

REF: MSRCASC-A/WS/CIR/2024-25/40

DATE: 19-04-2024

CIRCULAR


DEPARTMENT OF BIOTECHNOLOGY AND GENETICS

This is to inform all the B.Sc. IV semester students that Department of Biotechnology and Genetics, M S Ramaiah College of Arts, Science and Commerce-Autonomous, Bengaluru is organizing a Skill based Hands on Training cum Workshop on "Fins to Findings: Zebrafish in Embryonic Development, Drug Discovery, Disease Modeling, and Regeneration" from APRIL 24th to MAY 3rd, 2024 in association with Vertex Research and Education, Bengaluru.

Certificates will be provided to all the registered participants at the end of the workshop.

Resource Person: **Dr. Gokul Kesavan**, Principal Scientist and the Founder-Proprietor of Vertex Research and Education, Bengaluru.

Venue & Time: **Genetics Lab (Level 5)**
10.30 – 1.30 PM

 19/4/2024

HEAD OF THE DEPARTMENT

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 25/04
PRINCIPAL

Principal,
M.S. Ramaiah College of Arts, Science & Commerce
MSRIT Post, MSR Nagar
Bangalore - 560 054



RAMAIAH

College of Arts, Science
& Commerce - Autonomous

**M S Ramaiah College of Arts, Science and
Commerce - Autonomous**



Vertex

Research & Education

**DEPARTMENT OF BIOTECHNOLOGY AND GENETICS
ORGANIZES**

Skill Based Hands on training cum Workshop on

**Fins and Findings: Zebrafish in Embryonic Development, Drug Discovery,
Modeling and Regeneration**

Resource Person

**Dr Gokul Kesavan, Scientist & Founder Proprietor
Vertex Research and Education**

24th April to 03rd May, 2024

Venue : Genetics Lab, Level 5

PATRONS

Dr. M. R. Jayaram, Chairman, GET
Sri M. R. Janakiram, Director, GET
Sri M. R. Kondandaram, Director, GET
Sri B. S. Ramaprasad, C.C. GET
Sri G. Ramachandra, COT, GET
Dr. Vatsala C. Principal, MSRCASC
Dr. Anandappa Trambhadavar, Registrar (Academics)
Prof. Suresh J. Deputy Registrar, Admin & Evaluation
Prof. Jayarama B.S. Vice Principal
Prof. Puspha H. Vice Principal

ORGANIZING COMMITTEE

Dr. Lakshminanth R. N. Associate Prof & Head (PG)
Dr. Charviaragappa, Professor
Dr. Ramesha N. Professor
Dr. D. R. Jayashree, Professor
Dr. Ramakrishnaiah T. N. Assistant Professor
Dr. Soubhagya R., Assistant Professor
Dr. Radha Dayanidhi, Assistant Professor, Head (UG)
Ms. Beaulah Angel, Assistant Professor
Dr. Pramod Prakash Desai, Assistant Professor
Dr. Pavuthra Numari H. G. Assistant Professor
Dr. Muktha H., Assistant Professor
Dr. Satish Babu, Assistant Professor
Dr. Vijayalakshmi T. N. Assistant Professor

About the Workshop

Zebrafish is pivotal in biomedical research as their genome is sequenced completely for easy manipulation. Their transparent embryos offer insights into embryonic development, aiding in the study of organogenesis. Genetically akin to humans, they're instrumental in disease modeling and drug discovery, shedding light on conditions like cancer and cardiovascular diseases. Zebrafish's remarkable regenerative abilities also make them invaluable in studying tissue repair mechanisms, holding promise for future therapeutic interventions. This workshop will delve into zebrafish's multifaceted roles, spanning embryonic development, drug discovery, disease modeling, and regeneration.

Outcome

Students will embark on a comprehensive journey through various facets of zebrafish research, gaining hands-on experience and essential practical skills crucial for developmental and disease studies. Theoretical knowledge will be complemented by insights into the underlying logic behind each experiment, enriching participants' understanding of this dynamic field.

Convenors

Dr. Geetika Pant, Assistant Professor
Dr. Vinutha M., Assistant Professor
Dr. Rashmi Nagesh, Assistant Professor



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Development, Drug Discovery, Disease Modeling,
and Regeneration"**

24th April to 3rd May, 2024

Venue : Genetics Lab, Level 5



About College

Dr. M S Ramaiah, a visionary and philanthropist established "Gokula Education Foundation (GEF)", in the year 1962, to deliver education and healthcare for the betterment of mankind. Under the tutelage of GEF, M S Ramaiah College of Arts, Science and Commerce (MSRCASC) was established in 1994. MSRCASC is Re-accredited with "A" Grade by NAAC, Permanently affiliated to Bengaluru City University (BCU), and approved by AICTE. It is also recognized under section 2(f) & 12(B) of the UGC Act 1956. It has produced several rank holders and has alumni in distinguished institutions all over the world. The College has a legacy of organizing workshops, international and national conferences in various disciplines of Science, Commerce and Management in addition to Quality Initiatives in Higher Education.

About Department

Department of Biotechnology and Genetics in the M S Ramaiah College of Arts, Science and Commerce, was established in the year 2000 offering both UG and PG programs. The main objective of the program is to provide conducive learning environment for the students and to mitigate the shortage of biotechnologists in the field of food, agriculture, medicine and environmental management. Highly qualified and experienced faculty members deliver the lectures and conduct the practical in various subjects of as per the curriculum developed by the Bangalore City University. The department focuses mainly on teaching the basics, applications and hands-on-training in a state-of-the-art classroom and laboratory environment. It also facilitates students to broaden their knowledge for multitasking opportunities by conducting various curricular and extracurricular activities.

Resource Person



Dr Gokul Kesavan

Principal Scientist and the Founder-Proprietor of Vertex Research and Education



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**Resource Person: Dr. Gokul Kesavan, Founder and Proprietor
Vertex Research and Education**

Program Schedule

Batch: 1 (B.Sc. IV sem A sec)

Date: 24.4.2024 (day1) – 25.4.2024 (day2)

Time: 11.00- 13.45 (day1); 10:30 to 13:30 (day2)

Batch size: 50 students

Day1: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Introduction to Zebrafish as a research model	11:00- 11:30
Practical	Observing developmental stages	11.30-12:00
Practical	Staining: Alcian blue Staining: Alizarin red	12:00- 13:00
Theory	Drug screening, disease modelling in zebrafish	13:00-13.20
Practical	Drug treatment (Ethanol and VitD3)	13:20- 13: 45

Day2: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Regeneration in Zebrafish Gene Manipulation (transgenics, knock out and knock ins)	10:30- 11:00
Practical	Observing developmental stages; drug treated embryos	11:00- 11:30
Practical	Staining: Alcian blue Staining: Alizarin red	11:30- 12:30
Practical	Imaging and image analysis	12:30-13.15
Theory	Doubt clearing; Q & A	13:15- 13: 30

Batch: 2 (B.Sc. IV sem B sec)
Date: 27.4.2024 (day1) – 29.4.2024 (day2)
Time: 10.30- 13.30
Batch size: 50 students

Day 3: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Introduction to Zebrafish as a research model	10:30- 11:00
Practical	Observing developmental stages	11:00-11:30
Practical	Staining: Alcian blue Staining: Alizarin red	11:30- 12:30
Theory	Drug screening, disease modelling in zebrafish	12:30-12:50
Practical	Drug treatment (Ethanol and VitD3)	12:50- 13: 30

Day 4: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Regeneration in Zebrafish Gene Manipulation (transgenics, knock out and knock ins)	10:30- 11:00
Practical	Observing developmental stages; drug treated embryos	11:00- 11:30
Practical	Staining: Alcian blue Staining: Alizarin red	11:30- 12:30
Practical	Imaging and image analysis	12:30-13.15
Theory	Doubt clearing; Q & A	13:15- 13: 30

Batch: 3 (B.Sc. IV sem C sec)
Date: 30.4.2024 (day1) – 02.5.2024 (day2)
Time: 10.30- 13.30
Batch size: 50 students
Day 5: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Introduction to Zebrafish as a research model	10:30- 11:00
Practical	Observing developmental stages	11:00-11:30
Practical	Staining: Alcian blue Staining: Alizarin red	11:30- 12:30
Theory	Drug screening, disease modelling in zebrafish	12:30-12.50
Practical	Drug treatment (EtoH and VitD3)	12:50- 13: 30

Day 6: Genetics Lab (Level 5)

Module	Topic	Duration
Theory	Regeneration in Zebrafish Gene Manipulation (transgenics, knock out and knock ins)	10:30- 11:00
Practical	Observing developmental stages; drug treated embryos	11:00- 11:30
Practical	Staining: Alcian blue Staining: Alizarin red	11:30- 12:30
Practical	Imaging and image analysis	12:30-13.15
Theory	Doubt clearing; Q & A	13:15- 13: 30

Day 7: Valedictory Session (3rd May 2024 -10.30 onwards) - Auditorium

Welcome Address	Dr Radha Dayanidhi, HOD (UG)	10.35-10.45
Presidential Remarks	Dr Vatsala G, Principal	10:45- 10.55
Introducing Resource Person and company	Dr Geetika Pant	10.55-11.00
MOU Exchange		
Resource Person	Dr. Gokul Kesavan	11:00- 11:30
Q & A session & distribution of certificates, Students Feedback		
Dr. Vinutha M.	Vote of Thanks	11:40-11.50

Summary of the Zebrafish Workshop

The Department of Biotechnology and Genetics at MSRCASC, in collaboration with Vertex Research and Education, hosted a skill-based, hands-on workshop on utilizing zebrafish as a model organism from April 24 to May 3, 2024. Dr. Gokul Kesavan, a renowned zebrafish researcher in genetics, led the workshop, showcasing the latest advancements in genetic engineering, drug discovery, developmental biology, and regeneration using zebrafish.

The laboratory sessions provided practical training in several key areas:

1. **Zebrafish Embryo Development:** Participants examined the dynamic progression of zebrafish embryos from zygote to larval stages, with a focus on accurate staging for experimental precision.
2. **Cartilage Structure Analysis:** The importance of Alcian Blue staining in investigating cartilage structures was highlighted, providing insights into skeletal development and abnormalities.
3. **Bone Development:** Alizarin red staining was used to understand bone development in various larval stages of zebrafish.
4. **Microscopy and Imaging:** Comprehensive training in microscopy, imaging, and analysis techniques.

The laboratory sessions were supported by Dr. Rashmi Nagesh, Dr. Vinutha M, and Dr. Geetika Pant from the Department of Biotechnology and Genetics at MSRCASC.

Dr. Kesavan patiently addressed various questions from participants, covering topics such as the role of animal models in medical research and the significance of understanding organ development for future therapies. His explanations were clear and accessible, encouraging students to actively engage and ask complex questions.

Overall, this informative three-day workshop introduced new instruments and techniques for visualizing samples, and the delicious lunch served was a delightful bonus. Students and scholars in the life sciences field are encouraged to attend and conduct such enriching sessions in the future





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**Resource Person: Dr Gokul Kesavan,
Principal Scientist and the Founder-Proprietor,
Vertex Research and Education**

Program Schedule

Sl. No.	Batch and Section	Day	Date and Day	Time	Student Strength	Venue
1.	BATCH 1 B.Sc. IV sem 'A' sec	Day 1	24.04.2024 (Wednesday)	11.00 am - 1.45 pm	45	Genetics Lab
		Day 2	25.04.2024 (Thursday)	10:30 am to 1:30 pm	45	Genetics Lab
2.	BATCH 2 B.Sc. IV sem 'B' sec	Day 3	27.04.2024 (Saturday)	10:30 am to 1:30 pm	57	Genetics Lab
		Day 4	29.04.2024 (Monday)	10:30 am to 1:30 pm	57	Genetics Lab
3.	BATCH 3 B.Sc. IV sem 'C' sec	Day 5	30.04.2024 (Tuesday)	10:30 am to 1:30 pm	48	Genetics Lab
		Day 6	02.05.2024 (Thursday)	10:30 am to 1:30 pm	48	Genetics Lab
4	Valedictory Session	Day 7	03.05.2024 (Friday)	10.30am onwards	150	Kuvempu / Mother Teresa Auditorium

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**Resource Person: Dr. Gokul Kesavan, Founder and Proprietor
Vertex Research and Education**

IV sem B.Sc 'A' Sec Student List 24.4.24

Sl. No.	Reg.No.	Name	Student Signature
1	U18EV22S0156	Aditi.S	<i>Aditi.S</i>
2	U18EV22S0217	Amruthapriya C	<i>Amruthapriya C</i>
3	U18EV22S0298	Ananya.S	<i>Ananya.S</i>
4	U18EV22S0155	Arnab Saha	<i>Arnab Saha</i>
5	U18EV22S0162	Ashmith Asok	
6	U18EV22S0171	Ayushi jha	
7	U18EV22S0160	Gita Anjali. B	<i>Gita Anjali B</i>
8	U18EV22S0150	B Janani	<i>B. Janani</i>
9	U18EV22S0125	Chandreyi Banerjee	
10	U18EV22S0153	Daisy Dominique	<i>Daisy Dominique</i>
11	U18EV22S0230	Deekshitha M S	<i>Deekshitha M S</i>
12	U18EV22S0252	Dheeraj Kumar gaud	<i>Dheeraj Kumar</i>
13	U18EV22S0259	Eshwar KM	<i>Eshwar K.M</i>
14	U18EV22S0261	Hafsa H S	
15	U18EV22S0168	Hastha.D	<i>Hastha.D</i>
16	U18EV22S0337	J.Shiny Roberta	<i>J.Shiny Roberta</i>
17	U18EV22S0147	Janika N D	<i>Janika N D</i>
18	U18EV22S0310	K.K.srividya	<i>K.K.srividya</i>
19	U18EV22S0330	K Lalith Krishna	<i>K Lalith Krishna</i>
20	U18EV22S0256	Kushi Bagrecha	<i>Kushi Bagrecha</i>
21	U18EV22S0314	Laharika Vusa	<i>Laharika V</i>
22	U18EV22S0282	Padidam Lakshmi Sravya	<i>Sravya</i>
23	U18EV22S0208	Mohammed Zain	<i>Mohammed Zain</i>

24	U18EV22S0165	Namisha Sinha	Namisha Sinha
25	U18EV22S0140	Nandu Krishna	Nandu Krishna
26	U18EV22S0167	Nihaarika SN	Nihaarika
27	U18EV22S0207	Nischal B Rudraswamy	Nischal B
28	U18EV22S0144	Priyadarshini M	Priyadarshini M
29	U18EV22S0253	Rahul s	Rahul s
30	U18EV22S0209	Ravooru. Vedakshari	R. Vedakshari
31	U18EV22S0135	Rekha Kumari lohar	Rekha
32	U18EV22S0164	Renusri Dandi	Renusri
33	U18EV22S0260	S.Abineha	S. Abineha
34	U18EV22S0170	Sahasramshu.A	Sahasramshu.A
35	U18EV22S0351	Saman tahniet	Saman tahniet
36	U18EV22S0145	Sangeetha V	
37	U18EV22S0300	Saptarshree Das	Saptarshree
38	U18EV22S0316	Sasi kiran.s	Sasi kiran.s
39	U18EV22S0370	Debjit Banerjee	Debjit
40	U18EV22S0382	Mohammed Khizar Husaain	Mohammed Khizar Husaain
41	U18EV22S0391	R Vaishnavi	R Vaishnavi
42	U18EV22S0389	Chandni Gupta	Chandni
43	U18EV22S0397	Charan Kumar R	Charan Kumar R

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Vertex Research and Education

IV sem B.Sc 'A' Sec Student List : 25.4.24.

Sl. No.	Reg.No.	Name	Student Signature
1	U18EV22S0156	Aditi.S	<i>Aditi</i>
2	U18EV22S0217	Amruthapriya C	<i>Amruthapriya C</i>
3	U18EV22S0298	Ananya.S	<i>Ananya.S</i>
4	U18EV22S0155	Arnab Saha	<i>Arnab Saha</i>
5	U18EV22S0162	Ashmith Asok	<i>Ashmith Asok</i>
6	U18EV22S0171	Ayushi jha	<i>Ayushi jha</i>
7	U18EV22S0160	Gita Anjali. B	<i>Gita Anjali. B</i>
8	U18EV22S0150	B Janani	<i>B. Janani</i>
9	U18EV22S0125	Chandreyi Banerjee	<i>Chandreyi Banerjee</i>
10	U18EV22S0153	Daisy Dominique	<i>Daisy Dominique</i>
11	U18EV22S0230	Deekshitha M S	<i>Deekshitha M S</i>
12	U18EV22S0252	Dheeraj Kumar gaud	<i>Dheeraj Kumar gaud</i>
13	U18EV22S0259	Eshwar KM	<i>Eshwar KM</i>
14	U18EV22S0261	Hafsa H S	<i>Hafsa H S</i>
15	U18EV22S0168	Hastha.D	<i>Hastha.D</i>
16	U18EV22S0337	J.Shiny Roberta	<i>J.Shiny Roberta</i>
17	U18EV22S0147	Janika N.D	<i>Janika N.D</i>
18	U18EV22S0310	K.K.srividya	<i>K.K.srividya</i>
19	U18EV22S0330	K Lalith Krishna	<i>K Lalith Krishna</i>
20	U18EV22S0256	Kushi Bagrecha	<i>Kushi Bagrecha</i>
21	U18EV22S0314	Laharika Vusa	<i>Laharika V.</i>
22	U18EV22S0282	Padidam Lakshmi Sravya	<i>Padidam Lakshmi Sravya</i>
23	U18EV22S0208	Mohammed Zain	<i>Mohammed Zain</i>

DAISY DOMINIC
DAISY DOMINIC



24	U18EV22S0165	Namisha Sinha	<i>Nisha</i>
25	U18EV22S0140	Nandu Krishna	<i>Nandu</i>
26	U18EV22S0167	Nihaarika SN	<i>Niha</i>
27	U18EV22S0207	Nischal B Rudraswamy	<i>Nischal</i>
28	U18EV22S0144	Priyadarshini M	<i>Priya</i>
29	U18EV22S0253	Rahul s	
30	U18EV22S0209	Ravooru. Vedakshari	<i>R. Vedakshari</i>
31	U18EV22S0135	Rekha Kumari Iohar	<i>Rekha</i>
32	U18EV22S0164	Renusri Dandi	<i>Renusri</i>
33	U18EV22S0260	S.Abineha	<i>S. Abineha</i>
34	U18EV22S0170	Sahasramshu.A	<i>Sahasramshu</i>
35	U18EV22S0351	Saman tahniet	<i>Saman</i>
36	U18EV22S0145	Sangeetha V	
37	U18EV22S0300	Saptarshee Das	<i>Saptarshee</i>
38	U18EV22S0316	Sasi kiran.s	<i>Sasi kiran</i>
39	U18EV22S0370	Debjit Banerjee	<i>Debjit</i>
40	U18EV22S0382	Mohammed Khizar Husaain	<i>Mohammed Khizar</i>
41	U18EV22S0391	R Vaishnavi	<i>R Vaishnavi</i>
42	U18EV22S0389	Chandni Gupta	<i>Chandni</i>
43	U18EV22S0397	Charan Kumar R	<i>Charan</i>

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**Resource Person: Dr. Gokul Kesavan,
Founder and Proprietor
Vertex Research and Education**

Valedictory Session: 3rd May 2024, 10.30am onwards

Venue: Mother Teresa Auditorium

List of students - Section A

03/05/24.

Sl No	Name	USN	Student Signature
①	Aditi.S	U18EV22S0156	
2	Amruthapriya C	U18EV22S0217	
3	Ananya.S	U18EV22S0298	Ananya.S
4	Arnab Saha	U18EV22S0155	Arnab Saha
⑤	Ashmith Asok	U18EV22S0162	
6	Ayushi jha	U18EV22S0171	-
7	Gita Anjali. B	U18EV22S0160	
8	B Janani	U18EV22S0150	B. Janani
9	Chandreyi Banerjee	U18EV22S0125	-
10	Daisy Dominique	U18EV22S0153	Daisy Dominique
11	Deekshitha M S	U18EV22S0230	
12	Dheeraj Kumar gaud	U18EV22S0252	
13	Eshwar KM	U18EV22S0259	Eshwar.M
⑭	Hafsa H S	U18EV22S0261	Hafsa H S
15	Hastha.D	U18EV22S0168	
16	J.Shiny Roberta	U18EV22S0337	
⑰	Janika N D	U18EV22S0147	
18	K.K.srividya	U18EV22S0310	K.srividya
⑱	K Lalith Krishna	U18EV22S0330	
20	Kushi Bagrecha	U18EV22S0256	Kushi Bagrecha
21	Laharika Vusa	U18EV22S0314	Laharika V
22	Padidam Lakshmi Sravya	U18EV22S0282	Sravya
23	Mohammed Zain	U18EV22S0208	
24	Namisha Sinha	U18EV22S0165	Namisha

25	Nandu Krishna	U18EV22S0140	Abhinav
26	Nihaarika SN	U18EV22S0167	Niharika
27	Nischal B Rudraswamy	U18EV22S0207	Nischal
28	Priyadarshini M	U18EV22S0144	Priyadarshini
29	Rahul s	U18EV22S0253	Rahul
30	Ravooru. Vedakshari	U18EV22S0209	R. Vedakshari
31	Rekha Kumari lohar	U18EV22S0135	Rekha
(32)	Renusri Dandi	U18EV22S0164	
33	S.Abineha	U18EV22S0260	S. Abineha
34	Sahasramshu.A	U18EV22S0170	Sahasramshu
35	Saman tahniet	U18EV22S0351	Saman
36	Sangeetha V	U18EV22S0145	Sangeetha
(37)	Saptarshee Das	U18EV22S0300	
38	Sasi kiran.s	U18EV22S0316	Sasi kiran
39	Debjit Banerjee	U18EV22S0370	Debjit
40	Mohammed Khizar Husaain	U18EV22S0382	Mohammed Khizar
41	R Vaishnavi	U18EV22S0391	R Vaishnavi
42	Chandni Gupta	U18EV22S0389	Chandni
43	Charan Kumar R	U18EV22S0397	Charan

- ① Ayushi
- ② Chandruji
- ③ Hafsa
- ④ Sangeetha

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**Resource Person: Dr. Gokul Kesavan, Founder and Proprietor
Vertex Research and Education**

IV sem B.Sc 'B' Sec Student List 27.04.24

Sl.No.	Reg. No.	Name	Student Signature
1	U18EV22S0247	Akshata Kankale	<i>Akshata</i>
2	U18EV22S0366	B.Swetha Reddy	
3	U18EV22S0361	Beesam Navadeep	
4	U18EV22S0128	Chandana V R	<i>Chandana.V.R.</i>
5	U18EV22S0127	Chinmaya.Balachandran	<i>Chinmaya</i>
6	U18EV22S0227	D. Abhishek	<i>Abhishek</i>
7	U18EV22S0129	Devika.A	<i>Devika</i>
8	U18EV22S0251	Hrishabh Gupta	<i>Hrishabh</i>
9	U18EV22S0122	Jezreel john johnson	<i>Jezreel</i>
10	U18EV22S0376	Keziya G S	<i>Keziya</i>
11	U18EV22S0367	Lakshmi. A. S	<i>Lakshmi</i>
12	U18EV22S0119	Mandara C A	<i>Mandara.C.A</i>
13	U18EV22S0130	Megha Raj	<i>Megha</i>
14	U18EV22S0245	Mitali Prasad	<i>Mitali</i>
15	U18EV22S0286	Mohammed Ismail Lamba	
16	U18EV22S0350	Monisha.M	<i>Monisha.M</i>
17	U18EV22S0213	N.Ajay Amirtharajo	<i>N.Ajay</i>
18	U18EV22S0347	Navya L	<i>Navya L</i>
19	U18EV22S0117	Nikitha Ajith	<i>Nikitha</i>
20	U18EV22S0118	Nimmagadda Mohan	
21	U18EV22S0121	Niveditha R	<i>Niveditha.R</i>
22	U18EV22S0296	P.Harshitha	<i>P.Harshitha</i>
23	U18EV22S0132	Prajwal A Kambar	<i>Prajwal Kambar</i>
24	U18EV22S0386	Pralayakaveri Devipriya	<i>Devipriya</i>

25	U18EV22S0377	Preetham.R	<i>P. Preetham</i>
26	U18EV22S0352	Purbasa Mandal	<i>Purbasa Mandal</i>
27	U18EV22S0345	Radhakrishnan Sreedhanya	<i>(R) Radhakrishnan Sreedhanya</i>
28	U18EV22S0123	Sakshi Sunil Advitote	
29	U18EV22S0197	Sandeep Shivanand Hosur	<i>Sandeep Shivanand Hosur</i>
30	U18EV22S0244	Sanjana Suresh Balutagi	<i>Sanjana Suresh Balutagi</i>
31	U18EV22S0308	Sreekantham Aniruddha	<i>Sreekantham Aniruddha</i>
32	U18EV22S0357	Tejaswini S	<i>Tejaswini S</i>
33	U18EV22S0134	Ujwal R	<i>Ujwal R</i>
34	U18EV22S0381	Vanipenta Sravan Kumar	<i>V. Sravan Kumar</i>
35	U18EV22S0378	Arya Arun Kumar	<i>Arya Arun Kumar</i>
36	U18EV22S0343	Ashissa Bedamatta	<i>Ashissa Bedamatta</i>
37	U18EV22S0262	Hari Haran	<i>Hari Haran</i>
38	U18EV22S0293	K. Anuragh	<i>K. Anuragh</i>
39	U18EV22S0307	Konagalla Swathi srujana	<i>Konagalla Swathi srujana</i>
40	U18EV22S0003	Nandana G	<i>Nandana G</i>
41	U18EV22S0228	Neha Kiran	<i>Neha Kiran</i>
(42)	U18EV22S0354	Priyanka v Dhargi	
43	U18EV22S0166	Sayan Paul	
44	U18EV22S0301	Sharanya C Dalawai	<i>Sharanya C Dalawai</i>
45	U18EV22S0312	Shivam sharma	<i>Shivam sharma</i>
46	U18EV22S0169	Sidharth S	<i>Sidharth S</i>
47	U18EV22S0152	Sinchana K	<i>Sinchana K</i>
48	U18EV22S0255	Sivaprasad TS	<i>Sivaprasad TS</i>
49	U18EV22S0294	Swapna Sahoo	<i>Swapna Sahoo</i>
50	U18EV22S0392	Tanishka Dewangan	<i>Tanishka Dewangan</i>
51	U18EV22S0138	Tasnim Hossain Roza	
52	U18EV22S0214	Tejaswee Brahma	<i>Tejaswee Brahma</i>
53	U18EV22S0163	Thalari Sravani	<i>Thalari Sravani</i>
54	U18EV22S0284	Trishala Chakraborty	<i>Trishala Chakraborty</i>
55	U18EV22S0172	V Archana	<i>V Archana</i>
56	U18EV22S0161	Vishnudas	
57	U18EV22S0279	Yazhini S	<i>Yazhini S</i>

(MB/che) 58

U18EV22S0380 Disha HM

Disha HM

(MB/che) 59

U18EV22S0360 Nagalakshmi M

Nagalakshmi M

(MB/che) 60

U18EV22S0229 Mahee Prabhu

Mahee Prabhu

(MB/che) 61

U18EV22S0071 Hemashree

Hemashree

(MB/che) 62

U18EV22S0070 K. Balaji

K. Balaji

Full Panug Harshi

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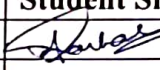


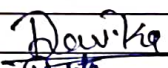
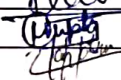
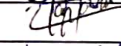
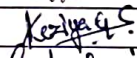
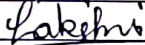
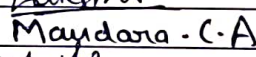
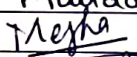

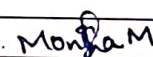

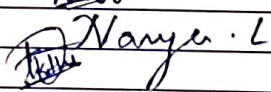

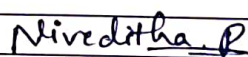
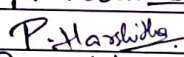
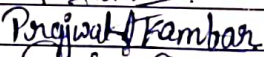
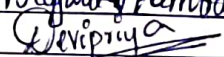
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**Resource Person: Dr. Gokul Kesavan, Founder and Proprietor
Vertex Research and Education**

IV sem B.Sc 'B' Sec Student List 29.4.24.

Sl.No.	Reg. No.	Name	Student Signature
1	U18EV22S0247	Akshata Kankale	
2	U18EV22S0366	B.Swetha Reddy	
3	U18EV22S0361	Beesam Navadeep	
4	U18EV22S0128	Chandana V R	 Chandana V R
5	U18EV22S0127	Chinmaya.Balachandran	
6	U18EV22S0227	D. Abhishek	
7	U18EV22S0129	Devika.A	 Devika
8	U18EV22S0251	Hrishabh Gupta	
9	U18EV22S0122	Jezreel john johnson	
10	U18EV22S0376	Keziya G S	 Keziya G S
11	U18EV22S0367	Lakshmi. A. S	 Lakshmi
12	U18EV22S0119	Mandara C A	 Mandara - C.A
13	U18EV22S0130	Megha Raj	 Megha
14	U18EV22S0245	Mitali Prasad	 Mitali
15	U18EV22S0286	Mohammed Ismail Lamba	
16	U18EV22S0350	Monisha.M	 Monisha.M
17	U18EV22S0213	N. Ajay Amirtharaj	 N.A
18	U18EV22S0347	Navya L	 Navya . L
19	U18EV22S0117	Nikitha Ajith	
20	U18EV22S0118	Nimmagadda Mohan	
21	U18EV22S0121	Niveditha R	 Niveditha R
(22)	U18EV22S0296	P.Harshitha *	 P.Harshitha
23	U18EV22S0132	Prajwal A Kambar	 Prajwal Kambar
24	U18EV22S0386	Pralayakaveri Devipriya	 Devipriya

Full name
Panuganti
Harshitha

25	U18EV22S0377	Preetham.R	<i>Preetham</i>
26	U18EV22S0352	Purbasa Mandal	<i>Purbasa Mandal</i>
27	U18EV22S0345	Radhakrishnan Sreedhanya	<i>Radha</i>
28	U18EV22S0123	Sakshi Sunil Advitote	
29	U18EV22S0197	Sandeep Shivanand Hosur	<i>Sandeep</i>
30	U18EV22S0244	Sanjana Suresh Balutagi	<i>Sanjana</i>
31	U18EV22S0308	Sreekantham Aniruddha	<i>Sreekantham</i>
32	U18EV22S0357	Tejaswini S	<i>Tejaswini</i>
33	U18EV22S0134	Ujwal R	<i>Ujwal R</i>
34	U18EV22S0381	Vanipenta Sravan Kumar	<i>V. Sravan Kumar</i>
35	U18EV22S0378	Arya Arun Kumar	<i>Arya</i>
36	U18EV22S0343	Ashissa Bedamatta	<i>Ashissa Bedamatta</i>
37	U18EV22S0262	Hari Haran	<i>Hari</i>
38	U18EV22S0293	K. Anuragh	<i>K. Anuragh</i>
39	U18EV22S0307	Konagalla Swathi srujana	<i>Swathi</i>
40	U18EV22S0003	Nandana G	<i>Nandana</i>
41	U18EV22S0228	Neha Kiran	<i>Neha Kiran</i>
42	U18EV22S0354	Priyanka v Dhargi	<i>Priyanka</i>
43	U18EV22S0166	Sayan Paul	<i>Sayan Paul</i>
44	U18EV22S0301	Sharanya C Dalawai	<i>Sharanya</i>
45	U18EV22S0312	Shivam sharma	<i>Shivam</i>
46	U18EV22S0169	Sidharth S	<i>Sidharth</i>
47	U18EV22S0152	Sinchana K	<i>Sinchana</i>
48	U18EV22S0255	Sivaprasad TS	<i>Sivaprasad</i>
49	U18EV22S0294	Swapna Sahoo	<i>Swapna</i>
50	U18EV22S0392	Tanishka Dewangan	<i>Tanishka</i>
51	U18EV22S0138	Tasnim Hossain Roza	
✓52	U18EV22S0214	Tejaswee Brahma	<i>Tejaswee Brahma</i>
53	U18EV22S0163	Thalari Sravani	<i>Sravani</i>
✓54	U18EV22S0284	Trishala Chakraborty	<i>Trishala Chakraborty</i>
55	U18EV22S0172	V Archana	<i>Archana</i>
56	U18EV22S0161	Vishnudas	
57	U18EV22S0279	Yazhini • S	<i>Yazhini</i>

- 58 U18EV22S0070 K. Balaji
 59 U18EV22S0360 Nagalakshmi M
 60 U18EV22S0380 Disha .HM
 61 U18EV22S0071 Hema Shree . S.
 62 U18EV22S0229 Mahu Prabhu

Balaji
Nagalakshmi M
Dishajm.
Mahu

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Disease Modeling, and Regeneration"

**Resource Person: Dr. Gokul Kesavan,
Founder and Proprietor
Vertex Research and Education**

Valedictory Session: 3rd May 2024, 10.30am onwards

Venue: Mother Teresa Auditorium

List of students - Section B 03/05/24.

Sl No.	Name :	USN	Student Signature
1	Akshata Kankale	U18EV22S0247	
2	B.Swetha Reddy	U18EV22S0366	
3	Beesam Navadeep	U18EV22S0361	
4	Chandana V R	U18EV22S0128	
5	Chinmaya.Balachandran	U18EV22S0127	
6	D. Abhishek	U18EV22S0227	
7	Devika.A	U18EV22S0129	
8	Hrishabh Gupta	U18EV22S0251	
9	Jezreel john johnson	U18EV22S0122	
10	Keziya G S	U18EV22S0376	
11	Lakshmi. A. S	U18EV22S0367	
12	Mandara C A	U18EV22S0119	Mandara - C-A
13	Megha Raj	U18EV22S0130	
14	Mitali Prasad	U18EV22S0245	
15	Mohammed Ismail Lamba	U18EV22S0286	
16	Monisha.M	U18EV22S0350	
17	N. Ajay Amirtharaj	U18EV22S0213	
18	Navya L	U18EV22S0347	
19	Nikitha Ajith	U18EV22S0117	
20	Nimmagadda Mohan	U18EV22S0118	
21	Niveditha R	U18EV22S0121	
22	P.Harshitha	U18EV22S0296	
23	Prajwal A Kambar	U18EV22S0132	

24	Pralayakaveri Devipriya	U18EV22S0386	P. Devipriya
25	Preetham.R	U18EV22S0377	P. Preetham
26	Purbasa Mandal	U18EV22S0352	Purbasa Mandal
27	Radhakrishnan Sreedhanya	U18EV22S0345	R. Sreedhanya
28	Sakshi Sunil Advitote	U18EV22S0123	
29	Sandeep Shivanand Hosur	U18EV22S0197	
30	Sanjana Suresh Balutagi	U18EV22S0244	S. Sanjana
31	Sreekantham Aniruddha	U18EV22S0308	S. Aniruddha
32	Tejaswini S	U18EV22S0357	T. Tejaswini
33	Ujwal R	U18EV22S0134	U. Ujwal R
34	Vanipenta Sravan Kumar	U18EV22S0381	V. Sravan Kumar
35	Arya Arun Kumar	U18EV22S0378	A. Arun Kumar
36	Ashissa Bedamatta	U18EV22S0343	A. Ashissa
37	Hari Haran	U18EV22S0262	H. Hari Haran
38	K. Anuragh	U18EV22S0293	K. Anuragh
39	Konagalla Swathi srujana	U18EV22S0307	K. Swathi
40	Nandana G	U18EV22S0003	N. Nandana G
41	Neha Kiran	U18EV22S0228	N. Neha Kiran
42	Priyanka v Dhargi	U18EV22S0354	P. Priyanka
43	Sayan Paul	U18EV22S0166	S. Sayan Paul
44	Sharanya C Dalawai	U18EV22S0301	S. Sharanya
45	Shivam sharma	U18EV22S0312	S. Shivam
46	Sidharth S	U18EV22S0169	S. Sidharth S
47	Sinchana K	U18EV22S0152	S. Sinchana K
48	Sivaprasad TS	U18EV22S0255	
49	Swapna Sahoo	U18EV22S0294	S. Swapna
50	Tanishka Dewangan	U18EV22S0392	T. Tanishka
51	Tasnim Hossain Roza	U18EV22S0138	
52	Tejaswee Brahma	U18EV22S0214	T. Tejaswee Brahma
53	Thalari Sravani	U18EV22S0163	T. Sravani
54	Trishala Chakraborty	U18EV22S0284	T. Chakraborty
55	V Archana	U18EV22S0172	V. Archana
56	Vishnudas	U18EV22S0161	
57	Yazhini . S	U18EV22S0279	Y. Yazhini

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28
29
Absent

58	Nagalakshmi M	U18EV22S0360	N. Nagalakshmi
59	Resha.HM	U18EV22S0380	R. Resha HM
60	K. Babji	U18EV22S0070	K. Babji
61	HEMA SHREE . S	U18EV22S0071	H. Hema Shree S
62	MAHEE PRABHU	U18EV22S0229	M. Mahee Prabhu

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**Resource Person: Dr. Gokul Kesavan, Founder and Proprietor
Vertex Research and Education**

IV sem B.Sc 'C' Sec Student List 30/4/24.

Sl No	Reg. No	Student name	Student Signature
1	U18EV22S0092	Ankura B	-
2	U18EV22S0095	Anusha R	Anusha
3	U18EV22S0094	Anya Avinash	-
4	U18EV22S0093	Atafa Atira	-
5	U18EV22S0091	Devansh Dixit	-
6	U18EV22S0099	K Mandara	Mandara
7	U18EV22S0100	Krishnapriya M M	Krishna Priya M
8	U18EV22S0221	Laya N	Laya
9	U18EV22S0101	Maadu Nagireddy Gari Bhavana	Bhavana
10	U18EV22S0265	Malavika P	Malavika
11	U18EV22S0226	Nikitha B M	Nikitha
12	U18EV22S0340	Simra Ali	Simra
13	U18EV22S0097	Snigdha A	Snigdha
14	U18EV22S0103	Sri Lalitha Hiranmai Mula	Sri Lalitha
15	U18EV22S0266	Stuti Parekh	Stuti Parekh
16	U18EV22S0264	Tanya Chiripal S	Tanya Chiripal
17	U18EV22S0087	Vaaridhi Dalwai	Vaaridhi
18	U18EV22S0268	Yadunand S Mohan	Yadunand
19	U18EV22S0364	Rakesh S	Rakesh
20	U18EV22S0369	Yuaktha L - Yuktha . L	Yuaktha
21	U18EV22S0269	Jayant B Patil	Jayant
22	U18EV22S0270	Deeksha B M	Deeksha
23	U18EV22S0222	Manasa V	Manasa V

24	U18EV22S0271	Aindrila Paul Aindrilla Paul	A Paul
25	U18EV22S0281	Kashish Salian	Kashish
26	U18EV22S0112	Nihal Pradeepan E	Nihal
27	U18EV22S0114	G Baby Tejaswini	G. Baby Tejaswini
28	U18EV22S0272	Devika Santhosh	Devika
29	U18EV22S0115	Barsha Sarkar	Barsha Sarkar
30	U18EV22S0108	Koushik G P	Koushik G P
31	U18EV22S0305	Ramya N Murthy	Ramya Murthy
32	U18EV22S0102	Vadlaganti Vibha Sai Vadlaganti	Vadlaganti
33	U18EV22S0116	Sandeep Kumar Behera	Sandeep
34	U18EV22S0273	Ananya Bharadwaj	Ananya
35	U18EV22S0356	Suhas GS	Suhas
36	U18EV22S0385	Angel Immaculate S.	Angel
37	U18EV22S0358	Keerthana S	Keerthana
38	U18EV22S0074	Deeksha D Kashyap	Deeksha
39	U18EV22S0075	Soha Khanum	Soha
40	U18EV22S0078	Mohitha A	Mohitha A
41	U18EV22S0080	Sreyashee Basu	Sreyashee
42	U18EV22S0082	Naaila Hudah	Naaila
43	U18EV22S0262	Akshitha Prakash	Akshitha
44	U18EV22S0313	Manisha Kumari	Manisha
45	U18EV22S0359	Mansi Singh	Mansi
46	U18EV22S0387	Shraddha Sudharshan	Shraddha
47	U18EV22S0076	Hanumेशa	Hanumेशa
48	U18EV22S0351	SAMAN TAHNIET	Samy

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IV sem B.Sc 'C' Sec Student List 02/05/24

Sl No	Reg. No	Student name	Student Signature
1	U18EV22S0092	Ankura B	-
2	U18EV22S0095	Anusha R	Anusha
3	U18EV22S0094	Anya Avinash	-
4	U18EV22S0093	Atafa Atira	-
5	U18EV22S0091	Devansh Dixit	-
6	U18EV22S0099	K Mandara	Mandara
7	U18EV22S0100	Krishnapriya M M	
8	U18EV22S0221	Laya N	Laya
9	U18EV22S0101	Maadu Nagireddy Gari Bhavana	Bhavana
10	U18EV22S0265	Malavika P	Malavika P
11	U18EV22S0226	Nikitha B M	Nikitha B M
12	U18EV22S0340	Simra Ali	Simra Ali
13	U18EV22S0097	Snigdha A	Snigdha A
14	U18EV22S0103	Sri Lalitha Hiranmai Mula	Sri Lalitha Hiranmai Mula
15	U18EV22S0266	Stuti Parekh	Stuti Parekh
16	U18EV22S0264	Tanya Chiripal S	Tanya Chiripal S
17	U18EV22S0087	Vaaridhi Dalwai	Vaaridhi Dalwai
18	U18EV22S0268	Yadunand S Mohan	Yadunand S Mohan
19	U18EV22S0364	Rakesh S	Rakesh S
20	U18EV22S0369	Yuaktha L Yuktha . L	Yuaktha L Yuktha . L
21	U18EV22S0269	Jayant B Patil	Jayant B Patil
22	U18EV22S0270	Deeksha B M	Deeksha B M
23	U18EV22S0222	Manasa V	Manasa V

24	U18EV22S0271	Aindrila Paul Aindrilla Paul	APaul
25	U18EV22S0281	Kashish Salian	Kashish
26	U18EV22S0112	Nihal Pradeepan E	Nihal
27	U18EV22S0114	G Baby Tejaswini	G Baby Tejaswini
28	U18EV22S0272	Devika Santhosh	Devika
29	U18EV22S0115	Barsha Sarkar	Barsha Sarkar
30	U18EV22S0108	Koushik G P	Koushik G P
31	U18EV22S0305	Ramya N Murthy	Ramya N Murthy
32	U18EV22S0102	Vaglaganti Vibha Sai . V	Vibha
33	U18EV22S0116	Sandeep Kumar Behera	Sandeep
34	U18EV22S0273	Ananya Bharadwaj	Ananya
35	U18EV22S0356	Suhas GS	Suhas
36	U18EV22S0385	Angel Immaculate S	Angel
37	U18EV22S0358	Keerthana S	Keerthana
38	U18EV22S0074	Deeksha D Kashyap	Deeksha
39	U18EV22S0075	Soha Khanum	Soha
40	U18EV22S0078	Mohitha A	Mohitha A
41	U18EV22S0080	Sreyashee Basu	Sreyashee
42	U18EV22S0082	Naaila Hudah	Naaila
43	U18EV22S0262	Akshitha Prakash	Akshitha
44	U18EV22S0313	Manisha Kumari	Manisha
45	U18EV22S0359	Mansi Singh	Mansi
46	U18EV22S0387	Shraddha Sudharshan	Shraddha
47	U18EV22S0076	Hanumesha	Hanumesha

Department of Biotechnology and Genetics

In association with

Vertex Research and Education

Organizes

Skill based Hands on Training cum Workshop on

"Fins to Findings: Zebrafish in Embryonic Development, Drug Discovery, Disease Modeling, and Regeneration"

Resource Person: Dr. Gokul Kesavan,
Founder and Proprietor
Vertex Research and Education

Valedictory Session: 3rd May 2024, 10.30am onwards

Venue: Mother Teresa Auditorium

List of students - Section C 03/05/24

Sl No	Reg. No	Student name	Student Signature
1	U18EV22S0092	ANKURA B	-
2	U18EV22S0095	Anusha R	Anusha
3	U18EV22S0094	ANKA ANIMASH	-
4	U18EV22S0093	ASFA ATIBA	-
5	U18EV22S0091	DEVANSH DEKIT	-
6	U18EV22S0099	K Mandara	-
7	U18EV22S0100	Krishnapriya M M	Mandara Krishna M
8	U18EV22S0221	LAYA N	Laya N
9	U18EV22S0101	Maadu Nagireddy Gari Bhavana	Bhavana
10	U18EV22S0265	MALAVIKA P	Malavika
11	U18EV22S0226	NIKITHA B M	Nikitha
12	U18EV22S0340	SIMRA ALI	Simra
13	U18EV22S0097	SNIGDHA A	Snigdha
14	U18EV22S0103	Sri Lalitha Hiranmai Mula	Sri Lalitha
15	U18EV22S0266	STUTI PAREKH	Stuti
16	U18EV22S0264	TANYA CHIRIPAL S	Tanya Chiripal
17	U18EV22S0087	VAARIDHI DALWAI	V. D.
18	U18EV22S0268	YADUNAND S MOHAN	Yadunand
19	U18EV22S0364	Rakesh S	Rakesh
20	U18EV22S0369	Yuaktha L	Yuaktha
21	U18EV22S0269	JAYANT B PATIL	Jayant
22	U18EV22S0270	DEEKSHA B M	Deeksha
23	U18EV22S0222	MANASA V	Manasa
24	U18EV22S0271	Aindrila Paul	Aindrila
25	U18EV22S0281	Kashish Salian	Kashish
26	U18EV22S0112	Nihal Pradeepan E	Nihal
27	U18EV22S0114	G Baby Tejaswini	G Baby Tejaswini

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4	U18EV22S0093	ATAFA-ATIRA	-
5	U18EV22S0091	DEVANSH-DIXIT	-
6	U18EV22S0099	K Mandara	-
7	U18EV22S0100	Krishnapriya M M	Mandara Krishnapriya M
8	U18EV22S0221	LAYA N	Laya
9	U18EV22S0101	Maadu Nagireddy Gari Bhavana	Bhavana
10	U18EV22S0265	MALAVIKA P	Malavika
11	U18EV22S0226	NIKITHA B M	Nikitha
12	U18EV22S0340	SIMRA ALI	Simra
13	U18EV22S0097	SNIGDHA A	Snigdha
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23	U18EV22S0222	MANASA V	Manasa V
24	U18EV22S0271	Aindrill Paul	Aindrill
25	U18EV22S0281	Kashish Salian	-
26	U18EV22S0112	Nihal Pradeepan E	-
27	U18EV22S0114	G Baby Tejaswini	G Baby Tejaswini

✓ 28	U18EV22S0272	Devika Santhosh	Devika
✓ 29	U18EV22S0115	Barsha Sarkar	Barsha Sarkar
✓ 30	U18EV22S0108	Koushik G P	Koushik G P
✓ 31	U18EV22S0305	Ramya N Murthy	Ramya N Murthy
✓ 32	U18EV22S0102	Vaglaganti Vibha sai	vibha sai
✓ 33	U18EV22S0116	Sandeep Kumar Behera	Sandeep Kumar Behera
✓ 34	U18EV22S0273	Ananya Bharadwaj	
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✓ 46	U18EV22S0387	Shraddha Sudharshan	
✓ 47	U18EV22S0076	Hanumesha	Hanumesha



RAMAIAH
College of Arts, Science
& Commerce - Autonomous

This is to certify that

Ms/Mr.

Has successfully completed a skill based Hands-on-training cum workshop on

**"Fins to Findings: Zebrafish in Embryonic Development,
Drug Discovery, Disease Modeling, and Regeneration"**

Held between 24 April to 03 May 2024

This course offered a comprehensive blend of theoretical knowledge and hands-on practical experience. Participants delved into the intricacies of Zebrafish embryonic development, engaging in diverse activities such as drug treatments across varying concentrations, cartilage and bone staining techniques, microscopy, and image analysis. Each student independently conducted experiments, fostering a deep understanding of the subject matter while honing practical skills



K. Gokul

Dr. Gokul Kesavan
Principal Scientist
Vertex Research and Education

Dr. Vatsala G
Principal
MSRCASC