

## Guidelines for writing Departmental Activities

(a) Faculty Position

Serial No	Name of Faculty	Designation
1.	Dr. Maitreyee Bhattacharyya	Director
2.	Dr. Siddhartha Sankar Ray	Professor
3.	Dr. Arnab Chattopadhyay	Asso. Prof
4.	Dr. Sambit Kr. Samanta	Asso,Prof
5.	Dr. Nilanjan Sinha	Asstt. Prof
6.	Dr. Sandeep Saha	Asstt. Prof

(b) OPD, IPD, Laboratory Investigation Information.....

**Available Clinical Material:**

- OPD

Name of OPD	Total
Thalassaemia OPD	4738
Haematology OPD	16410

- Special Clinic

Name of the clinic	Total
CML clinic	3215
Haemophilia Clinic	251
Acute Leukemia Clinic	3238
Myeloma clinic	2616

- IPD

Admission	Discharge	Death	Operations		
			Major	Minor	OPD OT
330	262	38	Not applicable	Not applicable	Not applicable

- Special Investigations

- HPLC Hb Electrophoresis: 15584
- Coagulation study : 8782
- Platelet function Study : 158
- Immunophenotyping : 285
- BM aspiration : 2739
- BM Trepine Biopsy : 2446
- Prenatal Diagnosis : 650
- Mutation Study : 600
- Serum Ferritin : 6195

( C) Academic Information:

No. of PGTs/PDTs appeared in the University exam	No. of PGTs/PDTs passed in the University exam	Medal/Reward
03(Three)	03(Three)	

( D) Seminar & Guest Lecture

Attendance in National & International conference & workshop

Serial no	Name of the conference/workshop	Faculty attended
1	International haemoglobinopathy & haemophilia workshop at Bangaluru organised by NHM	Prof. Maitreyee Bhattacharyya as faculty
2.	State DST conference	Prof. Maitreyee Bhattacharyya as faculty
3.	CME on haemophilia at Dhanbad	Prof. Maitreyee Bhattacharyya as faculty
4.	Haematology CME organised by SERCH	Prof. Maitreyee Bhattacharyya as organiser
5.	AIIMS workshop for true Hb project	Prof. Maitreyee Bhattacharyya as faculty
6.	Haematology Consortium conference at Chennai	Prof. Maitreyee Bhattacharyya as faculty
7.	Annual conference of Bihar Haematology Group	Prof. Maitreyee Bhattacharyya as faculty
8.	JBNSTS lecture	Prof. Maitreyee Bhattacharyya as faculty
9.	JB Chatterjea Centenary Celebration CME at STM	Prof. Maitreyee Bhattacharyya as organising secretary
10.	JB Chatterjea Centenary Celebration CME at NBMC	Prof. Maitreyee Bhattacharyya as organising secretary & faculty
11.	JB Chatterjea Centenary Celebration CME at Biswa Bangla Convention Center	Prof. Maitreyee Bhattacharyya as organising secretary & faculty
12.	Haematocon2018, Kochi	Prof. Maitreyee Bhattacharyya as faculty
13.	CME, IACM	Prof. Maitreyee Bhattacharyya as faculty
14.	CME, Mumbai Haematology Group	Prof. Maitreyee Bhattacharyya as faculty
15.	CME HFI at Bangaluru	Prof. Maitreyee Bhattacharyya as faculty
16.	National Thalassaemia Conference at Delhi	Prof. Maitreyee Bhattacharyya as faculty
17.	Anjan Kundu Memorial Discussion Meeting by Sir J C Bose Trust	Prof. Maitreyee Bhattacharyya as faculty
18.	Meeting of Human Rights Commission	Prof. Maitreyee Bhattacharyya as faculty
19.	Haematology CME organised by MCESA	Prof. Maitreyee Bhattacharyya as faculty
20.	Haematology CME , Gynae Dept	Prof. Maitreyee Bhattacharyya as orator.
21.	Assam Haematology Group	Prof. Maitreyee Bhattacharyya as faculty

Publication of faculty in National & International Journal

Serial no	Title of article	Journal name	Authors
1.	Efficacy of decitabine as hemoglobin F inducer in HbE/ $\beta$ -thalassemia.	Annals of Hematology.	<a href="#">Kalantri SA<sup>1</sup></a> , <a href="#">Ray R<sup>1</sup></a> , <a href="#">Chattopadhyay A<sup>1</sup></a> , <a href="#">Bhattacharjee S<sup>1</sup></a> , <a href="#">Biswas A<sup>1</sup></a> , <b>Bhattacharyya M (corresponding author)</b>
2.	Azacytidine in Juvenile Myelomonocytic Leukemia	Blood	Siddesh Kalantri, Saikat Dutta Vijaykumar Shirure, Subham Bhattacharya Maitreyee Bhattacharyya (corresponding author)
3.	Alpha globin gene mutation – a major determinant of hydroxyurea response in transfusion-dependent HbE- $\beta$ thalassaemia	Acta Haematologica	Sujana Biswas, Arijit Nag, Kanjaksha Ghosh, Rudra Ray, Kaushik Roy, Anish Bandyopadhyay Maitreyee Bhattacharyya Bhattacharyya (corresponding author)
4.	Genetic determinants related to pharmacological induction of foetal haemoglobin in transfusion-dependent HbE- $\beta$ thalassaemia	Annals of Haematology	Sujana Biswas, Arijit Nag, Kanjaksha Ghosh, Rudra Ray, Kaushik Roy, Anish Bandyopadhyay Maitreyee Bhattacharyya Bhattacharyya (corresponding author)
5.	Rivaroxaban Induced Thrombocytosis: A Perplexing Clinical Challenge	<a href="#">Indian Journal of Hematology and Blood Transfusion</a>	Arijit Nag, Maitreyee Bhattacharyya.
6.	Inherited Macrothrombocytopenia : Correlating Morphology, Epidemiology, Molecular Pathology and Clinical Features	<a href="#">Indian Journal of Hematology and Blood Transfusion</a>	Kanjaksha Ghosh, Maitreyee Bhattacharya, Ranjini Chowdhury, Kanchan Mishra Malay Ghosh
7.	<u>Management of Lymphomas: Consensus</u>	<a href="#">Indian Journal of</a>	Reena Nair Maitreyee Bhattacharyya, et al

	<a href="#">Document 2018 by an Indian Expert Group.</a>	<a href="#">Hematology and Blood Transfusion</a>	
8.	Chelation therapy using static magnetic field	BIORXIV	Jyoti Shaw, Ayan Chakraborty, Sanjoy Chatterjee, Maitreyee Bhattacharyya, Anjan Kr Dasgupta
9.	Phenotypes of Hb Okayama Mutation	Blood	Rudra Ray, Ankita Biswas, Sunistha Bhattacharjee, Maitreyee Bhattacharyya ( Corresponding Author)

#### Ongoing research activities

Serial no	Title of the research	Name of researcher
1.	Diagnostic efficacy of digital hemoglobinometer TrueHb, HemoCue and non invasive devices for screening patients for anemia in the field settings	Prof. Maitreyee Bhattacharyya
2.	Determinants Of Excess Alpha Globin Chain - As A Central Modifier Of Phenotypes In Beta Thalassemia	Prof. Maitreyee Bhattacharyya
3.	Socio-Ecological Impact & Tribal Health: A Study On Epidemiological Diversity of Thalassemia Mutations among Tribes in India and Impact of Socio-Ecological Influences	Prof. Maitreyee Bhattacharyya
4.	Prevalence and Phenotypic Expression of Macrothrombocytopenia in West Bengal	Dr. Sandeep Saha Prof. Maitreyee Bhattacharyya
5.	Fetal haemoglobin induction in HbE Beta thalassaemia – Hydroxyurea vs Decitabine	Dr. Karuna Jha Prof. Maitreyee Bhattacharyya
6.	Prevalence of immune dysfunction in non-transfusion dependant E/β thalassemia patients and its correlation with incidence of infection.	Dr. Vijay Shirure Prof. Maitreyee Bhattacharyya
7.	Epidemiological study on anemia, sickle cell disease & other mutant haemoglobins amongst the tribal community in West Bengal. A collaborative project Tribal Development Department with Department of Health & Family Welfare	Prof . Maitreyee Bhattacharyya Dr. Arnab Chatterjee Dr. Prमित
8.	Agonists free point of care platelet function test for early warning system	Dr. Suryani Deb Prof. Anjan Dasgupta Prof. Amlan Chakraborty Prof. Maitreyee Bhattacharyya
9.	Blood compatibility of clinically relevant nanoscale biomaterials	Dr. Suryani Deb Dr. Hirak Patra Prof. Maitreyee Bhattacharyya
10.	Image analysing drying pattern of blood & plasma	Prof. Sunando Dasgupta

	droplets for the rapid detection of thalassaemia carrier	Prof. Anjan Dasgupta Dr. Barnali Bhattacharyya Prof. Maitreyee Bhattacharyya
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Information about any ongoing project work in the department:

- ***Molecular characteristics of AML in India : A study from a tertiary care center of Eastern India*** : In this study we are exploring the prevalence of mutations in AML using PCR based assay and Sanger sequencing analysis. The findings are correlated with various clinicopathological characteristics which include clinical data, various hematological parameters, flow cytometry parameters and cytogenetics. The mutations found and analysed so far are majorly FLT-3( ITD and D835), IDH (1&2).
  
- ***Determinants of excess alpha globin chain- as a central modifier of phenotypes in beta thalassaemia*** : Alpha Hemoglobin Stabilizing Protein (AHSP)- a chaperone protein that stabilizes the alpha globin chain and solubilize it in RBC hence preventing RBC damage, can be a potent modulator having direct impact on altering the globin chain ratio. Thus we are investigating the genetic, molecular, biochemical mechanism associated with stabilization of alpha globin chain and altering the globin chain ratio. In the preliminary study on this aspect, we have found mutations associated with coding sequence in AHSP gene is determining the phenotype severity in HbE beta thalassaemia patients.

Special Achievements & Collaborative activities by the department

- Poster Prize Winner at Hematocon 2018 : **“Occurrence of Rare Beta Mutations & Their Phenotypes”** by Sunnista Bhattacharjee.

➤ Abstract Accepted in ASH, 2018 and published in Blood Edition :

“ Azacytidine in Juvenile Myelomonocytic Leukemia” Siddesh Kalantri, SaikatDutta VijaykumarShirure, Subham Bhattacharya Maitreyee Bhattacharyya

“Phenotypes of Hb Okayama Mutation” Rudra Ray, Ankita Biswas, Sunistha Bhattacharjee, Maitreyee Bhattacharyya

➤ Bone Marrow Transplantation being done successfully

➤ Gene sequencing for beta globin mutation detection

➤ Gene Sequencing study for AML patients

➤ Collaboration with

- i. KGP IIT ( Prof Sunado DasGupta )
- ii. Calcutta University ( Prof Anjan DasGupta )
- iii. JNU ( Dr. Jaydeep Bhattacharya )
- iv. JIPMER, Pondyicherry ( Dr. Rakhee Kar )
- v. AIIMS ( Prof Renu Saxena )
- vi. NIBGM, Kalyani ( Dr. Barnali Bhattacharya )
- vii. BIRAC, DBT ( Dr. Suryyani Deb )
- viii. University of Cambridge ( Dr. Hirak Patra )