



FIND THE MUCH AWAITED INTERNSHIP

SIP-2024

SUMMER INTERNSHIP IN PROTEOMICS (SIP)
1, 2 OR 3 MONTHS INTERNSHIP OPPORTUNITY

BATCH-I, 01 MAY 2024

BATCH-II, 01 JUN 2024



CONDUCTED BY –
PROTEOMICA INTERNATIONAL PRIVATE LIMITED
AN IIT BOMBAY SPIN-OFF COMPANY, INCUBATED AT SINE

 **HYBRID MODE**
Email: proteomicasine@gmail.com

Imagine roller coaster rides that twist and turn along the DNA helix model, splashing into a refreshing protein pool, creating a mist of big data clouds. Welcome to the Summer Internship in Proteomics (SIP), where the thrill of discovery meets the excitement of scientific exploration!

Registration OPEN: <https://form.jotform.com/240910631999060>

For more info join WhatsApp group: <https://chat.whatsapp.com/Ddg8K92gjNZGPIHoet5dq>

● EXPLORE THE WORLD OF
PROTEOMICS, MULTI-OMICS &
BIG DATA SCIENCES!

SIP-2024



LEVEL-1
BASIC

LEVEL-2
ADVANCED

LEVEL-3
PROFESSIONAL

Months	Batch-I	Batch-II
May-24	Level-1-Basic	N/A
Jun-24	Level-2-Advanced	Level-1-Basic
Jul-24	Level-3-Professional	Level-3-Professional

Are you ready to dive into the exciting world of proteomics this summer? Look no further! Summer Internship in Proteomics (SIP) offers an immersive experience designed to enhance your skills and knowledge in this cutting-edge field.



Join us for an immersive and convenient learning experience in proteomics.

Objective: Offering comprehensive proteomics training conveniently at your home, minimizing the need for travel and difficulty in finding accommodations in Mumbai.

Approach: Attend proteomics training sessions from the comfort of your home, while enjoying your leisure time with a sip (summer internship in proteomics).

Key Highlights:

- **Fundamental Learning:** Lectures and experimental demonstrations to strengthen core knowledge.
- **Daily Instructional Videos:** Contents provided daily for enhanced learning.
- **Structured Syllabus:** Mon to Fri curriculum with daily content releases.
- **Live Q&A Sessions:** Weekly live sessions to address participant queries and concerns.
- **Progress Monitoring:** Weekly assignments and quizzes to track learning progress.
- **Offline Lab Visit:** Participants scoring >75% will be eligible for a short lab training eligible for an end-of-month offline lab visit.

Level-1: Basic Proteomics

4/8

Empowering Basic Proteomics from Home



Date	Day	Schedule	Contents	Marks (Assign)	Marks (Quiz)
01-May-24	Wed	D1	Basics of Proteomics		
02-May-24	Thu	D2	Sample preparation		
03-May-24	Fri	D3	Gel-based Proteomics		
04-May-24	Sat	Live Session	Assignment-1; Writing // Quiz-1	10	10
05-May-24	Sun		Week-2 Overview		
06-May-24	Mon	D4	Gel-based Quantitative Proteomics		
07-May-24	Tue	D5	Basics of Mass Spectrometry		
08-May-24	Wed	D6	MS data analysis-I-Mascot		
09-May-24	Thu	D7	MS data analysis-II-MaxQuant		
10-May-24	Fri	D8	MS data analysis-III-FragPipe		
11-May-24	Sat	Live Session	Assignment-2; Data Analysis // Quiz-2	20	10
12-May-24	Sun		Week-3 Overview		
13-May-24	Mon	D9	MS data analysis-IV-MetaboAnalyst		
14-May-24	Tue	D10	Clinical Proteomics		
15-May-24	Wed	D11	MS-based Quantitative Proteomics-I		
16-May-24	Thu	D12	MS-based Quantitative Proteomics-II		
17-May-24	Fri	D13	Pathway & Network analysis - Reactome		
18-May-24	Sat	Live Session	Assignment-3; Data Analysis // Quiz-3	20	10
19-May-24	Sun		Week-4 Overview		
20-May-24	Mon	D14	Targeted Proteomics-I		
21-May-24	Tue	D15	Targeted Proteomics-II		
22-May-24	Wed	D16	Protein microarrays-I		
23-May-24	Thu	BUDDHA PURNIMA			
24-May-24	Fri	D17	Protein microarrays-II		
25-May-24	Sat	Live Session	Assignment-4; Data Analysis // Quiz-4	10	10
26-May-24	Sun		Week-5 Overview		
27-May-24	Mon	D18	Label-free proteomics		
28-May-24	Tue	D19	Metabolomics		
29-May-24	Wed	D20	OMICS revolutions		
30-May-24	Thu	OFFLINE	* Free for students >75 %		
31-May-24	Fri	Live Session	Viva-voce		

Level-2: Advanced Proteomics

5/8



Savor Learning, Sip by Sip

Date	Day	Schedule	Contents	Marks (Assign)	Marks (Quiz)
01-Jun-24	Sat		Welcome		
02-Jun-24	Sun		Week-6 Overview		
03-Jun-24	Mon	D1	Recent innovations in proteomics		
04-Jun-24	Tue	D2	MS-based innovations		
05-Jun-24	Wed	D3	Non-MS-based innovations		
06-Jun-24	Thu	D4	Sample preparation (innovative methods)		
07-Jun-24	Fri	D5	MS data and Network analysis - Metascape		
08-Jun-24	Sat	Live Session	Assignment-5 // Quiz-5	10	10
09-Jun-24	Sun		Week-7 Overview		
10-Jun-24	Mon	D6	Targeted Proteomics		
11-Jun-24	Tue	D7	Advanced Quantitative Proteomics: Absol Quant		
12-Jun-24	Wed	D8	Advanced Quantitative Proteomics: DIA		
13-Jun-24	Thu	D9	Single Cell Proteomics		
14-Jun-24	Fri	D10	Single Cell Proteomics-II		
15-Jun-24	Sat	Live Session	Assignment-6 // Quiz-6	20	10
16-Jun-24	Sun		Week-8 Overview		
17-Jun-24	Mon	D11	Single Cell Proteomics-III		
18-Jun-24	Tue	D12	Cell Surface Proteomics-I		
19-Jun-24	Wed	D13	Cell Surface Proteomics-II		
20-Jun-24	Thu	D14	Cell Surface Proteomics-III		
21-Jun-24	Fri	Live Session	Assignment-7 // Quiz-7	20	10
22-Jun-24	Sat	OFFLINE	* Free for students >75 %		
23-Jun-24	Sun		Week-9 Overview		
24-Jun-24	Mon	D15	Introduction to big data and AI/ML		
25-Jun-24	Tue	D16	Orange for ML data analysis		
26-Jun-24	Wed	D17	Biological network analysis		
27-Jun-24	Thu	D18	BrainProt		
28-Jun-24	Fri	D19	Data plotting		
29-Jun-24	Sat	Live Session	Assignment-8 // Quiz-8	10	10
30-Jun-24	Sun				

Level-3: Professional - Proteomics Project

6/8

*From Sipping to Scholarly Success -
Project to Publication*

Date	Day	Schedule	Contents
01-Jul-24	Mon	D1	Research Projects Assign to Interns
02-Jul-24	Tue	D2	Literature Review
03-Jul-24	Wed	D3	Literature Review
04-Jul-24	Thu	D4	Literature Review
05-Jul-24	Fri	D5	Literature Review
06-Jul-24	Sat	Live Session	Review of progress
07-Jul-24	Sun		
08-Jul-24	Mon	D6	Project data curation
09-Jul-24	Tue	D7	Project data curation
10-Jul-24	Wed	D8	Project data analysis
11-Jul-24	Thu	D9	Project data analysis
12-Jul-24	Fri	D10	Project data analysis
13-Jul-24	Sat	Live Session	Review of progress
14-Jul-24	Sun		
15-Jul-24	Mon	D11	Data Plotting - Stats/PCA
16-Jul-24	Tue	D12	Data Visualisation - Heat maps, Volcano
17-Jul-24	Wed		Muharm
18-Jul-24	Thu	D13	Data Visualisation - pathways
19-Jul-24	Fri	D14	Data Visualisation - networks
20-Jul-24	Sat	Live Session	Review of progress
21-Jul-24	Sun		
22-Jul-24	Mon	D15	Manuscript Writing tips
23-Jul-24	Tue	D16	Figures preparation
24-Jul-24	Wed	D17	Figures preparation
25-Jul-24	Thu	D18	Results & Discussion
26-Jul-24	Fri	D19	Results & Discussion
27-Jul-24	Sat	Live Session	Review of progress
28-Jul-24	Sun		
29-Jul-24	Mon	D20	M & M; Introduction write-up
30-Jul-24	Tue	D21	Abstract & Referencing
31-Jul-24	Wed	D22	Report submission // End of SIP

Registration OPEN for Levels #1,2,3

7/8



	Basic	Advanced	Professional				
Levels	#1	#2	#3	#1+2	#1+3	#2+3	#1+2+3
Fees (INR)	10000	10000	10000	15000	16000	17000	20000

- Registrations have been maintained at a nominal and flexible level to accommodate your needs.
- We highly recommend a three-month internship to gain comprehensive experience in proteomics, covering basic, advanced, and professional levels. However, if your academic schedule or other constraints require it, you may opt for one or more levels as outlined in the table.

The Race Begins!



Join SIP-2024:
Register Now and Start Racing Towards Success!

Registration form:
<https://form.jotform.com/240910631999060>

Join WhatsApp group for more info:
<https://chat.whatsapp.com/Ddg8K92gjNZGPIFHoet5dq>

Contact: proteomicasine@gmail.com