

Workshop/ Seminar/Webinar/Hands on Training Conducted:						
(a) Title:	Hands-on workshop on Protein Purification					
(b)	Participating Students from Department of Environmental Science, St. Edmunds; Department of Biochemistry, St. Anthony's College; Department of Biotechnology, St. Anthony's College; Department of Biochemistry, Lady Keane College.					
(c) Mode:	Hands on training session in the laboratory					
(d) Duration	From	13 th December 2021	To	14 th December 2022	Contact hrs	14 hours
(e) Collaboration (if any):	None					
(f) No of Students	28					

BROCHURE/FLYER

Hands-on workshop on Protein Purification



Biochemistry Department
St. Edmund's College Shillong



December 13-14, 2021
Last Date of Registration: 4.12.2021



9.30 AM

Description

The 2.5 days workshop encompasses essential of protein purification techniques. This workshop provide hands-on training in Protein Chemistry . This workshop also provides understanding of various purification techniques and parameters governing separation. You will operate lab scale purification system using GE Akta-Start and Electrophoresis System

Who should attend

Third & Fifth Semester Bachelor of Science students of Life Sciences & Chemical Science

After the course, you will be able to:

- Design and purify protein from any sources
- Apply effective chromatographic technique and electrophoresis system
- Understand issues associated with optimizing chromatographic unit



End of the session, participants will be awarded with "Certificate of Participation"

For Registrations(click the link below):

<https://forms.gle/oc3aWRUdDyh6KFVw6>

For more details:



Dr. B.Kharwanlang - 8575598145
Prof. Purna B.Chettri- 9863923141
Dr. O.Kyndiah - 7085488084
Dr. J.Wahlang - 9089086266



proteintech2021@gmail.com

DEPARTMENT OF BIOCHEMISTRY



ST. EDMUND'S COLLEGE SHILLONG

Hands-on workshop on Protein Purification



Biochemistry Department
St. Edmund's College Shillong

December 11-14, 2021

9:10 AM

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Sl No	Name	College	Department	email id	Mobile	Signature
1	Gregoire David	Lady Kaine College	Biochemistry	gregoire.david@st-edmunds.edu	9957581001	<i>Gregoire David</i>
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Sl No	Name	College	Department	email id	Mobile	Signature
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18	Gyathika Manglaik	St. Anthony's College	Bio technology	gyathika1908@gmail.com	7642816473	Gyathika

Sl No	Name	College	Department	email id	Mobile	Signature
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[Signature]
Dr. Omkarin Kynediah
Head

[Signature]
Dr. Bantahabem Kharwanlang
Convener

[Signature]
Dr. James Wehlang
Chief Resource Person

[Signature]
Dr. Arma B. Chettri
Co-convener



DEPARTMENT OF BIOCHEMISTRY
ST. EDMUND'S COLLEGE SHILLONG

Hands-on workshop on Protein Purification

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

Damanroi Maubki

in recognition of your participation in the Hands-on Workshop
on Protein Purification
held from 13-15th December 2021


Dr. Sylvanus Lembaro
Principal


Dr. Omarlin Kyndiah
Head


Dr. Bantokhem Kharwasong
Convener

Programme

DEPARTMENT OF BIOCHEMISTRY  ST. EDMUND'S COLLEGE SHILLONG

Hands-on workshop on Protein Purification (Beginners Level)

DAY 1

8.45 AM REGISTRATION OF PARTICIPANTS

9:30 AM

Inaugural Session

Host: Ibankdup Nongbet, Fifth Semester

Welcome Address: Kuldeep Mishra, Fifth Semester

Speech: Dr. Omarlin Kyndiah, Head, Department of Biochemistry

: Bro. Raj Narona, *Secretary*

: Br.(Dr) Simon Coelho, *Coordinator, IQAC*

Inaugural Address: Dr. Sylvanus Lamare, *Principal*

TEA BREAK

10:30 am - 11:00 am

Introduction on **"The World of Proteins"**

Dr. H. S. Ranhotra

11:00 am - 12:00 pm

Theory: Sample Preparation, Homogenization, Centrifugation, Salt Precipitation & Estimation of proteins

Dr. B. Kharwanlang

1:00 pm - 1:30 pm

LUNCH

1:30 pm - 3:00

Practical: Sample Preparation, Homogenization, Centrifugation & Salt Precipitation

DAY 2

9:00 am - 10:00 am

Theory: Chromatographic Techniques

Dr. Purna B Chettri

10:00 am - 10:15 am

TEA BREAK

10:15 am-1:00pm

Practical: Gel Chromatography using GE AKTA-START System

1:00 pm -1:30 pm

LUNCH

1:30 pm - 2:30 pm

Theory: Native PAGE & SDS PAGE

Dr. James Wahlang

2:30 pm - 3:30 pm

Practical: SDS PAGE

Valedictory Session

4.30 PM

Host: Hadassah Lapang & Kristi K. Bharadwaj, First Semester

Speech : Dr. Harmit S. Ranhotra

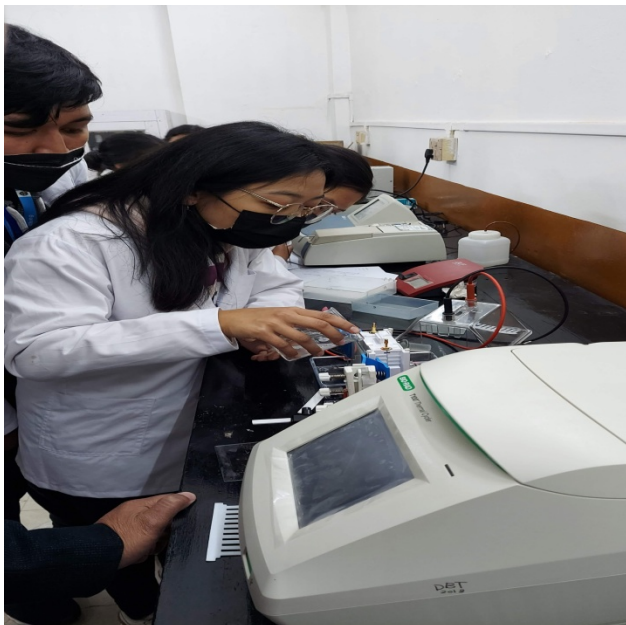
: Prof. M. Chakravarty, *Vice Principal*

: Dr. Sylvanus Lamare, *Principal*

Distribution of Certificate of Participation

Vote of Thank: Dr. B. Kharwanlang

Photos



Feedback (via Google Form)

Timestamp	Email Address	Well Organized and Focused Training met my expectations	Training was relevant to the format used good to instruction were clear and content was well organized	The presenter and the ppt handouts were useful and exposed me to new knowledge	Overall rating of the Workshop	Participant Name	College Name	Department
12/14/2021 12:30:04	ibondin@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Burhanista Hart	St. Edmund's College	Zoology
12/14/2021 12:31:12	norgelinasosa@gmail.com	Agree	Strongly Agree	Strongly Agree	Very Good	Susan Norgiel	St. Edmund's College	Zoology
12/14/2021 12:31:42	safinisaakmal@gmail.com	Agree	Strongly Agree	Strongly Agree	Excellent	Galviana Saima	St. Edmund's College	Zoology
12/14/2021 13:18:39	cyntiahera@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Cynthia Rika Lyngdon Mak	St. Anthony's College	Biotechnology
12/14/2021 13:48:04	wandashahakurong@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Wandashahakurong	St. Edmund's College	Biotechnology
12/14/2021 13:48:19	barylakson@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	DESHADAPA BANYU	St. Edmund's College	Biotechnology
12/14/2021 13:48:35	dilthyaboo@gmail.com	Agree	Strongly Agree	Strongly Agree	Excellent	Diksha Borgohan	St. Anthony's College	Biotechnology
12/14/2021 13:51:02	bakelhamal@gmail.com	Agree	Strongly Agree	Strongly Agree	Very Good	BAKETSHAH KHARIM	St. Edmund's College	Biotechnology
12/14/2021 15:15:50	snohasakul@gmail.com	Agree	Strongly Agree	Strongly Agree	Excellent	SFACHA SAKUA	St. Anthony's College	Biotechnology
12/14/2021 15:35:42	lyngdonmak@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Good	Riwanah Lyngdon Mak	St. Edmund's College	Environmental Sciences
12/14/2021 15:12:52	antikaamah36@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Antika Samah	St. Edmund's College	Environmental Sciences
12/14/2021 15:31:30	antikaakurong@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Antika Bakurong	St. Edmund's College	Environmental Sciences
12/14/2021 15:03:19	raneyapachau@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Larantilanga	St. Anthony's College	Biotechnology
12/14/2021 15:15:45	hadiyapachau@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Very Good	SUGANDA RASALY	St. Anthony's College	Biotechnology
12/14/2021 17:28:05	thirongzumhadi@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Thirongzumhadi	St. Anthony's College	Biotechnology
12/14/2021 2:20:49	nikawarong@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Diana Ingi Fathore	St. Anthony's College	Biotechnology
12/14/2021 22:24:47	progatz@gmail.com	Agree	Strongly Agree	Strongly Agree	Very Good	Monica Inongum	Lady Keane College	Biotechnology
12/15/2021 17:36:16	pryalum100@gmail.com	Agree	Strongly Agree	Strongly Agree	Excellent	Pryalum Lotongam	Lady Keane College	Biotechnology
12/17/2021 20:37:07	gopongne201@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Ragnie Gogi	St. Anthony's College	Biotechnology
12/17/2021 20:14:40	wakalibak@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Wakalibak	St. Anthony's College	Biotechnology
12/17/2021 15:42:16	ashalialyngdon@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Ashalia Lyngdon	Lady Keane College	Biotechnology
12/20/2021 11:36:52	demaphshah@gmail.com	Strongly Agree	Strongly Agree	Strongly Agree	Excellent	Demaphshah Rynjan	Lady Keane College	Biotechnology

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Report

Number of Participants: 28 UG students from Department of Environmental Science, St. Edmunds; Department of Biochemistry, St. Anthony's College; Department of Biotechnology, St. Anthony's College; Department of Biochemistry, Lady Keane College; Department of Zoology, St. Edmund's College. The application received was overwhelming but only 28 participants were accepted giving priority to Fifth Semester students.

Registration: Free (Including Refreshment and Lunch)

Resource Persons: Dr. Omarlin Kyndiah, Dr. H. S. Ranhotra, Dr. James Wahlang, Dr. B. Kharwanlang and Dr. Purna Chettri.

Student as Demonstrators: The Fifth Semester students which include Nishan V. D. D. Chagas E Silva, Kuldeep Mishra, Rani Kumari, Priyanka Paul and Ibankdup Nongbet.

Techniques covered during the training: Salt Cut/Fractionation, Column chromatography, SDS PAGE, Estimation of Proteins and calculations.

Outcome: Students were able to perform the hands on in for the techniques after demonstration by resource person along with the support of the student's demonstrators.