

Ref. No. MSRCASC/A/WS/CIR 2024-25/

Dated: 05-04-2025

CIRCULAR

The Department of Biotechnology and Genetics is pleased to announce a Two-Day Workshop on "Exploring Drosophila-Practical Approaches from Handling to Behaviour" exclusively designed for BSc Genetics students. This program aims to provide knowledge on Behavioural Genetics of Drosophila. We encourage all Genetics students to participate and get advantage of this unique learning opportunity to enhance their academic and professional competencies.

Details of the Program are as follows:

- **Dates:** April 8th and 9th 2025
- **Venue:** Genetics Lab, MSRCASC
- **Time:** 9:00 am to 4:00 pm

Ms. Beaulah Angel

Dr. Pavithra Kumari H.G.

Co-ordinators

Dr. Ramakrishnaiah T N

Department of Genetics
M.S. Ramaiah College of
Arts, Science & Commerce

Dr. Pushpa H

Principal



RAMAIAH

College of Arts, Science
& Commerce - Autonomous



Department of Biotechnology & Genetics
organises
Two-Day Workshop on

"Exploring Drosophila

- Practical Approaches from
Handling to Behaviour"

Date : April 8th and 9th 2025

Time : 9am to 4pm

Venue : Genetics Lab, MSRCASC



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Organizes

Two-day Workshop on “ Exploring Drosophila- Practical approaches from Handling to Behaviour”

Workshop Schedule

Batch 1: B.Sc II Sem Genetics

Batch 2: B.Sc IV Sem Genetics

Batch 3: B.Sc VI Sem Genetics

Date	Batch	Timings
08:04:25 (Tuesday)	Batch 2	9:30am-11:30am
	Batch 3	11:30am-1:30pm
	Batch 1	2:00pm- 4:00pm
09:04:25 (Wednesday)	Batch 3	8:30am-10:30am
	Batch 2	10:30am-12:30pm
	Batch 1	1:00pm-3:00pm
	Valedictory	3:30pm-4:30pm

Report on Two-day Workshop

“Exploring *Drosophila*- Practical Approaches from Handling to Behaviour”

- Date: 08:04:2025 & 09:04:2025
- Name of the resource person: Ms. Beaulah Angel
- Participants: Students of UG Genetics
- Venue: Genetics lab
- Time: 9:00Am-4:00Pm

The Department of Biotechnology and Genetics organized an insightful Two-day Workshop on “Exploring *Drosophila*- Practical Approaches from Handling to Behaviour” 08th and 09th April 2025, titled for undergraduate Genetics students to equip students and with practical skills in handling *Drosophila melanogaster*, a powerful model organism widely used in genetic and biomedical research.

Highlights of the Workshop:

Day 1: Introduction, Handling, and Behavioral Assays

Session 1: History, Handling, and Rearing of *Drosophila*

The workshop commenced with a theoretical overview of the history and scientific contributions of *Drosophila melanogaster* in genetics and developmental biology. Participants were then introduced to practical aspects of fly handling, stock maintenance, and rearing conditions. This included demonstrations on:

- Fly anesthesia techniques
- Identifying males and females
- Preparing standard *Drosophila* culture media
- Fly flipping and sorting

Participants practiced these techniques under supervision, gaining confidence in basic fly lab skills.

Session 2: Vortex Assay

The second session introduced participants to the **vortex assay**, a method used to simulate seizure-like activity in flies. Groups of flies were subjected to mechanical stress using a benchtop vortex mixer. Participants observed the immediate responses and recorded **seizure recovery time**, which is used as a behavioral indicator in neurological studies. This assay emphasized the utility of *Drosophila* in modeling human neurodegenerative and epileptic disorders.

Day 2: Sensory and Molecular Assays

Session 3: Olfactory Assay

This session explored the olfactory behavior of *Drosophila* using a simple yet effective Y-maze setup. Participants learned to collect early third instar larvae and assess their preference toward an odorant (e.g., ethyl acetate) compared to a control. The assay was used to demonstrate how genetic mutations or environmental conditions can influence sensory perception and learning behavior in flies.

Session 4: Study of Immune Response Using GFP Protein

The final session introduced participants to the use of GFP (Green Fluorescent Protein) in studying immune responses in transgenic *Drosophila* lines. After a brief explanation of fluorescence microscopy and filter settings (blue excitation, green emission), participants observed GFP-tagged immune cells under the microscope. This session demonstrated how genetic tools and fluorescent markers enable real-time tracking of immune cell activity and protein expression in live organisms.

The workshop successfully combined theoretical learning with extensive hands-on experience. Participants expressed increased understanding and confidence in working with *Drosophila melanogaster*. They also gained insight into how fruit flies serve as powerful models for studying complex biological processes such as behavior, immunity, and neurological functions.



Students participation in the workshop

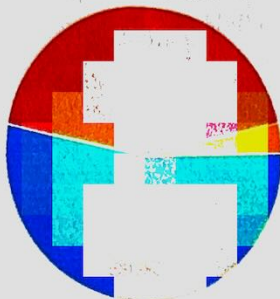


Valedictory programme

Feedback analysis

1. How would you rate the overall organization of the workshop?

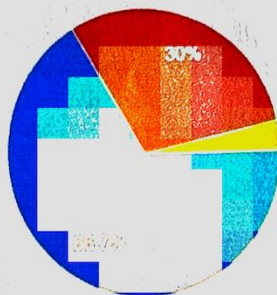
30 responses



● Excellent
● Good
● Average
● Poor

2. How useful was the workshop content for your learning?

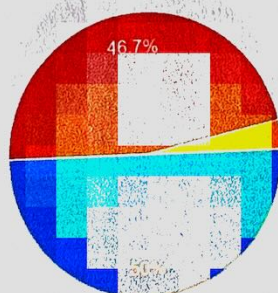
30 responses



● Extremely useful
● Somewhat useful
● Neutral
● Not useful

3. How was the quality of the presentations and demonstrations?

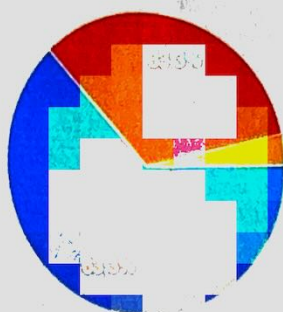
30 responses



● Excellent
● Good
● Fair
● Poor

4. How would you rate the instructor's knowledge and delivery?

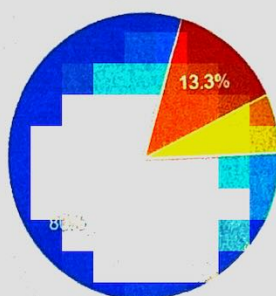
30 responses



- Outstanding
- Good
- Satisfactory
- Needs improvement

5. Were the practical sessions (hands on activities) helpful?

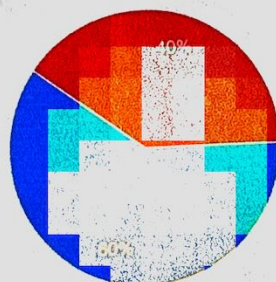
30 responses



- Very helpful
- Somewhat helpful
- Neutral
- Not helpful

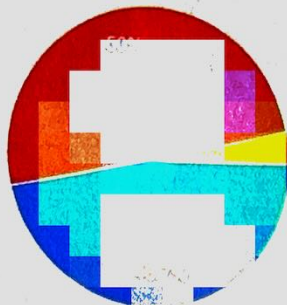
6. How clear and understandable were the workshop materials (handouts, manuals)?

30 responses



- Very clear
- Clear
- Somewhat confusing
- Very confusing

7. What is your overall satisfaction with the workshop?
30 responses



- Very satisfied
- Satisfied
- Neutral
- Dissatisfied

Paritkash

Deaulah


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M.S RAMAIAH COLLEGE OF ARTS, SCIENCE AND COMMERCE-AUTONOMOUS
DEPARTMENT OF BIOTECHNOLOGY AND GENETICS

WORKSHOP ON

"EXPLORING DROSOPHILA-PRACTICAL APPROACHES FROM HANDLING TO BEHAVIOUR"

ATTENDANCE LIST: 8/4/2025

GENETICS LAB

II SEM GENETICS STUDENT LIST

SL NO	Student Name	Signature
1	AADISHREE V MUDAKAVI	Aadishree
✓ 2	ANANYA S	Ananya S.
3	ANIL KUMAR K	
4	ANUSHKA DAYANAND GAJBHARE	
5	ARUSH N CHOUDHURY	
✓ 6	BALAJI GOWDA J K ✓	Balaji
7	HANNAH SURESH	
✓ 8	IKSHITA BHAT	Ikhita
✓ 9	JAMADARKHAN VIJAYA VARDHAN	Vijaya Vardhan
✓ 10	K S SMARAN ✓	Smaran
✓ 11	KAVYA V	Kavya Venkatesh
✓ 12	LEKHANA C	Lekha
✓ 13	MADHUMITHA ASHOK KUMAR	Madhu
✓ 14	MADHURISH KUMAR	Madhuri
✓ 15	MAITHRI S	Maithri S
✓ 16	MUTTAHIRA NOORAIN	Muttahira
17	MYSER TASKEEN	
18	PADMAJA BISWAL	
19	POOJALAKSHMI K S	
✓ 20	PRACHI PANDEY	Prachi
21	PRAJWAL GOWDA M V	
22	RAJNITA DEY	
✓ 23	SANCHITHA N	Sanchitha N
✓ 24	SANDHYA GURU NAYAK	Sandhya
25	SANTOSH KUMAR DALAI	
✓ 26	SAYANTIKA GARAI	Sa
✓ 27	SHAMBHAVI K CHAITHANYA ✓	Shambhavi
✓ 28	SHERIN JENIFER S	Sherin
✓ 29	SHRUTHI K H	Shruthi
30	SINCHANA K	Sinchana
31	SMRUTHI NAGESH	
✓ 32	SNEHA GONAL ✓	Sneha
33	SNEHA SRIDHAR	
34	SYED ISHRAT HANI	
✓ 35	VARSHA N	Varsha
✓ 36	VARSHITHA N	Varshitha N
37	YASHIKA N	
38	AASTHA	
39	NITYA RAVI	

✓ 40	DEEKSHA M	As
41	HARSHINEE	
✓ 42	ANUSHKA BOSE	Anushka Bose.
43	BHUMIKA	
✓ 44	POORNIMA Y H	As
45	YUVRAJ SINGH	

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9	JAMADARKHAN VIJAYA VARDHAN	J. Vijaya Vardhan
10	K S SMARAN	Smaran
11	KAVYA V	Kavya Venkatesh
12	LEKHANA C	
13	MADHUMITHA ASHOK KUMAR	Madhu
14	MADHUR SH KUMAR	Madhu
15	MAITHRI S	Maithri
16	MUTTAHIRA NOORAIN	Muttahira
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27	SHAMBHAVI K CHAITHANYA	Shambhavi
28	SHERIN JENIFER S	Sherin
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31	SMRUTHI NAGESH	
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33	SNEHA SRIDHAR	
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X 4	KORAMUTLA MOHITHA SUSHMA SRI	
5	KM CHINNAMBICKHA	Chinnambikha
6	MONIKA R	Monika . R
7	PRIYA N	Priya
8	TEJASHREE S	Tejashree
9	YUVIKA SARIN	Yuvika
10	ARKAPRABHA DEB	Arkaprabha
11	BHUSHAN BASAVARAJA	Bhushan
X 12	AMINA NAUSHAD	
13	CHINNAVENKAIAHGARI THANUJA	C.Thanuja
14	KUSHI D B	Kushi
X 15	NAKSHATHRA K S	
16	PANTANGI PALLAVI	P. Pallavi
17	RAKSHANDA	Rakshanda
X 18	RAKSHITHA B R	
19	SANJANA L	Sanjana . L
20	SHAILAJA ANANDA KUMAR	Shailaja
X 21	SHRUTI SENGUPTA	
22	SMAKSHI DAS	Smakshi Das
23	SUFYAN AHMED K	Sufyan
24	VIBHASHREE M V	Vibhashree
X 25	ANAQHA PRAVIN	
26	PAVITHRA R	Pavithra
27	Devika . V	Devika

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10	ARKAPRABHA DEB ✓	Arkapr
11	BHUSHAN BASAVARAJA	Bhushan
12	AMINA NAUSHAD	Amin
13	CHINNAVENKAIAHGARI THANUJA	Chinnam
14	KUSHI D B	Kushi
15	NAKSHATHRA K S	Nakshatra
16	PANTANGI PALLAVI	Pallavi
17	RAKSHANDA	Rakshanda
18	RAKSHITHA B R	Rakshitha
19	SANJANA L	Sanjana
20	SHAILAJA ANANDA KUMAR	Shilpa
21	SHRUTI SENGUPTA	Shruti
22	SMAKSHI DAS ✓	Smakshi
23	SUFYAN AHMED K	Sufyan
24	VIBHASHREE M V	Vibhashree
25	ANQAHA PRAVIN	Anqa
26	PAVITHRA R	Pavithra
27	DEVIKA V ✓	Devika

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✓ 4	MOHITHA A	<i>Mohitha A.</i>
5	SREYASHEE BASU	<i>Sreyashee</i>
✓ 6	AKSHITHA PRAKASH	<i>Akshitha</i>
✓ 7	MANISHA KUMARI	<i>Manisha</i>
✓ 8	MANSI SINGH	<i>Mansi</i>
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15	KRISHNAPRIYA M M	
✓ 16	M N BHAVANA	<i>Bhavana</i>
✓ 17	SRI LALITHA HIRANMAI MULA	<i>Sri Lalitha</i>
✓ 18	LAYA N	<i>Laya</i>
✓ 19	NIKITHA B M	<i>Nikitha</i>
✓ 20	TANYA CHIRIPAL S	<i>Tanya Chiripal</i>
✓ 21	MALAVIKA P	<i>Malavika</i>
✓ 22	SIMRA FATHIMA ALI	<i>Simra</i>
23	S RAKESH	
✓ 24	YUKTHA L	<i>Yuktha</i>
✓ 25	STUTI PAREKH	
✓ 26	YADUNAND S MOHAN	<i>Yadunand</i>

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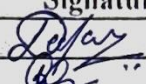
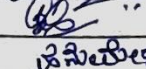
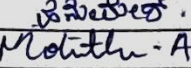
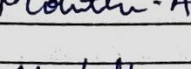
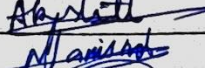
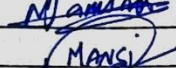
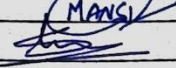
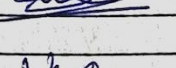
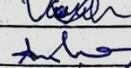
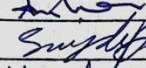
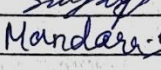
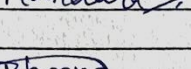
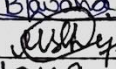
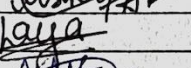
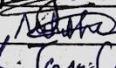
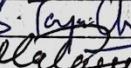
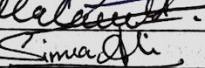
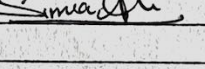
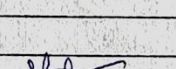
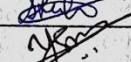
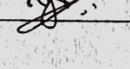
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19	NIKITHA B M	
20	TANYA CHIRIPAL S	
21	MALAVIKA P	
22	SIMRA FATHIMA ALI	
23	S RAKESH	
24	YUKTHA L	
25	STUTI PAREKH	
26	YADUNAND S MOHAN	





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