



AY: 2023-2024

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SAPTHAGIRI COLLEGE OF ENGINEERING
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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057
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Department of Biotechnology (October- 2023)

*Type of event/activity	Seminar (<i>Alumini Talk</i>)
Name/Title of the Activity/Event	Innovation and Design Thinking
Date of Organization	26th October 2023
Venue	Seminar hall
Resource Person	Mr Nisar Ahmed Makerspace Trainer At ComedKare Bangalore
Objectives of the event/activity	Define whole-genome sequencing Understand the brief history of Sanger sequencing and its current use Explain the difference between whole-genome sequencing, whole exome sequencing and hot spot panels and identify the best option for clinical application Understand the relationship between sequencing coverage and depth Identify the strengths and limitations of next-generation sequencing platforms Understand the importance and role of the bioinformatics
Participants	BT Students (50)
Organized By	Dr Soumya C Assistant Professor, Biotechnology Department


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Sapthagiri College of Engineering
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Bengaluru - 560 057

Event Description:



AY: 2023-2024

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Department of Biotechnology (October- 2023)

Talk was conducted with title of "Innovation and Design Thinking." The theme is set to highlight on

- To recognize the latest and future issues and challenges in innovation.
- To expose the student with state of the art perspectives, ideas, concepts, and solutions related to the design and execution of innovation driven projects using design thinking principles.
- To develop an advance innovation and growth mindset form of problem identification and reframing, foresight, hindsight and insight generation. For all the Students of Department of Biotechnology, Sapthagiri College of Engineering, Bangalore on 26th October 2023.

Brochure:

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DEPARTMENT OF BIOTECHNOLOGY
 The Institute of Engineers (India) Student Chapter

ALUMNI TALK ON
INNOVATION AND DESIGN THINKING

By
Mr Nisar Ahmed
Makerspace Trainer
At ComedKare Bangalore

Shri. G Dayanand
Chirman ,SCE

Dr.Chaitra B S
IEI Convener

Dr Soumya C
Seminar Coordinator

Shri. G D Manoj
Managing Director ,SCE

Dr. Veena S More
HOD,BT

Dr.H Ramakrishna
Principal

Images of the Event:

Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 560 057

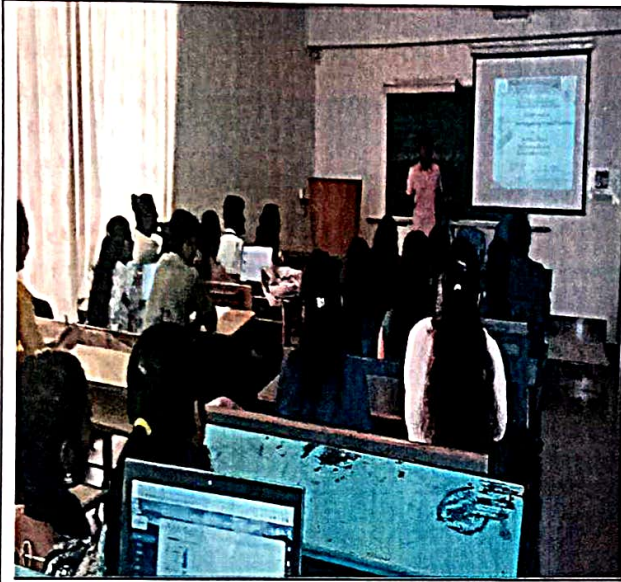
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Department of Biotechnology (October- 2023)



Photos during the Alumni talk

Note:

(i) At the end map PO's (with 3/2/1):

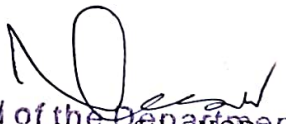
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2	3	3	2	-	3	2	3	-	-	1	1

***Type of activity:** Workshop/seminar/conference/hackathon/hobby project/mini project/ Invited Talk/Guest Lecture/ Skill enhancement program/Cultural activity/competitions etc.,

Date of Submission: 28/10/2023


 Co-ordinators Signature


 Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
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 Head of the Department
 Dept. of Bio - Technology
 Sapthagiri College of Engineering
 No. 57/1, Chikkasandra
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Department of Biotechnology (October- 2023)

*Type of event/activity	Seminar
Name/Title of the Activity/Event	NGS and its Application
Date of Organization	30th October 2023
Venue	Seminar hall
Resource Person	Dr Vishwanathan Senior Scientific Officer Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore
Objectives of the event/activity	Define whole-genome sequencing Understand the brief history of Sanger sequencing and its current use Explain the difference between whole-genome sequencing, whole exome sequencing and hot spot panels and identify the best option for clinical application Understand the relationship between sequencing coverage and depth Identify the strengths and limitations of next-generation sequencing platforms Understand the importance and role of the bioinformatics
Participants	BT Students
Organized By	Dr Soumya C Assistant Professor, Biotechnology Department


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Event Description:


Talk was conducted with title of "NGS and its Application." The theme is set to highlight on

- Novel DNA sequencing techniques, referred to as "next-generation" sequencing (NGS), provide high speed and throughput that can produce an enormous volume of sequences with many possible applications in research and diagnostic settings. In this article, we provide an overview of the many applications of NGS in diagnostic virology
- To develop an advance innovation and growth mindset form of problem identification For all the Students of

Brochure



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DEPARTMENT OF BIOTECHNOLOGY
The Institute of Engineers (India) Student Chapter

A TALK ON
NGS AND ITS APPLICATION

By
Dr Vishwanathan
Senior Scientific Officer
Mediomix Diagnosis and Bioresearch Pvt Ltd.
Bangalore

Shri. G Dayanand
Chairman, SCE

Shri. G D Manoj
Managing Director, SCE

Dr. Chaitra B S
IEI Convener

Dr Soumya C
Seminar Coordinator

Dr. Veena S More
HOD, BT

Dr. H Ramakrishna
Principal



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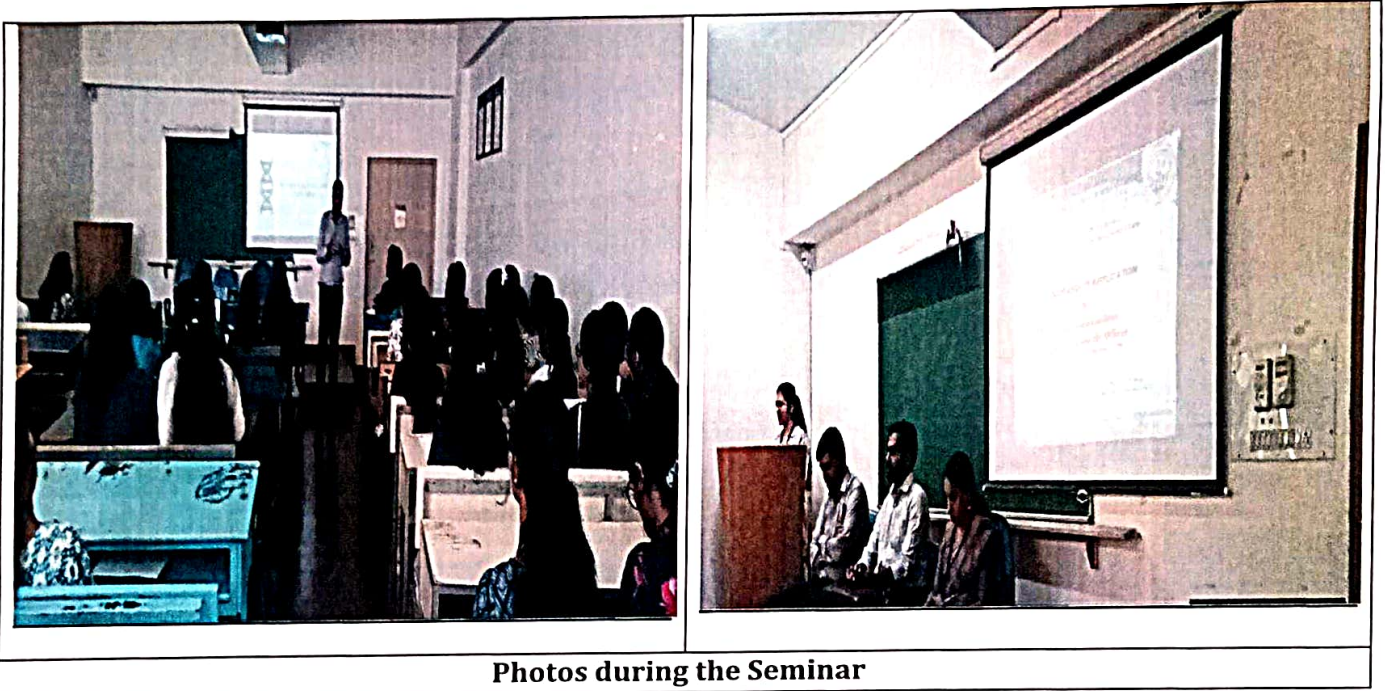


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Department of Biotechnology (October- 2023)

Images:



Photos during the Seminar

Note: (i) At the end map PO's (with 3/2/1):

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2	3	3	2	-	3	2	3			1	1

***Type of activity:** Workshop/seminar/conference/hackathon/hobby project/mini project/
 Invited Talk/Guest Lecture/ Skill enhancement program/Cultural activity/competitions etc.,

Coordinator:

Dr. Soumya C

Signature of the HOD

Head of the Department
 Dept. of Bio-Technology
Dr. Veena S More
 Sapthagiri College of Engineering
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Department of Biotechnology (November- 2023)

Type of event/activity	Alumni Talk
Name/Title of the Activity/Event	Talk on regulatory affairs in biotechnology industries
Date of Organization	25/11/2023
Venue (with address)	Sapthagiri college of engineering, Bangalore
Resource Person	Ms. Vamshipriya, Trainee, R&D Dept, Regulatory affairs, Novozymes, Bangalore
Organized by	Department of Biotechnology Faculty Co-ordinators: Prof. Rajalaxmi.S
Objectives of the event/activity	<ul style="list-style-type: none"> Brief introduction about the company Novozymes Importance of regulatory affairs in Biotechnology industry Role of different departments in Novozyme
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	<ul style="list-style-type: none"> 35 participants
Mention organized /participated/attended	<ul style="list-style-type: none"> Organized

Event Description:

Department of BT had organized an alumni talk which, was given by Ms. Vamshipriya (Trainee, R&D Dept, Regulatory affairs, Novozymes, Bangalore) who is a 2018-2022 batch student of Biotechnology department, Sapthagiri College of Engineering, Bangalore. The talk was organized by Prof Rajalaxmi, Department of Biotechnology, Sapthagiri College of Engineering, Bangalore. The students were given a brief idea about the regulatory affairs department at Novozymes. Novozymes ensures that all products are developed, maintained and documented in compliance with current international and national regulatory requirements.


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DEPARTMENT OF BIOTECHNOLOGY

The Institute of Engineers (India) Student Chapter

ALUMNI TALK ON

REGULATORY AFFAIRS IN BIOTECHNOLOGY INDUSTRIES

By

Ms. N Vamshipriya

Trainee, R&D Dept, Regulatory Affairs,
Novozymes South Asia
Bangalore



25/11/2023,
Saturday
11:00 AM

Dr. Chaitra B S
IEI Convener

Dr. Soumya C
Alumni Convener

Shri. G Dayanand
Chirman ,SCE

Shri. G D Manoj
Managing Director ,SCE

Sanjana S (7th Sem)
Student Coordinator


Prof Rajalaxmi.S
Faculty Coordinator

Dr. Veena S More
HOD,BT


Dr.H Ramakrishna
Principal

The company works with thousands of experts draw on the enzymes, fermented proteins and microorganisms In their search for insights-based biosolutions, they harness cutting-edge technologies such as gene-reading and handling, strain constructions and high-throughput screening. Ms Vamshipriya had explained in brief to the students about the availability of both wet lab as well dry lab job opportunities at Novozymes. It was an interactive and insightful session for the students.

Images:



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DEPARTMENT OF BIOTECHNOLOGY
The Institute of Engineers (India) Student Chapter

ALUMNI TALK ON
REGULATORY AFFAIRS IN
BIOTECHNOLOGY INDUSTRIES

By
Ms. N Vamshipriya
Trainee, R&D Dept, Regulatory Affairs,
Novozymes South Asia
Bangalore



25/11/2023,
Saturday
11:00 AM

Dr. Chaitra B S **Dr. Soumya C** **Shri. G Dayanand** **Shri. G D Manoj**
IEI Convener **Alumni Convener** **Chirman ,SCE** **Managing Director ,SCE**

Sanjana S (7th Sem) **Prof Rajalaxmi.S** **Dr. Veena S More** **Dr.H Ramakrishna**
Student Coordinator **Faculty Coordinator** **HOD,BT** **Principal**

Brochure for Alumni Talk 2023



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Department of Biotechnology (November- 2023)



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2	3	3	2	2	3	3	3	2	1	3	1

Faculty Co-ordinator:

Prof. Rajalaxmi S

Rajalaxmi S

Date of Submission: 27-11-2023

[Signature]
 Principal
 Sapthagiri College of Engineering
 14/5, Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 560 057

[Signature]
 Head of the Department
 Dept. of Bio - technology
 Sapthagiri College of Engineering
 No. 57/1, Chikkasandra
 Hesaraghatta Main Road
 Bangalore -57

STUDENTS ATTENDANCE LIST

Title : ALUMNI TALK

Sem : 5th and 7th

SL.NO	USN	STUDENTS NAME	STUDENTS SIGNATURE
1	1SG21BT038	SRINIVASAN R	Srinivasan R
2	1SG21BT004	ANJANA. G	Anjana G
3	1SG21BT020	LAKSHMI GADAGIN	Lakshmi G
4	1SG21BT037	Sindhu V.M	Sindhu V.M
5	1SG21BT022	G. Pallavi	G. Pallavi
6	1SG21BT017	Kavana K.O.	Kavana K.O.
7	1SG21BT032	Sanjara. L	Sanjara L
8	1SG21BT035	Sheenidhi. V	Sheenidhi V
9	1SG21BT003	Akshitha. S	Akshitha S
10.	1SG21BT001	Aishwarya Komte	Aishwarya Komte
11.	1SG21BT016	Tanavi. R	Tanavi R
12.	1SG21BT024	Nandan. R Bagade	Nandan R Bagade
13.	1SG21BT014	Hemanth Kumar. D.	Hemanth Kumar D.
14	1SG21BT009	DARSHAN. P	Darshan P
15	1SG20BT006	AMOGH AVARSHA. G	Amogh Avarsha G
16	1SG20BT047	S N Megha Mouya Nand	S N Megha Mouya Nand
17	1SG20BT002	Abdul Samad. H	Abdul Samad H
18	1SG20BT005	Amina Jatheen	Amina Jatheen
19	1SG20BT009	Asfa Sultana	Asfa Sultana
20	1SG20BT055	Sowathi Bhagadekar	Sowathi Bhagadekar
21	1SG20BT004	Alice Jennifer	Alice Jennifer
22	1SG20BT019	Dharani. G	Dharani G
23	1SG20BT041	Priyanka. V	Priyanka V
24	1SG20BT031	Nashita. K	Nashita K
25	1SG20BT050	Savitka. M	Savitka M
26	1SG20BT051	Sharon Ray	Sharon Ray
27	1SG20BT015	Deekshitha. M	Deekshitha M
28	1SG20BT049	Sanjana. S.S	Sanjana S.S
29	1SG20BT042	Raksha K	Raksha K
30	1SG20BT054	Sushma S	Sushma S
31	1SG20BT056	Tanukumar C	Tanukumar C

Rajalaxmi S
Program Coordinator



AY: 2023-2024


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Department of Biotechnology (December- 2023)

*Type of event/activity	Certificate Course
Name/Title of the Activity/Event	R Programming for Biotechnologists
Date of Organization	18 th December 2023 to 22 December 2023
Venue	Computer lab
Resource Person	Dr Vishwanathan Senior Scientific Officer, Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore Ms. Padhmeni Priya Mediomix Diagnosis and Bioresearch Pvt, Ltd. Bangalore Ms. Shilpa Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore Ms. Pooja Singh Quality Data Operations and Management, Genisys Group
Objectives of the event/activity	The objective of this module to make students exercise the fundamentals of statistical analysis in R environment. They would be able to analysis data for the purpose of exploration using Descriptive and Inferential Statistics. Students will understand Probability and Sampling Distributions and learn the creative application of Linear Regression in multivariate context for predictive purpose
Participants	BT Students
Organized By	Dr Soumya C Assistant Professor, Biotechnology Department

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Department of Biotechnology (December- 2023)

Event Description:

Course was conducted with title of "R Programming for Biotechnologists." The following module comprises of R programming basics and application of several Statistical Techniques using it. The module aims to provide exposure in terms of Statistical Analysis, Hypothesis Testing, Regression and Correlation using R programming language. To develop an advance innovation and growth mindset form of problem identification For all the Students of Department of Biotechnology, Sapthagiri College of Engineering, Bangalore on 18th December 2023 to 22 December 2023.

Brochure:

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DEPARTMENT OF BIOTECHNOLOGY
 The Institute of Engineers (India) Student Chapter

FIVE DAYS CERTIFICATE COURSE ON
R PROGRAMMING
 By

Dr Vishwanathan, Senior Scientific Officer
Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore
Ms. Padhmeni Priya
Mediomix Diagnosis and Bioresearch Pvt. Ltd. Bangalore
Ms. Shilpa
Mediomix Diagnosis and Bioresearch Pvt Ltd. Bangalore
Ms. Pooja Singh
Quality Data Operations and Management, Genisys Group
Shri. G Dayanand
Chairman, SCE
Shri. G D Manoj
Managing Director, SCE

Dr. Chaitra B S
IEI Convener
Dr Soumya C
Faculty Coordinator
Dr. Veena S More
HOD, BT
Dr. H Ramakrishna
Principal

Principal

Sapthagiri College of Engineering
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Images of the event:





Note:

(i) At the end map PO's (with 3/2/1):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2	3	3	2	-	3	2	3			1	1

***Type of activity:**

Workshop/seminar/conference/hackathon/hobby project/mini project/ Invited Talk/Guest Lecture/
Skill enhancement program/Cultural activity/competitions etc.,

Coordinator:



Head of the Department
Signature of the HOD

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No. 57/1, Chikkasandra
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Bangalore -57

Date of Submission: 25-12-2023



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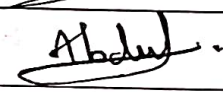

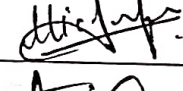
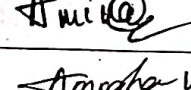
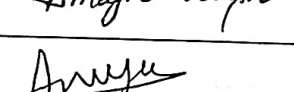
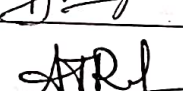
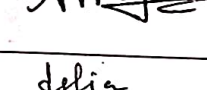
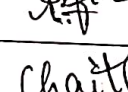
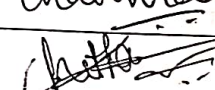
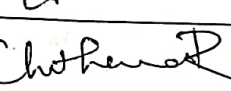
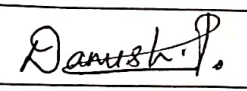
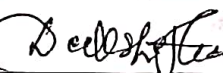
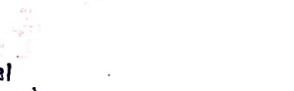
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Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797


Department of Biotechnology

Five Days Certification Course on "R Programming for Biotechnologists"

From 18/12/23 to 22/12/23

Student List

Sl No.	USN	Student Name	Signature
1	1SG20BT001	AASTHA ROY	
2	1SG20BT002	ABDULSAMAD	
3	1SG20BT003	AISHWARYA B.L	
4	1SG20BT004	ALICE JENNIFER	
5	1SG20BT005	AMINA FARHEEN	
6	1SG20BT006	AMOGHA VARSHA	
7	1SG20BT007	ANANYA B.S	
8	1SG20BT008	ANNAPAREDDY TRINAYANIREDDY	
9	1SG20BT009	ASFIA SUTANA	
10	1SG20BT011	CHAITHRA SHREE A	
11	1SG20BT012	CHETAN KAGINELLI	
12	1SG20BT013	CHETHANA R	
13	1SG20BT014	DANUSH P	
14	1SG20BT015	DEEKSHITHA M	


Principal
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Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Biotechnology

15	1SG20BT016	DEEPIKA PRAKASH	<i>Deepika</i>
16	1SG20BT018	DHANUSH HALLIKAR S	<i>Dhanush</i>
17	1SG20BT019	DHARANI G	<i>Dharani</i>
18	1SG20BT020	DIVYA K N	<i>Divya</i>
19	1SG20BT021	G L NIKHIL KUMAR REDDY	<i>Nikhil</i>
20	1SG20BT022	GANAVI N	<i>GANAVI</i>
21	1SG20BT023	GAYATHRI S	<i>Gayathri</i>
22	1SG20BT024	HARSHITHA REDDY G	<i>Harshitha</i>
23	1SG20BT025	J JOYLYNN GRACE	<i>J. Joylynn</i>
24	1SG20BT027	K NARAHARI	<i>Narahari</i>
25	1SG20BT029	KHUSHI BHAVANI K SINGH	<i>Kushi</i>
26	1SG20BT030	KRUTHI J	<i>Kruthi J</i>
27	1SG20BT031	NAMITA KRISHNAKUMAR	<i>Namita</i>
28	1SG20BT033	NESARA M	<i>Nesara</i>
29	1SG20BT034	NIRANJAN M	<i>Nirajan</i>
30	1SG20BT035	NISCHITHA K S	<i>Nischitha</i>
31	1SG20BT036	NITHEESH S	<i>Nitheesh</i>
32	1SG20BT037	P SWATHI	<i>Swathi</i>

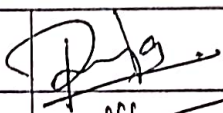
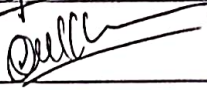

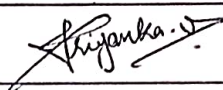
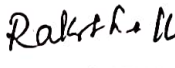
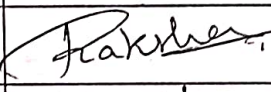
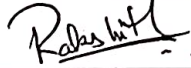
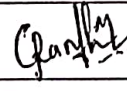
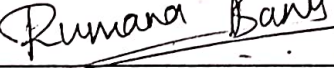

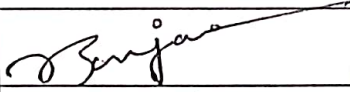
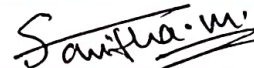
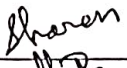
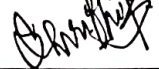

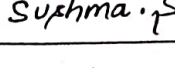

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Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Biotechnology

33	1SG20BT038	POOJA M	
34	1SG20BT039	PRATHIKSHA GS	
35	1SG20BT040	PRAVALIKA KV	
36	1SG20BT041	PRIYANKA V	
37	1SG20BT042	RAKSHA K	
38	1SG20BT043	RAKSHA S	
39	1SG20BT044	RAKSHITH R	
40	1SG20BT045	RANJITHA C M	
41	1SG20BT046	RUMANA BANU	
42	1SG20BT047	S N MEGHA MOURYA NANDAN	
43	1SG20BT049	SANJANA S S	
44	1SG20BT050	SAVITHA M	
45	1SG20BT051	SHARON RAJ	
46	1SG20BT052	SMRITHI B	
47	1SG20BT053	SUDI KSHA K KUMAR	
48	1SG20BT054	SUSHMA S	
49	1SG20BT055	SWATHI BHARADWAJ R	


Principal

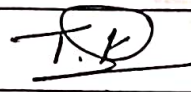
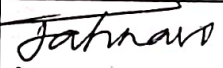
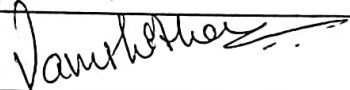

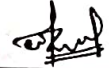
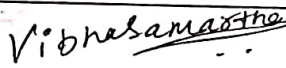

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Department of Biotechnology

50	1SG20BT056	TANU KUMAR C	
51	1SG20BT057	UPPUTURI JAHNAVI	
52	1SG20BT058	VAMSHITHA R SHETTY	
53	1SG20BT059	VARSHITHA N R	
54	1SG20BT060	VARUN S	
55	1SG20BT061	VIBHA SAMARTHA	
56	1SG20BT010	BHOOMIKA . B.V .	


COORDINATOR


HOD, BT
Head of the Department
Dept. of Bio - Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore - 57


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



AY: 2023-2024

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Department of Biotechnology (FEBRUARY- 2024)

*Type of event/activity	Workshop
Name/Title of theActivity/Event	"Biomedical Instrumentation"
Date of Organization	8 th February 2024 to 10 th February 2024
Venue	SIMS RC, Bengaluru-57
Resource Person	Dr Hemavathi HOD ,Dept Of Microbiology, SIMS RC, Bengaluru. Dr Shubha, Dept of Anatomy, SIMS RC, Bengaluru. Dr Aswathi , Dept of Anatomy, SIMS RC, Bengaluru. Dr Kalaivanam K N, HOD ,Dept Of Biochemistry,SIMS RC, Bengaluru. Ms Lakshmi Nivedya Sree Tutor,Dept of Biochemistry,SIMS RC,Bengaluru.
Objectives of the event/activity	<ul style="list-style-type: none">• To study Dark Field Microscope and Fluorescence MicroscopeTo Study Organ Systems.• To study various instruments used for biochemical analysis.
Participants	BT Students (80)
Organized By	Dr. Gouri Mirji, Dr. Chaitra B S and Dr. Kirankumar B Dept of Biotechnology, SCE, Bengaluru-57

Event Description:

The Department of Biotechnology organized 3 days Workshop on "Biomedical Instrumentation" for 4th and 6th semester students organised at Sapthagiri Institute of Medical Sciences (SIMS) Bengaluru, Karnataka from 8th to 10th February 2024. Students were able to understand working and application of various medical instruments used in clinical study and healthcare. Students were able to practically visualize the organs and study about their functions and also they visited the museum in the department of anatomy. A discussion was arranged at the end to clarify the doubts. The workshop was coordinated by Dr. Gouri Mirji, Dr. Chaitra B S and Dr. Kirankumar B, Assistant Professors, Dept of Biotechnology, SCE, Bengaluru-57



AY: 2023-2024

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Department of Biotechnology (FEBRUARY- 2024)

Event Description: (day wise):

Day 1 Department of Microbiology

The day started with a theory session on the topic of fluorescent microscope and dark field microscope: principle, features, dyes, samples used and the applications. Students were able to grasp the theory and replicated it in the practical session. The live samples of *Micobacterium tuberculosis* and *Trypanema paladium* were mounted on the slides and visualized in presents of light background and dark background. Students were able to visualize and characterize the mobility of microbial samples based on the disease.

Day 2 Department of Physiology and Anatomy

The day started with physiology and anatomy of human. Students were able to access the anatomy lab which had preserved specimens in formalin solution. They observed Bones and Bone Markings, Spinal Cord, Axial skeleton, Appendicular skeleton joints and Spinal Nerves, Brain and Cranial Nerves, Special Senses, Respiratory System, The Cardiovascular system, Digestive System, Urinary and Reproductive Systems, The Muscular (Axial and Appendicular) and Integumentary systems, students also viewed the results of X-ray and poster related to working of physiological organs of human system.

Day 3 Department of biochemistry and SIMS RC Hospital visit

The day started with the theory session contexted with principle of glucometer, photometry, spectrophotometry, flame photometry, Homogenizer, and chromatography techniques. The whole session was taken over by Dr. Akhila, Dr. Lakshmi Nivedya and Dr. Gowtham H.B Tutors of department of biochemistry, SIMS RC. Students visited biochemistry lab in SIMS RC and instrumentation of spectrophotometry was performed. The blood glucose level of one of the students was calculated using glucometer and result were interpreted practically students were taken to visit authorized labs containing integrated biochemistry analyzer VISTRON 5600, ABG analyzer(blood gases) which measures pO_2 , pCO_2 , bicarbonates and pH related to blood.



AY: 2023-2024

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Department of Biotechnology (FEBRUARY- 2024)



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Department of Biotechnology

WORKSHOP CO-ORDINATORS

Dr. Chama G
Assistant Professor, SCE

Dr. Gauri Mirji
Assistant Professor, SCE

Dr. Kiran Kumar B
Assistant Professor, SCE

Organising Workshop on

Biomedical Instrumentation

Date: 08/02/2024 to 10/02/2024

CHIEF PATRONS

Sri. Dayananda G
Chairman, SCE

Sri. G D Manoj
Managing Director,
SCE

Dr. Ramakrishna H
Principal

Dr. Veena S More
HOD

VENUE: SAPTHAGIRI INSTITUTE OF MEDICAL SCIENCES & RESEARCH CENTRE

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AY: 2023-2024

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Images of the Event:



E.coli Mobility under Fluorescent Microscopy

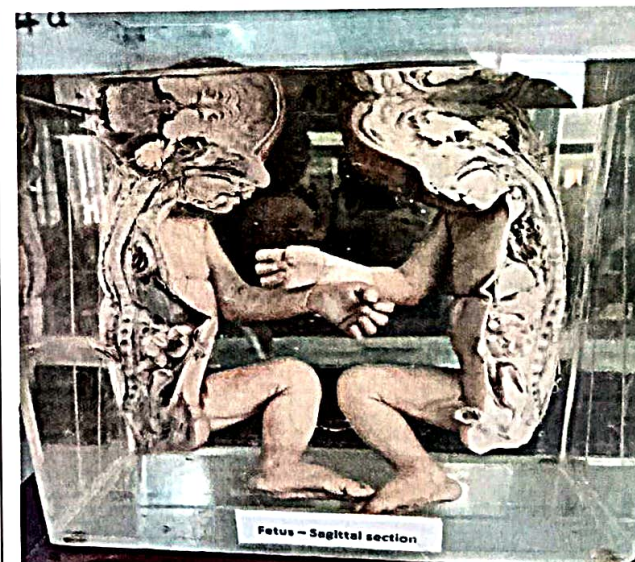
DAY -1 : DEPARTMENT OF MICROBIOLOGY



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DAY -2: PHYSIOLOGY AND ANATOMY DEPARTMENT



DAY -3: BIOCHEMISTRY DEPARTMENT AND SIMS HOSPITAL

Note: At the end map PO's (with 3/2/1):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	1	-	3	3	3	1	3	-	1	-	2

Faculty Co-ordinator:

Dr. Gouri Mirji; Dr. Chaitra B S and Dr. Kiran Kumar B
Assistant Professors, Dept of Biotechnology, SCE, Bengaluru-57

Date of Submission: 01-02-2024

Head of the Department
Dept. of Bio-Technology
Signature of the HOD
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore -57

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From:

07-02-2024

Head of the Department,
Dept. of Biotechnology,
Sapthagiri College of Engineering,
Bengaluru-560057.

To:

The Principal,
Sapthagiri Institute of Medical Science and Research center
Bengaluru-560090

Through,
The Principal,
Sapthagiri college of Engineering
Bengaluru-560057.

Sub: Permission to study various instruments at Sapthagiri Institute of Medical Science and Research center, from 08-02-2024 to 10-02-2024.

Respected Sir/Madam,

With respect to the above subject, kindly permit students to study various instruments at Department of Microbiology, Biochemistry and Anatomy at Sapthagiri Institute of Medical Science and Research center from 08-02-2024 to 10-02-2024. Kindly do the needful.

Thanking you,

No of students: 90

Faculty Incharge: 3

1. Dr. Gouri Mirji *Yy*
2. Dr. Chaitra B S *Chaitra*
3. Dr. Kiran Kumar B *K*

Yours faithfully,



(Dr. Veena S. More)

Head of the Department
Dept. of Bio - Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore - 57

Madam, for needful

B
2/2/24

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore - 560 057

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Department of Biotechnology

AY: 2023-2024
 ODD

*Type of event/activity	Skill development workshop
Name/Title of the Activity/Event	"Importance of Animal cell culture and it's role in research and industry"
Date of Organization	19 th Feb to 23 rd Feb, 2024
Venue (with address)	Department of Biotechnology (SCE)
Organized by	Co-ordinators: Dr. Chaitra B S and Prof Rajalaxmi.S
Objectives of the event/activity	<p>The main objective of ethics in research publications are:</p> <ul style="list-style-type: none"> • Day 1:- Cell culture techniques and explant from Zebrafish fin. • Day 2:- Thawing cells, seeding cells and Real time-Live Imaging using CytoSMART Lux2. • Day 3:- Observe seeded cells, Zebra fish primary cells observe and pre-prepared MSC differentiation to adipogenic lineage. • Day 4&5:- Maintenance of cells.
Participants (Please attach list of participants, if it is organized/conducted in the dept.))	42 participants
Mention organized /participated/attended	Organized

Event Description:

The Department of Biotechnology organized a Skill Development Workshop on "Animal cell culture and it's role in research and Industry" for five days from 19th Feb to 23rd Feb, 2024 and was conducted from 10:30 am to 4:00 pm in the Department of Biotechnology.

The resource person for the Skill development workshop session was Dr. Gokul Kesavan, Principal Scientist & Chief Proprietor, VERTEX Research and Education.



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Department of Biotechnology

AY: 2023-2024

ODD

The objectives of the workshop was to make the students to understand and provide ethical knowledge regarding:

1. The midbrain-hindbrain boundary (MHB) that acts as an organizer and controls the fate of neighboring cells to develop into either mesencephalic (midbrain) or metencephalic (hindbrain) cells by secreting signaling molecules like Wnt1 and Fgf8.
2. The zebrafish is an excellent vertebrate model for studying MHB development due to the ease of gene manipulation and the possibility of following cellular dynamics and morphogenetic processes using live imaging. Currently, only very few reporter and/or Cre-driver lines are available to study gene expression at the MHB, hampering the understanding of MHB development, and traditional transgenic technologies using promoter/enhancer fragments or bacterial artificial chromosome (BAC)-mediated transgenesis often do not faithfully recapitulate endogenous expression patterns.
3. In contrast, CRISPR/Cas9-mediated genome editing technology now provides a great opportunity to efficiently knock-in or knock-out genes. We have generated four CRISPR/Cas9-based knock-in fluorescent reporter lines for two crucial genes involved in MHB development, namely *otx2* and *pax2a*.
4. The coding sequences of the reporters were knocked-in upstream of the corresponding ATG and are, thus, under the control of the endogenous promoter/enhancer elements. Interestingly, this strategy does not disturb endogenous gene expression.
5. Using the fast maturing fluorescent protein reporter, Venus, enabled us to follow MHB development using cell tracking and live imaging. In addition, we show that these reporter lines label various neuronal and glial cell types in the adult zebrafish brain, making them highly suitable for investigating embryonic and adult midbrain, hindbrain, and MHB development.

The Hands on Workshop was an interactive session where students of Biotech department, SCE have participated, learnt and benefited with information related to the role of ethics in research publications. About 42 participants had participated in the session. It was an enlightening and fruitful event.

The session was inaugurated by a welcome speech by Ms. Vardhajith M. The Principal and HOD of BT department had addressed the students and was followed by a vote of thanks by Ms. Shrinidhi.



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DEPARTMENT OF BIOTECHNOLOGY

The Indian Institute of Engineers (IEI) student chapter &
Shristi BT forum

Organizing

Skill Development Program

for

BE Biotechnology students

HANDS ON TRAINING

*"Importance of Animal
cell culture and its role in
Research & Industry"*

CHIEF PATRONS

Sri. Dayananda G
Chairman, SCE

Sri. G D Manoj
Managing Director,
SCE

Dr. Ramakrishna H
Principal

Dr. Veena S More
HOD

Prof. Rajalaxmi S
IEI Convenor

PROGRAM CO-ORDINATORS

Dr. Chaitra B S
&
Prof. Rajalaxmi S

DURATION: 5 days

19th to 23rd

February 2024

Every participant will receive certificate at the end of workshop

B
19/2/24



AY: 2023-2024
ODD

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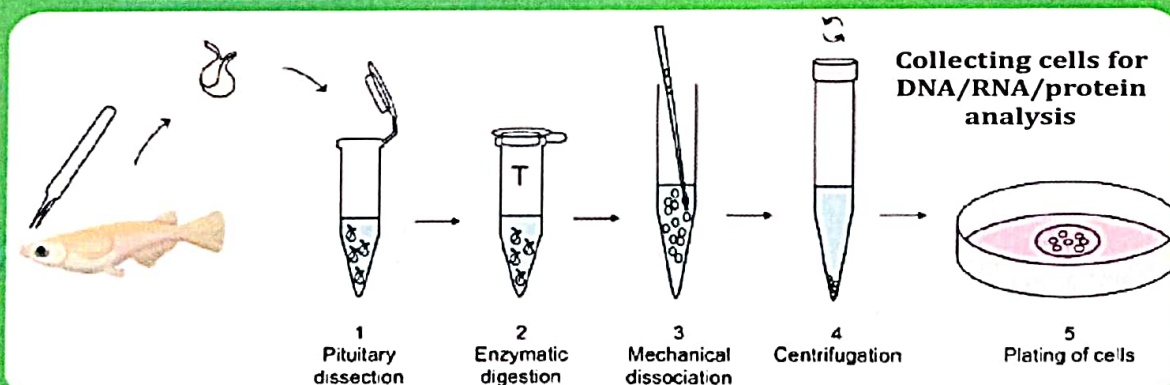
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Department of Biotechnology

Mini Project included:

*Primary cell culture from caudal fin explants of
Zebra Fish*



Resource person:

Dr. Gokul Kesavan
Principal Scientist & Chief Proprietor
VERTEX Research and Education



Workshop Coordinators:

Dr. Chaitra B S & Prof. Rajalaxmi S
Assistant Professors, Dept of
Biotechnology, SCE



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Images:



Fig 1: Inauguration of the workshop



Fig 2: Teaching session



Fig 4: Experiment demonstration



Fig 4: Hands on training



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AY: 2023-2024
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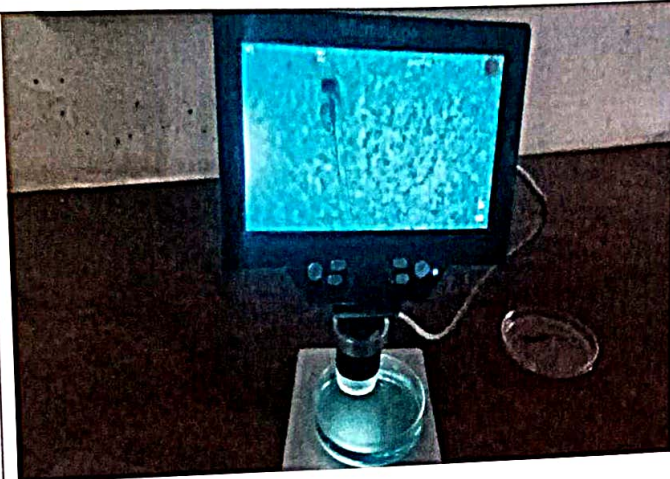


Fig 5: Real time-Live Imaging using CytoSMART Lux2.



Fig 6: Microscopic view of the zebrafish embryo



Fig 7: Group photo of the students working with Dr. Gokul



Fig 8: Q & A Session with students

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Fig 9: Valedictory Programme.



Fig 10: Principal Talk



Fig 11: Issue of Certificates to students



Fig 12: Students group photo along with Resource person

Note: At the end map PO's (with 3/2/1):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
3	3	2	3	3	1	-	3	2	3	-	2

Faculty Co-ordinators:

Dr. Chaitra B S
 Prof Rajalaxmi.S

Chaitra B S
Rajalaxmi.S

Date of Submission: 29/02/24

[Signature]

Head of the Department
 Dept. of Bio -Technology
 Sapthagiri College of Engineering
 No. 57/1, Chikkasandra
 Hesaraghatta Main Road,
 Bangalore -57



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Department of Biotechnology (May- 2024)

*Type of event/activity	Hands on Drug discovery and its pharmacological applications
Name/Title of the Activity/Event	Hands on Drug discovery and its pharmacological applications
Date of Organization	21-05-2024
Venue (with address)	Department of Biotechnology (SCE)
Organized by	Program Co-ordinator: Dr. Kiran Kumar B
Objectives of the event/activity	"Drug discovery" on 21-05-2024
Participants (Please attach list of participants, if it is organized/conducted in the dept.)	43 participants
Mention organized /participated/attended	Organized

Event Description:

The Department of Biotechnology organized a Debate Activity on 05.06.2024. This activity consisted of 43 students on the topics listed above. Each team presents their opening arguments and providing an overview of drug discovery and its pharmaceutical applications.

Importance of Computational drug discovery (CADD):

Computational drug discovery (CADD) as a potent and promising tool for quicker, less expensive, and more successful drug creation. Recent developments in computational drug discovery technologies, especially those for cancer treatments, have had a major and noticeable influence on the development of anti-cancer drugs and have yielded insightful information on the anti-cancer therapy sector. The two main categories of targeted medications are small molecules and macromolecules. Targets of these medications include kinases, proteins that control epigenetic processes, enzymes that repair DNA damage, and proteasomes, among many others. Small molecule anti-cancer therapies surely still face several difficulties, such as low response rates and drug resistance.

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Department of Biotechnology (May- 2024)

Students of the BT department participated in the event. The entire event was moderated by Dr. Kiran Kumar B. The event was evaluated by Dr Soumya C. Assistant Professor, Department of Biotechnology. The entire event was successfully carried with the student coordinators Ms. Vaidurya Keerthi and Mr. Manjesh Gowda N K, 5th sem.

Group Activities:

Experimental designing small molecules on drug discovery:

Aim and Objectives: The main aim of this research work is to **Designing and Evaluation of Novel Molecules as Inhibitors against AXL Kinase**

Objective I: Designing of seaweed secondary metabolites as AXL kinase inhibitors

Objective II: Designing of novel AXL-Kinase inhibitors using ligand-based pharmacophore screening and molecular dynamic simulation

Objective III: Designing of novel AXL-Kinase inhibitors using ligand-based pharmacophore screening and molecular dynamic simulation

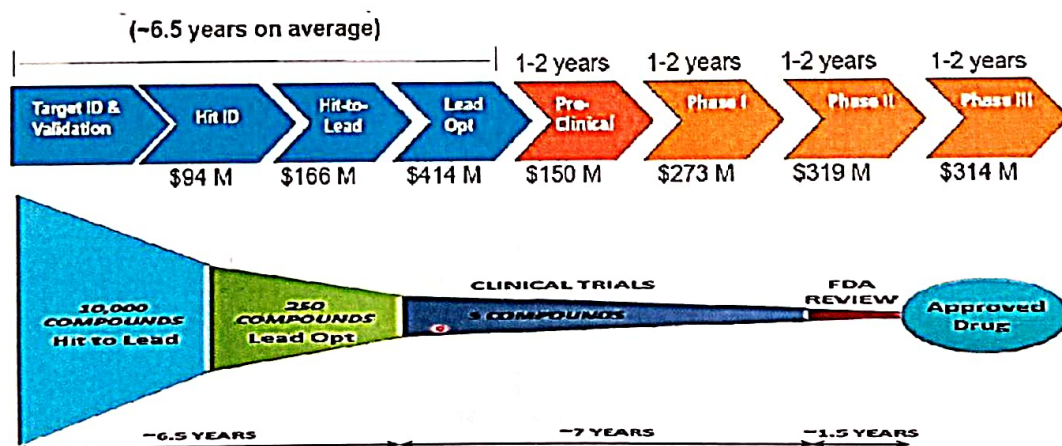


Figure1: Time line for Drug discovery

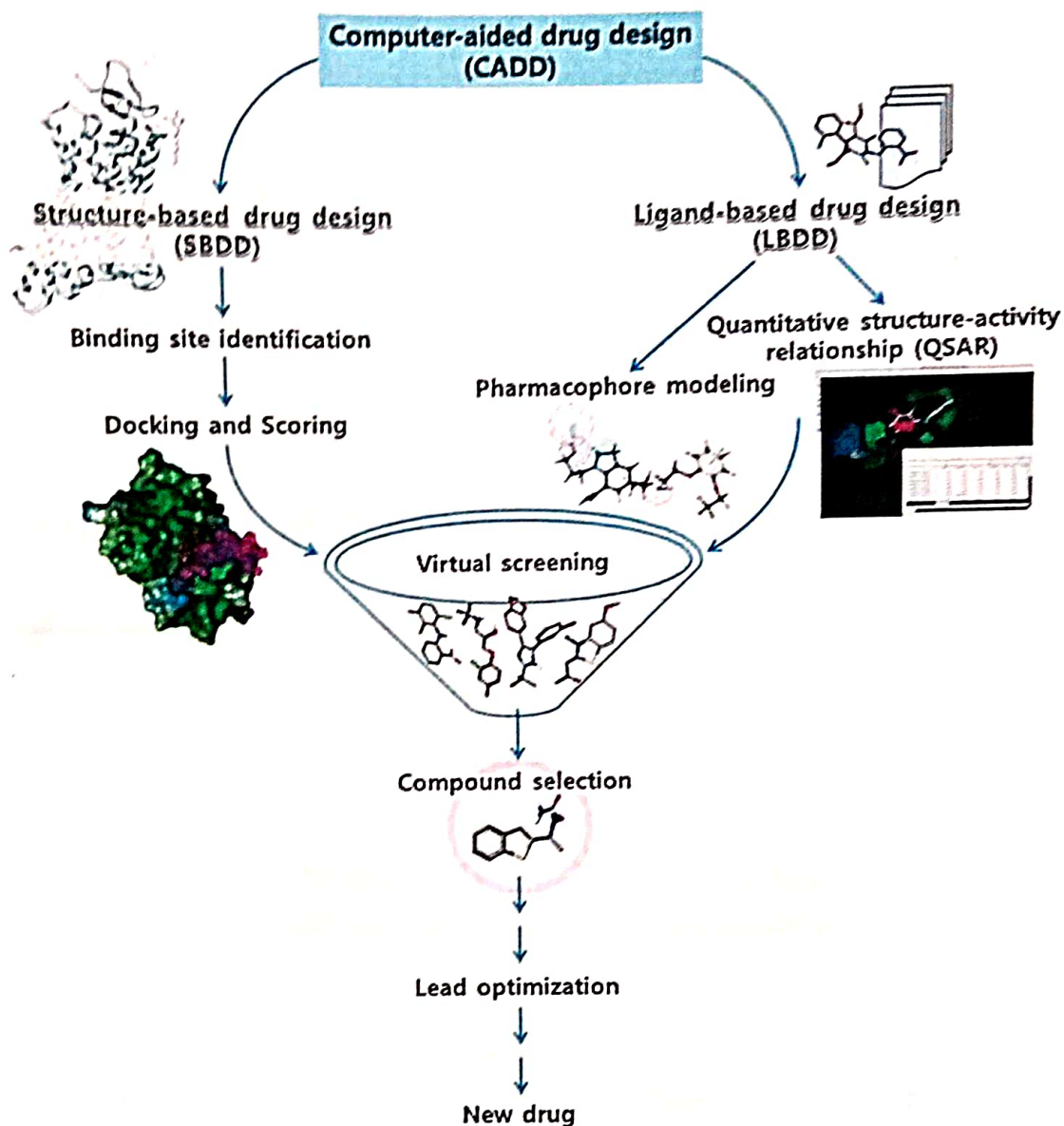


Figure 2: Representative workflow for computer-aided drug design

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Brochure:



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The Indian Institute of Engineers (IEI) student chapter

&

Department of Biotechnology

Organising

Hands on Drug discovery and its pharmacological applications

Date-21-05-2024

CHIEF PATRONS

Sri. Dayananda G
Chairman, SCE

Sri. G D Manoj
Managing Director, SCE

Dr. Kiran Kumar B
Faculty Co-ordinator

Dr. Veena S More
HOD, BT

Dr. Ramakrishna H
Principal

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Images of the Event:



At the end map PO's (with 3/2/1):

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2	2	3	-	2	3	3	3	3	3	-	2

Date of Submission: 30-05-2024

Co-ordinator Signature

Head of the Department
Signature of the HOD: Y
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore -57