

ACTIVITIES

Photo of Department

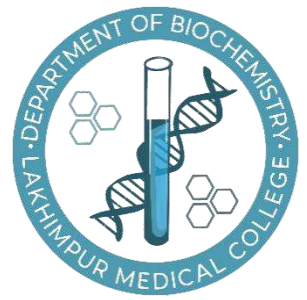


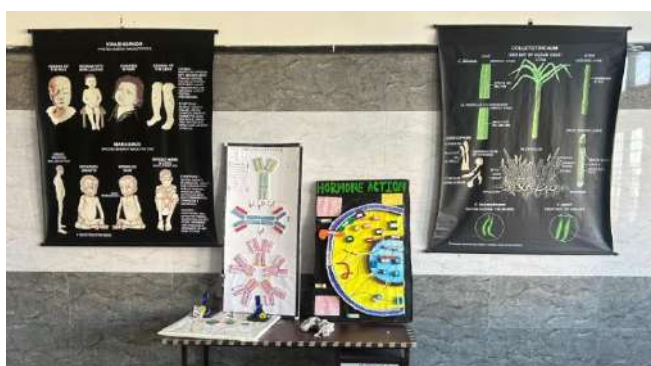
Photo of UG Lab






Photo of UG Activities

3-D Models




Projects

Martin Calvin



Born: 8th April, 1911, San Diego, MA, USA
Died: 16th January 1987, Berkeley, USA
Affiliation at the time of award: University of California, Berkeley, CA, USA

Work: He discovered a cycle of reactions, known as the Calvin cycle. This was an important test of his experiments. In 1961 he received the Nobel Prize in Chemistry, which honored him for tracing various steps in photosynthesis.



Other works: Dr. Calvin used to produce synthetic catalysts with which to tackle another scientific challenge. The objective was a device to produce oxygen photochemically from water. Dr. Calvin was the author of several books:-

1. The Theory of Organic Chemistry (1940)
2. Isotopic Carbon (1949)
3. Path of Carbon in Photosynthesis (1957)
- 4 Chemical Evolution? (1969)

Invented by: School: Stree. David Model, Faridkot Area, Punjab India,
Rajd College, Arreba District Baruch, Gandhinagar, Mumbai, Gujarat
Visit: Bioprocessor, Southern Cross Univ Australia

BATCH-2022-23

HERMANN MULLER

- The Father ofing in Phenytoin or Malonate 1946.
- Born 21 September 1890, New York, NY, USA
- Died 5 April 1967, Indianapolis, IN, USA
- His reputation "for the discovery of the production of mutations by means of x-ray irradiation"



Willark

In order to explain how organisms' genes can change, or *evolve*, species to evolve and new species to arise, a new term was coined in the late 1940s: *mutagenesis*. Mutations involve changes in an organism's genetic code. Hermann Muller studied the hereditary characteristics of fruit flies and, in 1927, discovered that the number of genetic mutations observed in fruit flies increased when they were exposed to x-rays. He found that the higher the dose of x-rays and other ionizing radiation the flies were exposed to, the greater the number of mutations that occurred.

Discovery - Genetic possibilities



RESEARCH BY:

BRUNO P. PALMISTO	JOHN A. HANCOCK (21)	JOHN A. HANCOCK (21)
AMBERLYN MATHIAS (24)	AMBERLYN MATHIAS (24)	AMBERLYN MATHIAS (24)
JOHN A. HANCOCK (21)	JOHN A. HANCOCK (21)	JOHN A. HANCOCK (21)

2nd Staff, University of New College and Integrated
 Section 2022, 31

[illegible]

VENKATRAMAN RAMAKRISHNAN	
	<p>EDUCATION</p> <p>B.Sc. I.I.T-Madras, Madras Univ. Grad. School, India</p> <p>Ph.D. Chemistry & Applied Electrochemistry</p> <p>Ph.D. Yale Univ.</p> <p>Post Doc. Fellow, Univ. of Illinois</p> <p>Visiting Scientist, University of Toronto (1982), University of California, Irvine (1983)</p> <p>Research Scientist, IBM Research Institute, Yorktown Heights, New York (1984-1987)</p> <p>Assistant Prof. Chemistry, MIT, USA, from 1987 to 1994 (1991, Apple Award, 1993, Fulbright Fellow, 1994-1995)</p> <p>Associate Professor</p> <p>Senior Lecturer, College of Engineering, New Canaan, Connecticut, USA, 1994-1996</p> <p>Associate Prof. Chemistry, MIT, USA, from 1996 to 2000 (1997, Apple Award, 1999, Fulbright Fellow, 2000-2001)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2001 to 2003 (2002, Apple Award, 2003, Fulbright Fellow, 2003-2004)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2004 to 2006 (2005, Apple Award, 2006, Fulbright Fellow, 2006-2007)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2007 to 2009 (2008, Apple Award, 2009, Fulbright Fellow, 2009-2010)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2010 to 2012 (2011, Apple Award, 2012, Fulbright Fellow, 2012-2013)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2013 to 2015 (2014, Apple Award, 2015, Fulbright Fellow, 2015-2016)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2016 to 2018 (2017, Apple Award, 2018, Fulbright Fellow, 2018-2019)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2019 to 2021 (2020, Apple Award, 2021, Fulbright Fellow, 2021-2022)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2022 to 2024 (2023, Apple Award, 2024, Fulbright Fellow, 2024-2025)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2025 to 2027 (2026, Apple Award, 2027, Fulbright Fellow, 2027-2028)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2028 to 2030 (2029, Apple Award, 2030, Fulbright Fellow, 2030-2031)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2031 to 2033 (2032, Apple Award, 2033, Fulbright Fellow, 2033-2034)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2034 to 2036 (2035, Apple Award, 2036, Fulbright Fellow, 2036-2037)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2037 to 2039 (2038, Apple Award, 2039, Fulbright Fellow, 2039-2040)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2040 to 2042 (2041, Apple Award, 2042, Fulbright Fellow, 2042-2043)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2043 to 2045 (2044, Apple Award, 2045, Fulbright Fellow, 2045-2046)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2046 to 2048 (2047, Apple Award, 2048, Fulbright Fellow, 2048-2049)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2049 to 2051 (2050, Apple Award, 2051, Fulbright Fellow, 2051-2052)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2052 to 2054 (2053, Apple Award, 2054, Fulbright Fellow, 2054-2055)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2055 to 2057 (2056, Apple Award, 2057, Fulbright Fellow, 2057-2058)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2058 to 2060 (2059, Apple Award, 2060, Fulbright Fellow, 2060-2061)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2061 to 2063 (2062, Apple Award, 2063, Fulbright Fellow, 2063-2064)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2064 to 2066 (2065, Apple Award, 2066, Fulbright Fellow, 2066-2067)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2067 to 2069 (2068, Apple Award, 2069, Fulbright Fellow, 2069-2070)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2070 to 2072 (2071, Apple Award, 2072, Fulbright Fellow, 2072-2073)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2073 to 2075 (2074, Apple Award, 2075, Fulbright Fellow, 2075-2076)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2076 to 2078 (2077, Apple Award, 2078, Fulbright Fellow, 2078-2079)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2079 to 2081 (2080, Apple Award, 2081, Fulbright Fellow, 2081-2082)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2082 to 2084 (2083, Apple Award, 2084, Fulbright Fellow, 2084-2085)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2085 to 2087 (2086, Apple Award, 2087, Fulbright Fellow, 2087-2088)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2088 to 2090 (2089, Apple Award, 2090, Fulbright Fellow, 2090-2091)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2091 to 2093 (2092, Apple Award, 2093, Fulbright Fellow, 2093-2094)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2094 to 2096 (2095, Apple Award, 2096, Fulbright Fellow, 2096-2097)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2097 to 2099 (2098, Apple Award, 2099, Fulbright Fellow, 2099-2100)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2101 to 2103 (2102, Apple Award, 2103, Fulbright Fellow, 2103-2104)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2104 to 2106 (2105, Apple Award, 2106, Fulbright Fellow, 2106-2107)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2107 to 2109 (2108, Apple Award, 2109, Fulbright Fellow, 2109-2110)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2110 to 2112 (2111, Apple Award, 2112, Fulbright Fellow, 2112-2113)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2113 to 2115 (2114, Apple Award, 2115, Fulbright Fellow, 2115-2116)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2116 to 2118 (2117, Apple Award, 2118, Fulbright Fellow, 2118-2119)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2119 to 2121 (2120, Apple Award, 2121, Fulbright Fellow, 2121-2122)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2122 to 2124 (2123, Apple Award, 2124, Fulbright Fellow, 2124-2125)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2125 to 2127 (2126, Apple Award, 2127, Fulbright Fellow, 2127-2128)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2128 to 2130 (2129, Apple Award, 2130, Fulbright Fellow, 2130-2131)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2131 to 2133 (2132, Apple Award, 2133, Fulbright Fellow, 2133-2134)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2134 to 2136 (2135, Apple Award, 2136, Fulbright Fellow, 2136-2137)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2137 to 2139 (2138, Apple Award, 2139, Fulbright Fellow, 2139-2140)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2140 to 2142 (2141, Apple Award, 2142, Fulbright Fellow, 2142-2143)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2143 to 2145 (2144, Apple Award, 2145, Fulbright Fellow, 2145-2146)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2146 to 2148 (2147, Apple Award, 2148, Fulbright Fellow, 2148-2149)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2149 to 2151 (2150, Apple Award, 2151, Fulbright Fellow, 2151-2152)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2152 to 2154 (2153, Apple Award, 2154, Fulbright Fellow, 2154-2155)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2155 to 2157 (2156, Apple Award, 2157, Fulbright Fellow, 2157-2158)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2158 to 2160 (2159, Apple Award, 2160, Fulbright Fellow, 2160-2161)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2161 to 2163 (2162, Apple Award, 2163, Fulbright Fellow, 2163-2164)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2164 to 2166 (2165, Apple Award, 2166, Fulbright Fellow, 2166-2167)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2167 to 2169 (2168, Apple Award, 2169, Fulbright Fellow, 2169-2170)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2170 to 2172 (2171, Apple Award, 2172, Fulbright Fellow, 2172-2173)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2173 to 2175 (2174, Apple Award, 2175, Fulbright Fellow, 2175-2176)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2176 to 2178 (2177, Apple Award, 2178, Fulbright Fellow, 2178-2179)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2179 to 2181 (2180, Apple Award, 2181, Fulbright Fellow, 2181-2182)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2182 to 2184 (2183, Apple Award, 2184, Fulbright Fellow, 2184-2185)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2185 to 2187 (2186, Apple Award, 2187, Fulbright Fellow, 2187-2188)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2188 to 2190 (2189, Apple Award, 2190, Fulbright Fellow, 2190-2191)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2191 to 2193 (2192, Apple Award, 2193, Fulbright Fellow, 2193-2194)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2194 to 2196 (2195, Apple Award, 2196, Fulbright Fellow, 2196-2197)</p> <p>Associate Prof. Chemistry, MIT, USA, from 2197 to 2199 (2198, Apple Award, 2199, Fulbright Fellow, 2199-22</p>

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SIDNEY ALTMAN



Early Life

Sidney Altman, born on May 1, 1929, in Montreal, Quebec, Canada, emerged as a pioneering figure in the field of molecular biology. Raised in a family of Jewish immigrants from Eastern Europe, Altman's parents (Isidor and Sarah) were dedicated to instilling a strong work ethic, which he carried through his life.

Education

At Harvard University and later the MIT Laboratory of Molecular Biology in Cambridge, England, Altman's education laid the foundation for his interests in cell, developmental and viral sciences. His breakthrough came with the discovery of catalytic properties of the *Hammerhead P*. Challenging the conventional wisdom that only proteins could be the catalytic component, his groundbreaking work, recognized with the 1982 Nobel Prize, revealed that the catalytic activity of the *Hammerhead P* is encoded in its RNA sequence, thus opening the door to the study of non-coding RNA.

Research Interests

Altman's research interests spanned a wide range of topics, including the role of catalytic RNA in the development of the immune system, the function of small RNA molecules in gene expression, and the role of RNA in the development of the nervous system. His work on the *Hammerhead P* and the *Hammerhead P* RNA sequence, which he carried through his life, was a landmark discovery in the field of molecular biology.

Academic Journey

Altman's academic journey began at MIT, where he earned his Ph.D. in 1954. He then moved to the University of Toronto, where he continued his research on the *Hammerhead P* and the *Hammerhead P* RNA sequence. His work on the *Hammerhead P* and the *Hammerhead P* RNA sequence, which he carried through his life, was a landmark discovery in the field of molecular biology.

Contributions to Science

Altman's research has been instrumental in understanding the role of catalytic RNA in the development of the immune system, the function of small RNA molecules in gene expression, and the role of RNA in the development of the nervous system. His work on the *Hammerhead P* and the *Hammerhead P* RNA sequence, which he carried through his life, was a landmark discovery in the field of molecular biology.

Awards and Honors

Altman's research has been recognized with numerous awards and honors, including the 1982 Nobel Prize, the 1988 National Medal of Science, and the 1990 National Medal of Arts. He has also received several honorary degrees and is a member of the National Academy of Sciences.

Personal Life

Altman is married to Susan Altman, and they have two children, David and Sarah. He is a member of the Jewish Community Center of Greater Boston and is active in various community organizations.

Legacy

Sidney Altman's research has been instrumental in understanding the role of catalytic RNA in the development of the immune system, the function of small RNA molecules in gene expression, and the role of RNA in the development of the nervous system. His work on the *Hammerhead P* and the *Hammerhead P* RNA sequence, which he carried through his life, was a landmark discovery in the field of molecular biology.

JENNIFER DOUDNA

As Assistant Director with the U.S. Food and Drug Administration (FDA), Jennifer Doudna is a woman whose scientific expertise is making headlines in scientific journals and in the popular press. Her expertise was in part a result of her work at the Harvard Medical School and at the Massachusetts Institute of Technology (MIT), where she was a postdoctoral fellow and a research fellow. She is currently a research fellow at the National Institutes of Health (NIH).

Dr. Doudna is a member of the National Academy of Sciences (NAS) and the American Academy of Arts and Sciences. She is also a member of the American Society for Cell Biology and the American Society for Microbiology. She is a past president of the American Society for Cell Biology and the American Society for Microbiology. She is also a past president of the American Society for Cell Biology and the American Society for Microbiology. She is also a past president of the American Society for Cell Biology and the American Society for Microbiology.

Birth & education

Dr. Doudna was born in 1978 in Cambridge, Massachusetts. She graduated from MIT in 1999 with a Bachelor's degree in Biology. She then went to MIT for her Master's degree in Biology, where she worked with Dr. David Baltimore. She then went to MIT for her Ph.D. in Biology, where she worked with Dr. David Baltimore.

Career and research

Dr. Doudna's research interests are in the field of molecular biology, specifically in the area of gene editing. She is currently a research fellow at the NIH, where she is working on developing new gene editing technologies. She is also a member of the National Institutes of Health (NIH) and the American Society for Cell Biology.

Awards

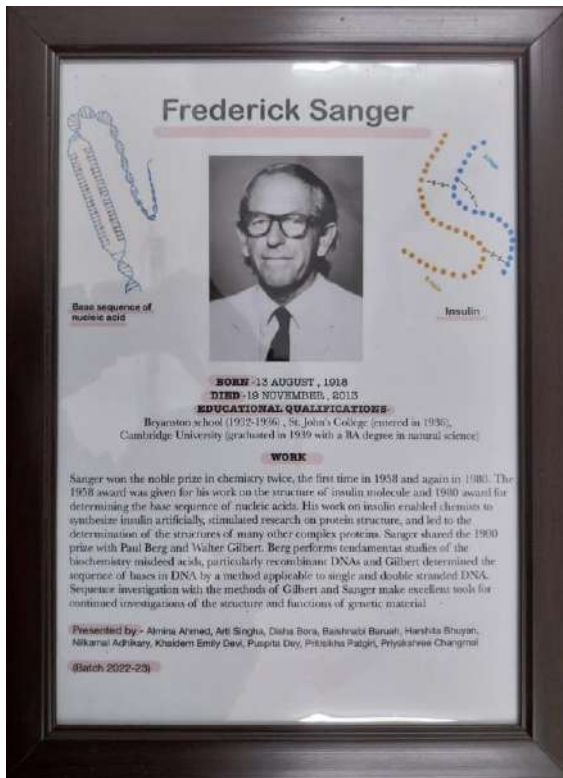
Dr. Doudna has received several awards for her research, including the National Institutes of Health (NIH) Director's Pioneer Award in 2014, the National Institutes of Health (NIH) Director's Early Career Award in 2015, and the National Institutes of Health (NIH) Director's Early Career Award in 2016. She has also received several other awards, including the National Institutes of Health (NIH) Director's Early Career Award in 2017, the National Institutes of Health (NIH) Director's Early Career Award in 2018, and the National Institutes of Health (NIH) Director's Early Career Award in 2019.

Work history

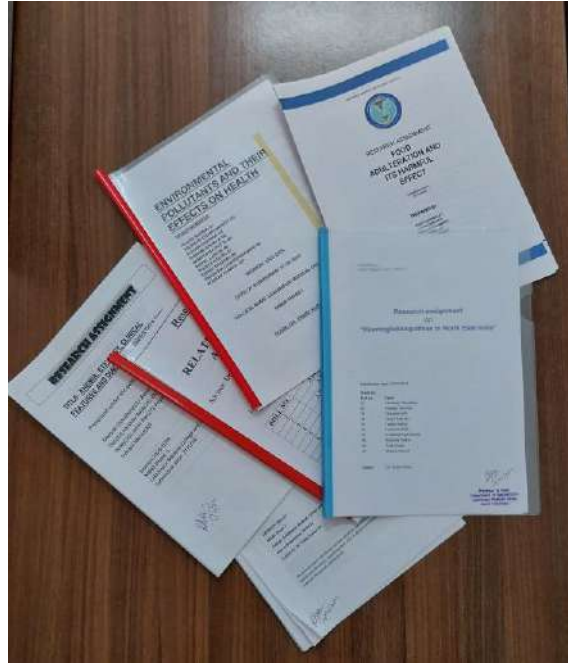
Dr. Doudna has worked at several institutions, including the Harvard Medical School, the Massachusetts Institute of Technology (MIT), and the National Institutes of Health (NIH). She is currently a research fellow at the NIH, where she is working on developing new gene editing technologies. She is also a member of the National Institutes of Health (NIH) and the American Society for Cell Biology.

Personal life

Dr. Doudna is married and has two children. She is also a member of the National Institutes of Health (NIH) and the American Society for Cell Biology.



Research Assignment



Integrated Seminar



Role Play



Students Achievement in University Exam

Session	Result	Honours
2021-22	99%	-
2022-23	100%	14
2023-24	100%	01



Quiz

Participated at National Level Quiz competition organized by Indian Medical Association (IMA) & Jaypee Brothers Medical Publishers (P) Ltd. On 13th & 14th July 2024.

1. Juhi Kumari
2. Saumya Shruti
3. Surbhi Kumari

BIOCHEMISTRY PRACTICAL MANUAL FOR M.B.B.S



1st Edition
As Per the Latest Competency-Based
NMC Curriculum

*Biochemistry Practical
Manual Published by
Department of
Biochemistry, LMCH,
Nov 2024.*

Photo of CMEs

1. Date: 10th September 2022

Title: “HAEMOGLOBINOPATHIES: SCENARIO IN NORTH-EAST INDIA”

(Jointly organized by Department of Biochemistry of LMCH & AMCH, under the aegis of Association of Clinical Chemistry and Lab Medicine Practitioners) (1st Pre-Conference CME, ACCLMPCON 2022)



2. Date: 28th March 2023

Title: “MONOCLONAL ANTIBODIES PREPARATION AND ITS DIAGNOSTIC AND THERAPEUTIC USES”

(Jointly organized by Department of Biochemistry & Pharmacology, LMCH)





3. Date: 5th April 2023

Title: "MOLECULAR TECHNIQUES IN LABORATORY MEDICINE"

(Jointly organized by Department of Biochemistry & Pathology, LMCH)



4. Date: 30th March 2023.

Title: "NUTRITIONAL & PUBLIC HEALTH ASPECTS OF VITAMIN DEFICIENCIES"

(Jointly organized by Department of Biochemistry & Community Medicine, LMCH)





5. **Date:** 3rd August 2023.

Title: “INSIGHT INTO A CLINICAL BIOCHEMISTRY LAB”
(Organized by Department of Biochemistry, LMCH)



6. Date: 17th August 2023.

Title: “MOLECULAR, RADIODIAGNOSTIC AND PHARMACOKINETICS ASPECTS OF CANCER AND ANTI- CANCER DRUGS”

(Jointly organized by Department of Biochemistry, Pharmacology & Radiology)



7. Date: 31st August 2023.

Title: “GLAUCOMA: OXIDATIVE STRESS AND IT’S MANAGEMENT”

(Jointly organized by Department of Biochemistry Ophthalmology, Pharmacology & Biochemistry, LMCH.)





8. Date: 16th May 2024.

Title: “SPECTRUM OF HEMOGLOBINOPATHIES IN NE- INDIA”
(Jointly organized by Department of Biochemistry & Paediatrics, LMCH)



9. Date: 7th June 2024.

Title: “SEPSIS: THE SILENT KILLER”

(Organized by Department of Biochemistry Under the Aegis of Association of Medical Biochemistry of India) (1st CME of Assam Chapter-AMBI)

DEPARTMENT OF BIOCHEMISTRY
LAKHIMPUR MEDICAL COLLEGE AND HOSPITAL
NORTH LAKHIMPUR, ASSAM 787051
Under the Aegis of
(Association of Medical Biochemists of India)

Continuing Medical Education
SEPSIS: The Silent Killer,
07th June 2024 (Friday) 10:30 am - 2:30 pm, AMBI Assam Chapter
First Lecture Hall 6, 4th Floor, Hospital Building, LAMCH

Speakers-

 Dr. Neelima Bora, Professor & Head of Biochemistry, Indraprastha Medical College Hospital	 Dr. Partha Pratim Das, Assistant Professor of Microbiology, LAMCH	 Dr. Abhinav Bhatia, Assistant Professor of Pathology, LAMCH	 Dr. Animesh Baruah, Quality Head, KCMH Multi-specialty Hospital, Guwahati	 Dr. Polina Baruah, Assistant Professor of Anesthesiology, LAMCH
 Dr. Sankar Sarma, Assistant Professor of Surgery, LAMCH	 Dr. Sankar Das, Professor & Head of Biochemistry, Habitat Medical College			

Organizing Committee

Organizing Chairperson Dr. Anu Inam Prof & HOD Biochemistry LAMCH Lakhimpur	Organizing Secretary Dr. Tridip Kumar Asst. Prof. & HOD Biochemistry LAMCH Lakhimpur	Organizing Member Dr. Gourav Handique Senior Lecturer, Dept of Biochemistry LAMCH Lakhimpur	Organizing Member Dr. Gourav Handique Senior Lecturer, Dept of Biochemistry LAMCH Lakhimpur
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REGISTRATION: 07/06/2024, Time: 10:00-10:30 Am (Free but mandatory)





Photo of CCL lab, Biochemistry



Training of Lab Techs



Phlebotomy Room



Report Despatch Room



District Residency Program (DRP)

Sl No	Name of PGT	Institute	Period
1.	Dr Gautom Kumar Das	AMCH	06/03/2023 to 05/06/2023
2.	Dr. Bristi Talukdar	JMCH	01/03/2023 to 30/06/2023
3.	Dr. Tanima Banerjee.	AMCH	06/06/2023 to 05/09/2023
4.	Dr. Dipika Singha.	AMCH	06/06/2023 to 05/09/2023
5.	Dr. Tishusa J. Sangma	JMCH	01/12/2023 to 29/02/2024
6.	Dr. Souvik Pramanik	AMCH	01/03/2024 to 15/06/2024
7.	Dr. Chandraj Gogoi	JMCH	01/10/2024 to 31/12/2024

Year	Seminar (Total number)	Microteaching (Total number)	Journal Club (Total number)
2023	14	10	10
2024	07	09	13

