



Government of West Bengal

Institute of Postgraduate Medical Education & Research

Centre of Excellence in Medical Education & Research

School of Digestive & Liver Diseases
(Medical Gastroenterology, Surgical Gastroenterology, Paediatric Gastroenterology, Gastrointestinal Radiology, Gastrointestinal Pathology, Gastrointestinal Anesthesiology & Center for Liver Research)

FACULTY

Medical Gastroenterology

Prof. Gopal Krishna Dhali, DM
Prof. Kshaunish Das, DM
Dr. Rajib Sarkar, DM
Dr. Partha Sarathi Patra, DM
Dr Arka Banerjee, DM
Dr. Debashis Misra, DM
Dr Bipul Barman, DM
Dr Shamik Banerjee, DM

Professor and Head
Professor
Associate Professor
Associate Professor
Associate Professor
Associate Professor
Assistant Professor
Assistant Professor

Paediatric Gastroenterology

Dr Goutam Ray, DM

Assistant Professor

Hepatology

Prof. Abhijit Chowdhury, DM
Dr. Kausik Das, DM
Dr. Mahiuddin Ahammed, DM
Dr Souvik Ghosh, DM
Dr Prasenjit Halder, DM

Professor and Head
Professor
Associate Professor
Associate Professor
RMO cum Clinical Tutor

Gastrointestinal Surgery

Prof. Sukanta Ray, MCh
Dr. Shomak Das, MCh
Dr Tuhin Subhra Mandal, MCh

Professor
Assistant Professor
Assistant Professor

Gastrointestinal Anaesthesia

Prof. Tapas Ghosh, MD
Dr. Dibyendu Garai, MD
Dr. Saikat Bhattacharya, MD

Professor
Associate Professor
Assistant Professor

Gastrointestinal Pathology

Dr. Ranajoy Ghosh, MD
 Dr. Aniket Halder, MD
 Dr. Sonali Mondal, MD
 Dr. Tamalika Kundu, MD

Assistant Professor
 Assistant Professor
 Demonstrator
 Demonstrator

Gastrointestinal Radiology

Dr. Avik Sarkar, MD

Assistant Professor

Center for Liver Research

Prof. Soma Banerjee, PhD
 Prof. Simanti Datta, PhD
 Dr. Suman Santra, PhD

Professor
 Professor
 Assistant professor

Senior residents

Dr. Kishalay, DM
 Dr. Souvik Mitra, DM
 Dr. Debarshi Bose, DM
 Dr. Manish Kumar, MD
 Dr. Jyotish Roy, MD

Postdoctoral trainees

Session 2020-23	Session 2019-22	Session 2018-21 *
Dr. Abhishek Bera	Dr. Neeraj Agarwal	Dr. Chandan Das
Dr. Abhishek Banerjee	Dr. Ankit Mahajan	Dr. Arun Baidya
Dr. Biswajit Banik	Dr. Karan Bhargav	Dr. Alok Gulati
Dr. Chandan Sharma	Dr. Bhoopender Singh	Dr. Anshuman Singh
Dr. Bhagyamani	Dr. Krishanu Banik	Dr. Sunny Uttamani
Dr. Jayati Samanta	Dr. Riten Samaddar	Dr. Dilip Kumar
Dr. Uddipta Dutta	Dr. Dipak Kumar	
Dr. Himanshu Khanna	Dr. Zubair Ansari	
Dr. Vivek Chowdhury		
Dr. Tripti Mishra		
Dr. Maimam Bobby Singh		
Dr. Abhishek Sabui		
Dr. Vivek Nagrale		
Dr. Sourin Mukherjee		
Dr. Arunesh Gupta		

* Cleared University examination in 2021

Research scholars and non-teaching staff

Debangana Dey, MSc	Senior Research Fellow (DST inspire)
Sayantani Bhowmik, MSc	Senior Research Fellow (CSIR fellow)
Ayana Baidya, MSc	Senior Research Fellow (ICMR fellow)
Swagata Majumdar, MSc	Senior Research Fellow (UGC fellow)
Anannya Chakraborty, MSc	Junior Research Fellow (DBT project fellow)
Shreya Mallik, MSc	Junior Research Fellow (ICMR fellow)
Indrashish Dey, MSc	Junior Research Fellow (UGC fellow)
Soumyabrata Chatterjee, MSc	Junior Research Fellow (UGC fellow)
Deeya Roy Chowdhury, MSc	Junior Research Fellow (DBT project fellow)
Sudeshna Halder, MSc	Junior Research Fellow (DST-SERB Project Fellow)
Sarthak Nandi, MSc	Junior Research Fellow (CSIR fellow)
Dyuti Basu Chowdhury, MSc	Research Intern
Shatabdi Biswas, MSc	Research Intern

FACULTY NEWS

Invited Lectures in the meeting/conference by Faculties:

1. **Prof. Soma Banerjee** was invited for a lecture in the Refresher Course on Biological Sciences for college and university teachers conducted by UGC Human Resource Development Centre (HRDC), University of Calcutta on 10th March, 2021. The title of the deliberation was "The functional importance of non-coding RNAs on human diseases".
2. **Prof. Simanti Datta** was invited for a lecture in the Annual Indian Society of Gastroenterology meet of Kolkata Chapter 2021 held in the hotel Radisson Fort at Raichak from 25-27th February 2020. The title of the deliberation was "immunotherapy for chronic hepatitis b virus infection: Targeting myeloid derived suppressor cells"

ACADEMIC ACTIVITY

Total Number of Students at Center for Liver Research: 13

Students awarded Ph.D. degree in 2021: 2

1. **Dr. Sourina Pal.** Her thesis title was "**Exploring the immune regulatory role of myeloid derived suppressor cells during chronic HBV infection**".
2. **Dr. Suchandrima Ghosh.** Her thesis Title was "**Genome-wide analysis of MicroRNA Signatures in HCV infected Hepatocellular Carcinoma (HCC) and Contribution of a novel candidate miRNA in Development of HCC**".

Oral and poster presentation in national meets by students

1. **Swagata Majumdar** had oral presentation on "Convergent multi-tumor suppressor microRNAs downregulated by a single lncRNA MALAT1 drives Hepatocellular Carcinoma" in Annual meeting of Society of Biological Chemists (I), Kolkata held at Sankarpur, Digha during 19-21st March 2021.
2. Oral presentation (PhD Scholar section) in the 65th Foundation Day celebration of the Institute held on 15th January 2020 by the following students:
3. **Debangana Dey** had presented "Functional defects of monocyte subsets in chronically HBV infected patients with high levels of hepatitis B surface antigen and its persistence after antiviral therapy".
4. **Anannya Chakraborty** had presented "MicroRNA-126 suppresses APAF-1-Caspase9-Caspase3 axis of Apoptosome Pathway and induces Chemo-resistance by impeding BMPR1A-SMAD4 in Hepatocellular Carcinoma".

Oral and poster presentation in international national meets by students

5. **Swagata Majumdar** had presented a poster in the AASLD Liver meeting, 2021 held on Nov. 12-15. The title of the poster was "By impeding a convergent network of multiple tumor suppressor microRNAs, MALAT1 promotes stemness in Hepatocellular carcinoma through BMPR1A, BMPR1B/ACVR2B/SMAD2/3 signaling pathway".
6. **Ayana Baidya** had presented a poster in the International conference 2021 International HBV Meeting from 26-30 September 2021. The title of the poster was "Hepatitis B virus X protein epigenetically suppresses complement C9 expression and inhibits the lytic activity of membrane attack complex".
7. **Debangana Dey** had presented a poster in the International conference 2021 International HBV Meeting from 26-30 September 2021. The title of the poster was "Insights into the multifaceted defects of monocytes in different phases of chronic HBV infection: lack of functional normalization after anti-viral therapy".

Awards received by students:

1. **Debangana Dey** had received the first prize for Oral presentation (PhD Scholar section) in 65th Foundation Day celebration of I.P.G.M.E.& R held on 15th January 2021.

2. **Anannya Chakraborty** had received the third prize for Oral presentation (PhD Scholar section) in 65th Foundation Day celebration of I.P.G.M.E.& R held on 15th January 2021.

Students registered for Ph.D. degree

1. **Anannya Chakraborty** has registered for a Ph.D. degree in the Department of Biochemistry, University of Calcutta.
2. **Shreya Mallick** has registered for a Ph.D. degree in the Department of Zoology, University of Calcutta.

PUBLICATION BY FACULTY, STUDENTS AND RESEARCH SCHOLARS

1. Ray S, Das K, Ghosh R. Isolated pancreatic and peripancreatic nodal tuberculosis: A single-centre experience. *Trop Doct.* 2021 Apr;51(2):203-209. doi: 10.1177/0049475520962941. Epub 2020 Oct 26. PMID: 33104450
2. Patra PS, Das A, Ahmed SKM, Mitra S, Dhali GK. Treatment response and long-term outcomes in biliary ascariasis: A prospective study. *Arab J Gastroenterol.* 2021 Jun;22(2):164-169.
3. Maheshwari A, Patra PS, Ray S, Dhali GK, Das K. External validation of Chronic Pancreatitis Prognosis Score(COPPS): A prospective cohort study. *Dig Liver Dis.* 2021 Sep 17:S1590-8658(21)00762-3. doi: 10.1016/j.dld.2021.08.022. Epub ahead of print. PMID: 34544675.
4. Ray S, Das K, Khamrui S, Jana K, Das R, Kumar D, Ansari Z. Short- and long-term outcome of Frey procedure for chronic pancreatitis in adults. *Am J Surg.* 2021 Oct;222(4):793-801.
5. Singh P, Chakraborty B, Sarkhel S, Ray S, Patra PS, Das K. Indian Outpatients with Idiopathic Chronic Pancreatitis Have Catastrophic Healthcare Expenditure, Malnutrition, Anxiety/Depression and Work-Impairment. *Dig Dis Sci.* 2021 Sep 28. doi: 10.1007/s10620-021-07255-0. Epub ahead of print. PMID: 34581905.
6. Jana K, Ray S, Das R, Kumar D, Mandal TS, Das S. Alcoholic vs. non-alcoholic chronic pancreatitis: surgeons' perspective from a tertiary centre in India. *Arq Bras Cir Dig.* 2021 Oct 15;34(2):e1595. doi: 10.1590/0102-672020210002e1595. PMID: 34669885; PMCID: PMC8521776.
7. Ray S, Das S, Mandal TS, Jana K, Das R, Kumar D, Ansari Z, Khamrui S. Perioperative outcome of Whipple's procedure with special attention to the impact of preoperative biliary drainage: a real-life scenario. *Updates Surg.* 2021 Oct;73(5):1735-1745. doi: 10.1007/s13304-021-01038-y. Epub 2021 Apr 3. PMID: 33811607.
8. Misra D, Das K, Chatterjee S, Mukherjee PS, Chowdhury A. Mortality pattern in cirrhosis: A reflection of liver disease burden in India. *GastroHep.* 2021 Nov; 3(6): 409-416.
9. Dhali A, Ray S, Sarkar A, Khamrui S, Das S, Mandal TS, Biswas DN, Dhali GK. Peripancreatic arterial pseudoaneurysm in the background of chronic pancreatitis: clinical profile, management, and outcome. *Updates Surg.* 2021 Nov 23. doi: 10.1007/s13304-021-01208-y. Epub ahead of print. PMID: 34816352.
10. Chakraborty D, Ghosh R, Halder A, Mondal D, Misra D. Endoscopic ultrasonographic diagnosis of pancreatic tuberculosis in immunocompetent patients-A case series from eastern India. *Indian J Gastroenterol.* 2021 Sep 16. doi: 10.1007/s12664-021-01171-x. Epub ahead of print. PMID: 34528180.
11. Parvin S, Dhali A, Biswas DN, Ray S. Bruck syndrome: a rare cause of reduced fetal movements. *BMJ Case Rep.* 2021 Dec 1;14(12):e246786. doi: 10.1136/bcr-2021-246786. PMID: 34853049
12. Dhali A, Ray S, Dhali GK, Ghosh R, Sarkar A. Duodenal Ganglioneuroma: A Rare Tumor Causing Upper Gastrointestinal Bleed. *Surg J (N Y).* 2021 Sep 14;7(3):e255-e258. doi: 10.1055/s-0041-1735644. PMID: 34541318; PMCID: PMC8440055.
13. Ray S, Kumar D, Garai D, Khamrui S. Dropped Gallstone-Related Right Subhepatic and Parietal Wall Abscess: A Rare Complication After Laparoscopic Cholecystectomy. *ACG Case Rep J.* 2021 May 12;8(5):e00579. doi: 10.14309/crj.0000000000000579. PMID: 34549058; PMCID: PMC8443814.
14. Dhali A, Ray S, Ghosh R, Sinha MGM, Khamrui S, Dhali GK. Mixed neuroendocrine-non-neuroendocrine tumour of pancreas mimicking groove pancreatitis: Case report. *Int J Surg Case Rep.* 2021 Nov;88:106524. doi: 10.1016/j.ijscr.2021.106524. Epub 2021 Oct 18. PMID: 34688070; PMCID: PMC8536533.
15. Dhali A, Ray S, Dhali GK, Ghosh R, Sarkar A. Refractory hypoglycaemia in a localised gastrointestinal stromal tumour: Case report. *Int J Surg Case Rep.* 2021 Jun;83:106023. doi: 10.1016/j.ijscr.2021.106023. Epub 2021 May 26. PMID: 34090190; PMCID: PMC8188391.

16. Dhali A, Ray S, Ghosh R, Sarkar A, Dhali GK. Massive Upper Gastrointestinal Hemorrhage in Brunner's Gland Hamartoma of Duodenum. *Cureus*. 2021 Jun 23;13(6):e15875. doi: 10.7759/cureus.15875. PMID: 34336406; PMCID: PMC8312786.
17. Dhali A, Ray S, Khamrui S, Dhali GK. Mucinous cystadenocarcinoma of pancreas mimicking gastrointestinal stromal tumor of stomach: Case report. *Int J Surg Case Rep*. 2021 Aug;85:106240. doi: 10.1016/j.ijscr.2021.106240. Epub 2021 Jul 26. PMID: 34343789; PMCID: PMC8349996.
18. Dhali A, Ray S, Dhali GK. Primary Small Cell Neuroendocrine Tumour of Gallbladder Presenting as Pyrexia of Unknown Origin. *Cureus*. 2021 Jun 23;13(6):e15874. doi: 10.7759/cureus.15874. PMID: 34327099; PMCID: PMC8302456.
19. Dhali A, Sarkar A, Ray S, Biswas DN, Dhali GK, Mahajan A. Hepatic artery pseudo-aneurysm rupturing into hepato-gastric fistula, a rare cause of massive upper gastrointestinal hemorrhage: Case report. *Radiol Case Rep*. 2021 Nov 10;17(1):133-136.
20. Ghosh I, Mukhopadhyay P, Das K, Anne M B, Ali Mondal S, Basu M, Nargis T, Pandit K, Chakrabarti P, Ghosh S. Incretins in fibrocalculous pancreatic diabetes: A unique subtype of pancreatogenic diabetes. *J Diabetes*. 2021 Jun;13(6):506-511. doi: 10.1111/1753-0407.13139. Epub 2020 Dec 16. PMID: 33247879.
21. "A combination of circulating microRNA-375-3p and chemokines CCL11, CXCL12, and G-CSF differentiate Crohn's disease and intestinal tuberculosis" Susree Roy, Suchandrima Ghosh, Mallica Banerjee, Sayantan Laha, Dipanjan Bhattacharjee, Rajib Sarkar, Sujay Ray, Arka Banerjee, Ranajoy Ghosh, Alakendu Ghosh, Raghunath Chatterjee, Simanti Datta, Gopal Krishna Dhali, and Soma Banerjee. *Sci Rep* 11, 23303 (2021).
22. Variability in the response of HBV D-subgenotypes to antiviral therapy: designing pan D-sub genotypic reverse transcriptase inhibitors. Mousumi Khatun, Krishna Kumar, Ayana Baidya, Rajiv Kumar Mondal, Ondřej Baszczyński, Filip Kalčík, Soma Banerjee, Gopal Krishna Dhali, Kausik Das, Abhijit Chowdhury, Zlatko Janeba, Saikat Chakrabarti, Simanti Datta. 2021 Nov 3; *JVI* 0180021.
23. Persistence of Hepatitis B Virus Infection: A Multi-Faceted Player for Hepatocarcinogenesis. Suchandrima Ghosh, Anannya Chakraborty, Soma Banerjee. *Front Microbiol*. 2021; 12: 678537. Published online 2021 Aug 30.

ONGOING RESEARCH PROJECTS

Central Government funded

1. **Investigating the Role of Macrophage in Hepatitis B virus mediated disease progression towards end-stage liver diseases. # BT/PR32493/MED/29/1492/2020.**
PI: Dr.Soma Banerjee,Co-PI: Prof. Abhijit Chowdhury.
Funding Agency: Department of Biotechnology, Government of India. Period: 2021-2024.
2. **To identify and validate functionally, variants in immune genes as predictor and microRNA restricting those genes as therapeutic for alcohol induced liver diseases: an in vitro and in vivo study #BT/PR24838/NER/95/868/2017.**
PI: Prof. Abhijit Chowdhury, Co-PI: Dr. Soma Banerjee.
Funding Agency: Department of Biotechnology under Twinning Program. Period: 2018-2022.
3. **"To study the role of tumor micro-environment (TME) in the pathogenesis of hepatocellular carcinoma (HCC) and prediction of potent therapeutic target."**
#BT/PR12648/MED/30/1897/2017.
PI: Dr.Soma Banerjee, Co-PI: Prof. Abhijit Chowdhury.
Funding Agency: Department of Biotechnology, Government of India. Period: 2017-2021.
4. **"Understanding the biology of monocytes during chronic Hepatitis B virus infection".**
Principal Investigator: Dr. Simanti Datta, Co-Investigator: Prof. Abhijit Chowdhury
Funding agency: DST, Government of India Period: 2019-2022.
5. **Analysis of Virological and Immunological factors to patients in e negative chronic hepatitis patients after cessation of Nucleoside/nucleotide Analogue.**
Principal Investigator: Dr Sk mahiuddin Ahammed.
Funding agency: National Health Mission, Govt. of India. Period : 2021-2022.

State Government funded

6. Virological Response to Tenofovir in a real-world chronic hepatitis B population from Eastern India and its correlation to HBV genotype, subgenotype and quasispecies structure

Principal Investigator: Dr. Kausik Das, Co-Investigator: Dr. Simanti Datta

Funding Agency: Department of Higher Education, Science & Technology and Biotechnology, Government of West Bengal. Period: 2018-2021.

7. "Identification of a noninvasive biomarker to distinguish patients with ITB and CD from integrated mRNA and MicroRNA transcription sequencing".

Principal Investigator: Dr. Soma Banerjee, Co-PI-I: Prof. G.K. Dhali, Co-PI-II: Dr. Rajib Sarkar, Co-PI-III: Dr. Sumit Sanyal.

Funding Agency: Department of Biotechnology, Government of West Bengal. Period: 2017-2021.

8. "Alterations in neutrophil extracellular traps in patient with acute on chronic liver failure (ACLF)"

Principal Investigator: Dr. Sk. Mahiuddin Ahammed

Funding agency: MRU, IPGME&R Kolkata. Year: 2018 to 2022.

SERVICE INFORMATION (January to November 2021)

OPD and In-patient service provided:			
	New Patients	Old Patients	Total patients
OPD Service:			
GE OPD	59317	25127	84444
Hepatology OPD	13217	8239	21456
GI Surgery OPD	4371	3913	8284
Pediatric Gastroenterology	1691	1442	3113
IBD clinic	824	526	1350
NVHCP	2069	4762	6831
LIVER TRANSPLANT	74	48	122
Pancreatic Clinic	-	-	431
Indoor admission:			
GE Indoor admission	-	-	572
Hepatology Indoor admission	-	-	427
GI Surgery Indoor admission	-	-	393
Polyclinic admission	-	-	1450

Endoscopy Service :	
Procedure	Number
Upper GI Endoscopy Diagnostic	5039
Upper GI Endoscopy Therapeutic	1105
Colonoscopy	1951
ERCP	1577
APC	90
Esophageal Dilatation	583
Fibro Scan	0
Liver Biopsy	95
Endoscopic Ultrasound	364
Double Balloon Enteroscopy	43
Capsule Endoscopy	26

GI- Radiology Service :	
Procedure	Number
Diagnostic Ultrasound & CT/MRI Review	10536
Vascular Interventional Procedures	
Abdominal Angiography	6
Peripheral Angiography	2
TJLB	2
TACE	5
Budd Chiari Syndrome (Bcs)	12
Visceral Aneurysm Embolisation	24
Bato/Brto/Parto/Caro	2
TIPSS	0
Splenic Hemangioma Embolization	1

Esophageal manometry	127
Anorectal manometry	57
24-Hr Esophageal pH impedance study	1
PG POLYCLINIC ENDOSCOPY SERVICES	
Upper GI Endoscopy Diagnostic	4046
Upper GI Endoscopy Therapeutic	684
Colonoscopy	1506

Brochial Artery Embolization	3
Iliac Aneurysm Graft	1
JNA Embolisation	2
Fistuloplasty	6
Central Venous Plasty / Stenting	3
Prostate Artery Embolization	1
Nonvascular Interventional Radiology procedures	269
PCD	297
FNAC	72
PTBD	128
DIAGNOSTIC ASPIRATION	8
PAIR	298
US guided biopsy	

Pathology Service :	
Procedure	Number
Surgical Biopsy	375
Endoscopic Biopsy	1812
FNAC	598
Review biopsy	48
Liver biopsy	180
Frozen sections	15
Peripheral Blood Smear	36
Body fluid analysis	894
PAP cytology - Fluids	247
Qualitative stool fat	18
Liver ITU Service :	
	Number
Admitted	228
Death	109

Gastro Surgery Service :	
Operative procedures	Number
Surgery for Chronic Pancreatitis	54
Whipple's Operation	38
Biliary Stricture	23
Recurrent Pyogenic Cholangitis	39
Extended Cholecystectomy	14
Lap/ Open Cholecystectomy	13
CBD Exploration	3
Pancreatic Necrosectomy	2
ColonPullUp	4
L-R Shunt	16
Liver Resection	34
Colon/ Rectum	19
Small bowel	15

Stomach/ Esophagus	19
Excision of Choledochal Cyst	33
Liver Transplantation	1
Miscellaneous	32
Total	359

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

All the faculties and residents were actively involved in the round the clock management of Covid infected patients with mild disease or asymptomatic presentation at the "UTTIRNO" safe home facility at Alipore.

Residents and faculties also took active involvement in the management of Covid infected patients admitted at SNPH.

Faculties and residents actively participated in Telemedicine centre at the Academic building of IPGME & R
