gall Stone Disease

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 the following PGTs:
   • Dr. C. Biallahilupui- Reference memory error of rats in radial maze of different sizes with suppression of foraging exploration by increased travel distance within the larger maze.
   • Dr. Sankat Manna – Role of Serum Uric Acid and Its Association with Other Risk Factors in Patients with Coronary Artery Disease

c) Publications:

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 the following PGTs:
   • Dr. Uday Sarkar: Topic- Effect of enriched environment on different cognitive abilities in rats: Visual recognition, context discrimination, working memory, spatial learning and semantic learning
   • 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-
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
- Guiding Thesis work of Dr. Sanchari Ghosh: Topic- Effect of enriched environment on non spatial cognitive abilities of Wister rat.

Dr. Md. Mahboob Alam

Projects:
- Assessment of autonomic functions in Asthma and its relation with disease severity and duration.

Publications:

Dr. Sreela Ghosh Chowdhury

Publications:
- GhoshChowdhury S, Mandal O, Datta A, Chakraborty D. Effect of central adiposity on lung function tests in young adults. IOSR 2015; 14: 24-28

THESIS SUBMITTED IN 2015
- Dr. Madhusmita Boro: Evaluation of Autonomic Function in Hypothyroid Patients Before and After L – Thyroxine Therapy (Under Guidance of Dr. Utpal Kumar Datta)
- Dr. Chandan Biswas: A Study of Cardiovascular Autonomic Functions in Diabetes Mellitus Patients (Under Guidance of Dr. Utpal Kumar Datta and Dr. Md. Mahboob Alam)
- Dr. Manik Chandra Ghosh: Evaluation of Electrophysiological Changes in Asymptomatic Type 1 Diabetic Patients (Under Guidance of Dr. Sangita Sen)
- Dr. Gauranga Sardar: Effect of antihistaminic drug on spatial learning and memory recall of rats in Morris water maze (Under Guidance of Dr. Subhankar Kumar)
- Dr. Prasenjit Majumdar: Spirometric Evaluation of Adult SLE Patient and Its Relation with Duration, Disease Activity and Damage Index (Under Guidance of Dr. Archhendu Mazumdar and Dr. Md. Mahboob Alam)