

Department of Biochemistry
Dhaka Medical College, Dhaka
Organogram

Sl. no	Name	Academic Qualification	Designation	Phone	Email
1.	Prof. Dr. Monzarin Mahal	MBBS, M.phil	Professor and Head	01716369514	monzarinmahal@gmail.com
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8.	Dr. Salma Akhter	MBBS. MD	Lecturer	01675224024	dr.salmarahman2015@gmail.com
9.	Dr. Ummey Salma	MBBS, M.phil	Lecturer	01719804046	Ummey4046@gmail.com
10.	Dr. Mohammad Ismail	MBBS, M.phil	Lecturer	01812261391	drmdismailcmc@gmail.com
11.	Dr. Khansa Tabassum Bushra	MBBS.MD	Lecturer	01823274419	bushrakt34@gmail.com
12.	Dr. Most. Lubna Yasmin	MBBS	Lecturer	01764911171	dr.lubna.yasmin@gmail.com

**Department of Biochemistry
Dhaka Medical College**

Academic Activities (2022-2024)

A. Undergraduate course

	Component	Total Time
M.B.B.S.	Lecture	117 hours
	Tutorial	100 hours
	Practical	100 hours
	Integrated Teaching	36 hours
	Generic Topics	5 hours
	Formative Exam (3 Terms)	42 days
	Summative Exam	30 days

B. Postgraduate course

	Component
M.Phil. (Biochemistry)	Lecture
	Supervision of lab duty
	Supervision of presentation
	M.Phil. exam
	M.Phil. thesis supervision and exam
M.Phil. (Other discipline)	M.Phil. thesis exam
	Biostatistics and medical education classes and exam

	Component
M.D. (Biochemistry)	Lecture
	Supervision of lab duty
	Supervision of presentation
	Maintenance of Log book
	Phase Assessment
	Phase A Final Examination
	Phase B Thesis Examination
	Biostatistics and medical education classes and exam
M.D. (Other discipline)	Lecture
	Assessment
	Biostatistics and medical education classes and exam

	Component
Review	Protocol of Postgraduate students (M.Phil./ M.D./ M.S./ FCPS/ Project Research work)

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Clinical Activities (2022-2024)

Date of re-starting of Biochemistry Lab- 14th August 2023

A. Lab Services:

Test Name	Monthly Average number of patients
Blood Glucose	± 1350
Blood Urea	
S. Creatinine	
eGFR	
S. Uric Acid	
S. Bilirubin	
SGPT	
SGOT	
ALP	
S. Total Protein	
S. Albumin	
AG ratio	
S. Calcium	
S. Amylase	
S. Lipase	
Lipid Profile	
Serum Electrolytes	
HbA1c	
FT3	
FT4	
TSH	
CSF Protein	
CSF Sugar	

B. Training of laboratory technologists

From 2024-

Number of students	Component
15	Lecture
	Supervision of lab duty
	Assessment

Department of Biochemistry
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Research Activities-2022

SL No.	Title	Principal Investigator	Supervisor
1	Anti SARS-CoV-2 IgG response in Covid-19 ischemic heart disease patients	Dr. Sharmin Sultana	Dr. Neelufer Sultana Chowdhury Associate Professor
2	Serum Anti SARS-CoV-2 IgG in chronic hepatitis B virus positive patients	Dr. Mohammad Mahadi Hasan Mazumder	Dr. Ifat Ara Begum Associate Professor
3	Anti SARS-CoV-2 IgG response in Covid-19 patients with chronic kidney disease	Dr. Mahfuja Rahman	Prof. Dr. Mohammad Hafizur Rahman
4	Anti SARS-CoV-2 IgG response following Covid-19 vaccine in medical students	Dr Sabiha Afrin	Prof. Dr. Mohammad Hafizur Rahman
5	Anti SARS-CoV-2 IgG response in type 2 diabetic patients before and after Covid-19 vaccination	Dr. Sabekun Nasher	Prof. Dr. Mohammad Hafizur Rahman

Research Activities-2023

SL No.	Title	Principal Investigator	Supervisor
1	Mutation in exon 20 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Mohammad Ismail	Dr. Afia Shahnaj Associate Professor
2	Mutation in exon 13 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Tahrima Tabassum	Dr. Mahbooba Akhter Associate Professor
3	Mutation in exon 7 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Prianka Saha	Dr. Monzarin Mahal Associate Professor
4	Mutation in exon 12 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Shanjana Naj Swarna	Prof. Dr. Khadija Akhter Jhuma.
5	Mutation in exon 11 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Nafisa Tasnim	Prof. Dr. Mohammad Hafizur Rahman
6	Mutation in exon 2 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Samiha Sultana	Prof. Dr. Mohammad Hafizur Rahman
7	Mutation in exon 10 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Dr. Tanvira Haque	Prof. Dr. Mohammad Hafizur Rahman
8	Detection of circulating tumor DNA in Human Epidermal Growth factor receptor 2 positive breast cancer patients in Bangladeshi women.	Dr. Farjana Sharmin	Dr. Neelufer Sultana Chowdhury Associate Professor
9	Detection of circulating tumor DNA in Tripple Negative breast cancer patients in Bangladeshi women.	Dr. Monija Akter	Prof. Dr. Mohammad Hafizur Rahman
10	Detection of circulating tumor DNA in Estrogen receptor positive breast cancer patients in Bangladeshi women.	Dr. Most. Surya Yeasmin	Prof. Dr. Mohammad Hafizur Rahman

Research Activities-2024

SL	Title	Principal Investigator	Supervisor
1	Expression of Matrix Metalloprotenase-1 gene as a potential biomarker of breast cancer	Dr. Shanchita Barman	Prof. Dr. Mohammad Hafizur Rahman
2	Expression of Gap junction β -2 gene as a potential biomarker of breast cancer	Dr. Most Touhida Shirin	Prof. Dr. Mohammad Hafizur Rahman
3	Expression of Cysatin-1 gene as a potential biomarker of breast cancer	Dr. Sumaya Najnin	Prof. Dr. Mohammad Hafizur Rahman
4	Expression of Collagen type X alpha-1 gene as a potential biomarker of breast cancer	Dr. Nilima Rani Roy	Prof. Dr. Khadija Akther Jhuma
5	Expression of Matrix Metalloprotenase-11 gene as a potential biomarker of breast cancer	Dr. Raisa Ferdous	Dr. Neelufar Sultana Chowdhury Associate Professor
6	Expression of Budding Uninhibited by Benzimidazole-1 gene as a potential biomarker of breast cancer	Dr. Khondaker Sharmin Akter	Dr. Monzarin Mahal Associate Professor
7	Expression of Matrix Metalloprotenase-13 gene as a potential biomarker of breast cancer	Dr. Anika Tasnim	Dr. Afia Shahnaj Associate Professor
8	Expression of Collagen XI alpha-1 gene as a potential biomarker of breast cancer	Dr. Arif Sardar	Dr. Mahbooba Akhter Associate Professor
9	Patterns of Antithyroid Antibodies & Anti-thyroid Stimulating Hormone Receptor Antibody in Female Infertility Patients	Dr. Homayra Nasir Samanta	Prof. Dr. Khadija Akhter Jhuma
10	Serum Lipoprotein (a) level & lipid profile in patients with chronic kidney disease	Dr. Mousumi Akter	Dr. Mahbooba Akhter Associate Professor
11	Serum Calcium, Phosphate & Vitamin D Status in multi transfused β Thalassemia Major Patients in a tertiary level hospital	Dr. Kazi Tania Rahman	Prof. Dr. Monzarin Mahal
12	Dr. Rozyna Akter Serum Vitamin D Level in perimenopausal & postmenopausal Type2 Diabetic Women & its correlation with depression	Dr. Rozyna Akter	Prof. Dr. Afia Shahnaj
13	Serum Testosterone & Estradiol in Psoriasis & their association with disease severity among adult male patients	Dr. Hor-E-Mokaddes	Prof. Dr. Neelufar Sultana Chowdhury
14	Relationship of Serum D-Dimer & Interleukin -6 level in various stages of liver cirrhosis	Dr. Jannatul Mymona Ali	Prof. Dr. Monzarin Mahal
15	Association between free Triiodothyronine, free Thyroxine & Thyroid Stimulating Hormone levels in depressive disorder patients	Dr. Arifa Akter	Prof. Dr. Khadija Akhter Jhuma
16	Association of serum interleukin-6 level & lipid profile in patients with psoriasis in tertiary care hospital	Dr. Musfika Afrin	Dr. Mahbooba Akhter Associate Professor
17	Relation of Alanine Amino transferase, Aspartate Amino transferase & Gamma glutamyl transferase with Serum Ferritin level in patients of transfusion dependent β -Thalassemia in Tertiary Care Hospital	Dr. Sangeeta Mukherjee	Prof. Dr. Afia Shahnaj
18	Evaluation of Thyroid autoantibodies in type2 Diabetes Mellitus (Ongoing)	Dr. Sharmin Khondoker	Prof. Dr. Neelufar Sultana Chowdhury

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Research Publications

SL No	Year of publication	Title	Authors	Journal Details
1	July -2023	Evaluation of Iron Status in Non- dialysis Chronic Kidney Disease Patients	Sadat MN, Kabir MA, Akhiruzzaman, Nipa UR, Alam MI, Khandoker S, Hoque MS	JDAMC, Volume- 7, Number -2
2	January-2024	Study of Components of Metabolic Syndrome like Lipid Profile in Ischemic Heart Disease	Sultana N, Chowdhury J, Kabir S	Journal of Dr. Sirajul Islam Medical College, Volume-10, Number -1

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Departmental Achievement

Result of 1st Professional Examination

Year	Number of Merit Position	Number of Honor's in Biochemistry
2022 (K-78)	07 (2 nd ,3 rd ,5 th ,6 th ,7 th ,9 th ,10 th)	31
2023 (K-79)	07 (1 st ,2 nd ,3 rd ,4 th ,7 th (2),10 th)	51

Department of Biochemistry
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Research Grants

SL No.	Year	Title	Principal Investigator	Source of grant
1	2023	Mutation in exon 2,7,10,11,12,13 and 20 of BRCA1 gene in Bangladeshi women with triple negative breast cancer	Prof.Dr. Mohammad. Hafizur Rahman Professor & Head, Department of Biochemistry 01521438565 mhrahman64@gmail.com	Bangladesh Medical Research Council (BMRC)
2	2024	Expression of different gene (COL10A1, COL11A1, CST-1, BUB-1, GJB-2, MMP-1, MMP-11, MMP-1) as a potential biomarker of breast cancer	Prof.Dr. Khadija Akther Jhuma Professor & Head, Department of Biochemistry 01711909661 Khadijajhuma2017@gmail.com	Ministry of Science & Technology