



REPORT
of
Summer Training
Workshop in Zebrafish Model system
5th - 16th June 2023
Organized by
Zebrafish Lab Facility, Daulat Ram College,
University of Delhi
In
Collaboration with
Sansriti Foundation, Delhi
Submitted To
IQAC, Daulat Ram College



DAULAT RAM COLLEGE UNIVERSITY OF DELHI

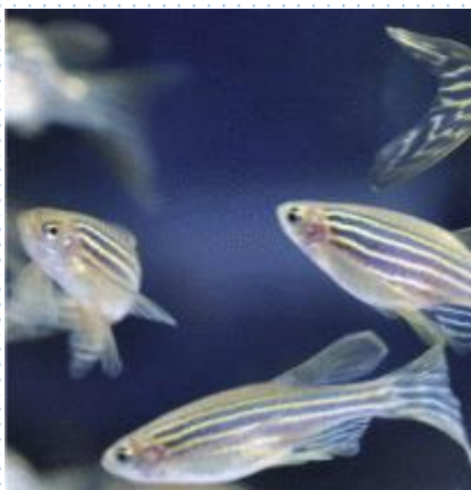
In Collaboration with



Sansriti Foundation, Delhi

Organises

Summer Training Workshop in Zebrafish Model system



Dates: 5th - 16th June 2023

Highlights

- Zebrafish Husbandry, breeding , egg collection
- Study developmental stages of zebrafish embryo
- Perform zebrafish embryo toxicity, behavioral assays
- Zebrafish model organism in Research
- Design experiments and develop hypothesis using zebrafish model system

Certificates will be given to all participants

Contact

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Patron

Prof. Savita Roy
Principal

Advisor

Prof. Sarita Nanda
Vice-Principal &
TIC Dept. of Biochemistry

Convener Workshop

Prof. Padmshree Mudgal

Mentors

Prof. Padmshree Mudgal (Prof. Biochemistry)
Dr. Chitra Bhasin (Assoc. Prof. Zoology)
Dr. Adita Joshi (Director, Sansriti Foundation)
Dr. Radhika Gupta (Asstt. Prof. Biochemistry)

Convener:

Dr. Padmshree Mudgal, Professor
Department of Biochemistry, Daulat Ram College.

Resource Persons:

Dr. Padmshree Mudgal, Professor
Department of Biochemistry, Daulat Ram College.

Dr. Chitra Bhasin, Assoc. Professor (Super Annuated)
Department of Zoology, Daulat Ram College

Dr. Adita Joshi, Sansriti Foundation, Delhi

Dr. Radhika Gupta, Asst. Prof.
Department of Biochemistry, Daulat Ram College

The Summer training Workshop in Zebrafish Model system was inaugurated by Prof. Payal Mago, Director SOL, and Chairperson Skill Development Committee, Delhi University. Special guest of honour, IQAC convenor, Daulat Ram College and Skill Development program Convenor, Daulat Ram College also graced the occasion.

Prof. Payal Mago interacted with students and enlightened them with various entrepreneurship ideas and opportunities that are waiting to be explored. Her talk really enthused the students to think beyond the normal and push the envelope to harness their potential to the maximum.

Day 1, 05/06/23 Monday

- Introduction to zebrafish as a model organism
- Handling of fishes
- Zebrafish husbandary
- Breeding set up
- Observation of zebrafish larvae

Day 2, 06/06/23 Tuesday

- Egg collection
- Observation of eggs
- Lunch box microscope setup
- Basic developmental biology

Day 3, 07/06/23 Wednesday

- Larval stages observation
- Developmental biology

Day 4, 08/06/23 Thursday

- Zebrafish as a Research model

- Setting up Zebrafish Toxicity Assays

Day 5, 09/06/23 Friday

- Toxicity Assays continued
- Zebrafish husbandry, Feed and other requirements

Day 6, 12/06/23 Monday

- Toxicity Assays continued
- Regeneration assays performed
- Experimental design

Day 7, 13/06/23 Tuesday

- Zebra fish RNA isolation, Gel run
- RT-PCR design, Primer design

Day 8, 14/06/23 Wednesday

- Behavioral Assayed performed
- Regeneration results observed

Day9, 15/06/23 Thursday

- Students presented their results of Toxicity assays performed and discussed their results.

Day9, 16/06/23 Friday

- Paper Presentation continued
- Valedictory Function: Vice Principal Prof. Sarita Nanda interacted with the students and gave away the Certificates. Students shared their experiences of the workshop.











Students Participants (23)				
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Parnika joshi	Bsc. (Hons.) Biochemistry	Daulat ram college	8130864322	parnikajsh25@gmail.com

Feed Back Comments

1. The workshop skilled us in a sequential manner.
2. Very nice experience. Can't wait for the next workshop.
3. It was a nice workshop, it came out as great experience i will look further for such more workshops.
4. The workshop was extremely helpful. We actually got to learn about many things. The teachers were super helpful.
I would like to participate in many such workshops.
5. This workshop was very informative and I learned so much about Zebrafish biology and various methods used in experiments related to them. All the teachers and mentors were excellent and they really made the workshop an invaluable experience.
6. The workshop was very insightful. I have learned so much from the workshop. I'll be looking forward to such workshops in future.
Very detailed and intensive knowledge was imparted while also encouraging research and research related qualities along with great mentors to guide
Everyday we have learnt something new... it felt like a jist and accumulation of all knowledge and experience of our professors being transferred to us. We got a feel of research and actually felt like researchers!
7. It would be great if the day of toxicity assay could be extended as we got a chronic toxic whose effect is only shown 5-7 dpf. Otherwise it was a great workshop and was worth the stay.
We all got hands on experience with the model organism. Along with that we were able to gain a lot of knowledge about science and technology nowadays. The teachers were very friendly and helped in every possible thing during the workshop. My experience personally was great.
I have attended many workshops but this one was the most planned and organised workshop. The faculty behind this workshop was very nice and had a great way of making us understand the procedure of the workshop. The

workshop was very interactive and they had all the equipments.

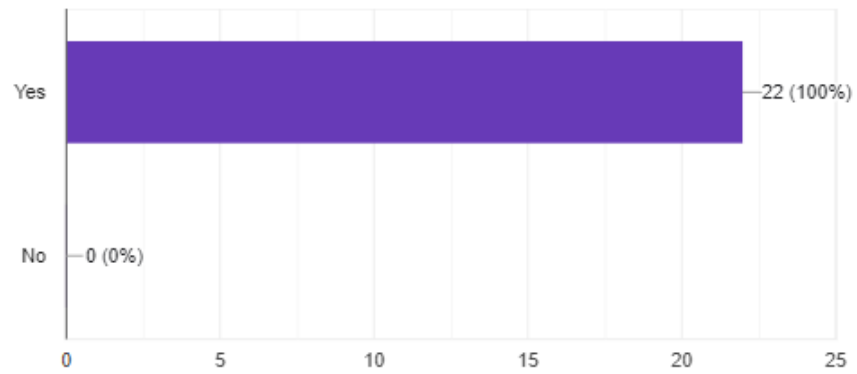
8. Along with us getting the knowledge and learning the way to handle zebrafish and to perform research on, it was fun session of 10 days. I would recommend them to conduct more of these type of workshops in every holiday.

9. I personally wanted to understand how we develop zebrafish models in context of infectious diseases and what are the limitations involved.

Did the workshop meet your expectation

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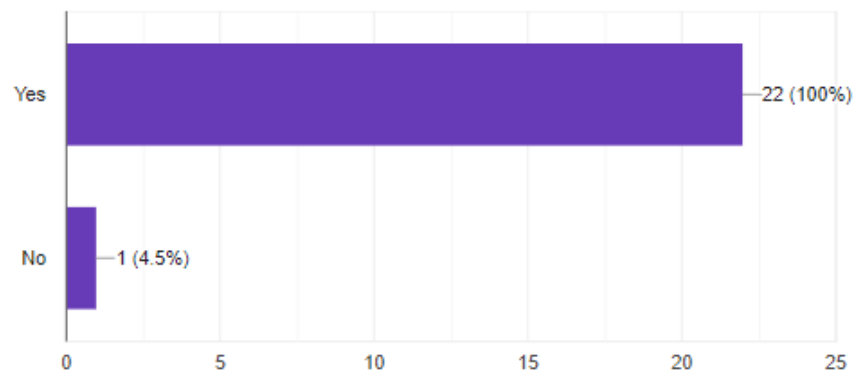
22 responses



Are you satisfied with the content of the workshop

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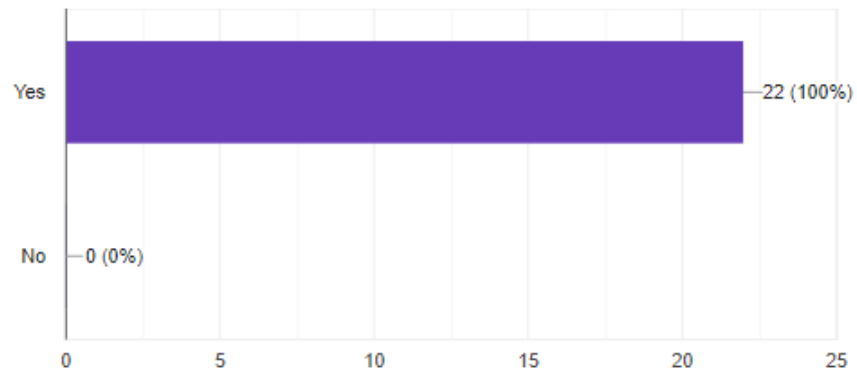
22 responses



Are you satisfied with the hands on training provided in the workshop

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22 responses



would you recommend such workshops to your colleagues

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22 responses

