



**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

**DATE:31.12.2021**

**DEPARTMENT OF PHARMACOLOGY**  
**REPORT**

**WORKSHOP ON ZIBRA FISH AS A EXPERIMENTAL MODEL**

**VENUE: SEMINAR HALL**

**DATED:31/12/2021**

**RESOURCE PERSONS:**

**1. Dr.V.Suresh, M.PHARM, Ph.D.,**

PROFESSOR, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
KOMARAPALAYAM

**2. Mr.G.Thamotharan., M.PHARM.,**

ASSOCIATE PROFESSOR, JKKMMRF'S ANNAI JKK SAMPOORANI AMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.

No. of students enrolled: 263

**No. of students certified in our institution :17**

No. of students certified: 258

**Objective**

Zebrafish has become a prominent vertebrate model for understanding pathophysiology of disease and has already contributed to several examples of successful phenotype-based drug discovery. These soft skill development program provides additional knowledge to the students other than their academic knowledge.

**Learning outcomes:**

- Provides knowledge on Zebrafish as a model for drug discovery platform.
- Identify potential issues with Zebrafish animal model.
- It Provides More Effective biomarker in pathophysiology of disease

Programme  
Co-ordinator

**Dr. N.SENTHILKUMAR,**  
PRINCIPAL

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU, INDIA.



HOD

Principal

**Dr. N. SENTHILKUMAR,**  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirmedu, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

REF.NO: JKKM/PP-/REQ/0000/001

Date: 01/11/2021

From

Department of Pharmacology  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.  
Komarapalayam, Namakkal [Dist]  
Tamil Nadu, PIN:638183.

To

The Principal,  
JKKMMRF'S Annai JKK Sampoorani Ammal College of Pharmacy.  
Komarapalayam, Namakkal [Dist]  
Tamil Nadu, PIN:638183.

Respected Sir,

Subt: Requesting permission to conduct orkshop on **Zibra fish as a experimental model** regarding:-

With due respect, we kindly request you to grant us permission to conduct a seminar on **15/12/2021 to 16/12/2021** in the topic **Workshop on Zibra fish as a experimental model**. We believe this will be informative session and useful for our students.

Kindly consider the above, we will be grateful to you sir.

Thank you

Yours sincerely,

  
**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.**





**J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY**

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

**DEPARTMENT OF PHARAMACOLOGY**

**CIRCULAR**

**2021**

This is inform to the students that the following soft skill development course can be conducted by the Department of Pharmacology, JKKMMRF'S ANNAI JKK SAMPOORANIAMMAL COLLEGE OF PHARMACY, KOMARAPALAYAM and it will be commenced as per the schedule:

Course Name	Date	FN	AN	Venue	Resource Person
Seminar on Zibra fish as a experimental model	15/12/2021 to 16/12/2021	IV B.PHARM	II B.PHARM	SEMINAR HALL	Dr.V.Suresh & Mr.G.Thamotharan

All the above-mentioned students must enroll and actively participate in the course without fail.

**NOTE:** Certificates should be issued to all the students after completion of the course and examination.

**Dr. N.SENTHILKUMAR,**  
**PRINCIPAL**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT. TAMILNADU. INDIA.**



**PRINCIPAL**

**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.**



**JKKMMRF'S JKK ANNAI  
SAMPOORANIAMMAL COLLEGE OF  
PHARMACY  
DEPARTMENT OF PHARMACOLOGY**

**Workshop on Zibra fish as a  
experimental model**

**RESOURCE PERSONS**

**1. DR.V.SURESH, M.PHARM, PH.D.,  
PROFESSOR, JKKMMRF'S ANNAI JKK  
SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.**

**2. MR.G.THAMOTHARAN., M.PHARM.,  
ASSOCIATE PROFESSOR, JKKMMRF'S ANNAI  
JKK SAMPOORANIAMMAL  
COLLEGE OF PHARMACY, KOMARAPALAYAM.**

**DATE : 15/12/2021 to 16/12/2021**

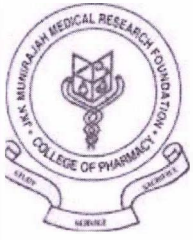
**VENUE: SEMINAR HALL**

Made with PosterMyWall.com

**Dr. N. SENTHILKUMAR,  
PRINCIPAL,**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.**





# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, **B.Komarapalayam** – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## WORKSHOP ON ZIBRAFISH AS AN EXPERIMENTAL MODEL

**DATE :15/12/21 - 16/12/21**

**Providing a participation seminar certificate to the students**



**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**  
**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION**  
**ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,**  
**ETHIRMEDU, KOMARAPALAYAM - 638 183.**  
**NAMAKKAL DISTRICT. TAMILNADU.**



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## Workshop on Zibra fish as a experimental model

### Introduction

This is a two day workshop intended to help you understand the use of zebrafish (*Daniorerio*) models in scientific research and to provide training in development of zebrafish models. The workshop includes introductory lectures on zebrafish models and hands-on practical sessions on induction of zebrafish models.

Zebrafish has become a prominent vertebrate model for understanding pathophysiology of disease and has already contributed to several examples of successful phenotypebased drug discovery. By combining the scale and throughput of in vitro screens with the physiological complexity of animal studies, the zebrafish promises to contribute to several aspects of the drug development process including target identification, disease modelling, lead discovery and toxicology

### Objectives

- Demonstrate a hands on method in using zebrafish as a discovery platform
- Make zebrafish models as per the latest industry and research trends
- Read end points from zebrafish model to discover market fit drugs

### Exploratory-Based Models

Zebrafish behavioral assays are currently used for high-throughput phenotyping and testing of various psychotropic drugs. A popular method of behavioral analysis in zebrafish research is the novel tank test, conceptually similar to the open field test used for rodents, which exhibit anxiety-like behavior by staying close to the walls (thigmotaxis), but increase exploration as they become acclimated to the new environment. Similarly, exposure to a novel environment evokes a robust anxiety response in zebrafish, as they dive to the bottom (geotaxis) until they feel safe to swim in the upper regions of the tank. Typical endpoints in this test include the latency to enter the top, the number of transitions to the top, time spent in top, top:bottom time ratio, the number of fear/escape-like erratic movements, as well as freezing frequency and duration.

### Zebrafish habituation behavior

Relevant to both exploration and emotionality, habituation is the simplest form of learning, and has long been used to examine animal cognitive phenotypes. Habituation to novelty represents attenuation of innate behaviors, as subjects become accustomed to the environment. Intra-session habituation reflects spatial working memory, whereas inter-session habituation is commonly used to assess middle- and longterm spatial memory. Despite being widely studied in various rodents, habituation has not been extensively evaluated in zebrafish until recently



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
NAMAKKAL DISTRICT, TAMILNADU.



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## SEMINAR FEEDBACK FORM

STUDENT NAME:

DATE: 15/12/2021-16/12/2021

YEAR/ COURSE :

NAME OF THE WORKSHOP:

COURSE CODE:

DURATION:

**EVALUATE HONESTLY:**

Questions	Excellent	Good	Fair	Poor
The objectives of the training were				
The instructor's contribution to the course was:				
The presentation materials were relevant				
The instructor's effectiveness in teaching the subject matter was:				
Answers to the students questions by the instructor				
The venue was appropriate for the event				
Course organisation was:				
Level of course was				
Course content was:				

### Student Participation

1. On average, how many hours a week did you spend on this course (in and out of class)?  
A) 0-2 B) 2-5 C) 6-10 D) 11-14 E) 15UP
2. What grade do you expect in this course?  
A) BELOW 50% B) 50-60% C) 60-70% D) 70-80% E) ABOVE 80%



SIGNATURE

**Dr. N. SENTHILKUMAR,**  
PRINCIPAL,  
JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944


## STUDENT FEEDBACK FORM

NAME OF STUDENT:  
COURSE:  
SEMINAR TOPIC:

REGISTRATION NO:  
YEAR & SEMESTER:  
DATE & TIME:

1. Overall, how satisfied were you with this seminar?
  - Very satisfied
  - Satisfied
  - Neutral
  - Dissatisfied
  - Very dissatisfied
2. How clear were the ideas and concepts we presented?
  - Extremely clear
  - Very clear
  - Moderately clear
  - Not very clear
  - Not at all clear
3. What percentage of the information was new to you?
  - 100%
  - 75%
  - 50%
  - 25%
  - 0%
4. How informative did you find our seminar?
  - Extremely Informative
  - Very Informative
  - Moderately Informative
  - Not very informative
  - Not informative at all



  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



5. Were there any technical issues that prevented you from seeing or hearing the seminar?

Yes

No

6. Would you like to learn more about this topic?

Yes

No

7. Rate the content of the slides/virtual aid?

Extremely clear

Very clear

Moderately clear

Not very clear

Not at all clear

8. How accurate was the session description?

Extremely clear

Very clear

Moderately clear

Not very clear

Not at all clear

9. How did the session compare to your expectations?

Excellent

Good

Fair

Poor

Not at all clear

10. How Would you rate the content of the seminar?

1

2

3

4

5

Student Name With Signature



Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedi, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## STUDENTS FEEDBACK ANALYSIS

DATE: 16/12/2021-

S.NO	QUESTION DESCRIPTION	ANSWERS	MARKS	TOTAL MARKS
1	Satisfaction	Very satisfied	5	5
		Satisfied	3	
		Neutral	2	
		Dissatisfied	1	
		Very dissatisfied	0	
2	Clarity	Extremely clear	5	5
		Very clear	4	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
3	Percentage of the information was new	100%	5	5
		75%	4	
		50%	3	
		25%	2	
		0%	1	
4	Informative	Extremely Informative	5	5
		Very Informative	3	
		Moderately Informative	2	
		Not very informative	1	
		Not informative at all	0	
5	Technical issues	Yes	5	5
		No	0	
6	Like to learn more about this	Yes	5	5




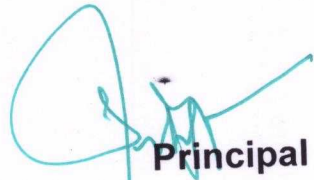
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.

	topic	No	0	
7	Rate the content of the slides/virtual aid	Extremely clear	5	- 5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
8	Accuracy of the sessions	Extremely clear	5	5
		Very clear	3	
		Moderately clear	2	
		Not very clear	1	
		Not at all clear	0	
9	Session expectations	Excellent	5	5
		Good	3	
		Fair	2	
		Poor	1	
		Not at all clear	0	
10	Rate the content of the seminar	1	1	5
		2	2	
		3	3	
		4	4	
		5	5	

**Total marks = 50**

  
**Head Of the Department**

  
**Principal**

**Dr. N. SENTHILKUMAR,**  
**PRINCIPAL,**  
**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION,**  
**ANNAI JKK SAMPOORANI ANIMAL COLLEGE OF PHARI**  
**ETHIRMEDU, KOMARAPALAYAM - 638 183.**  
**NAMAKKAL DISTRICT, TAMILNADU.**





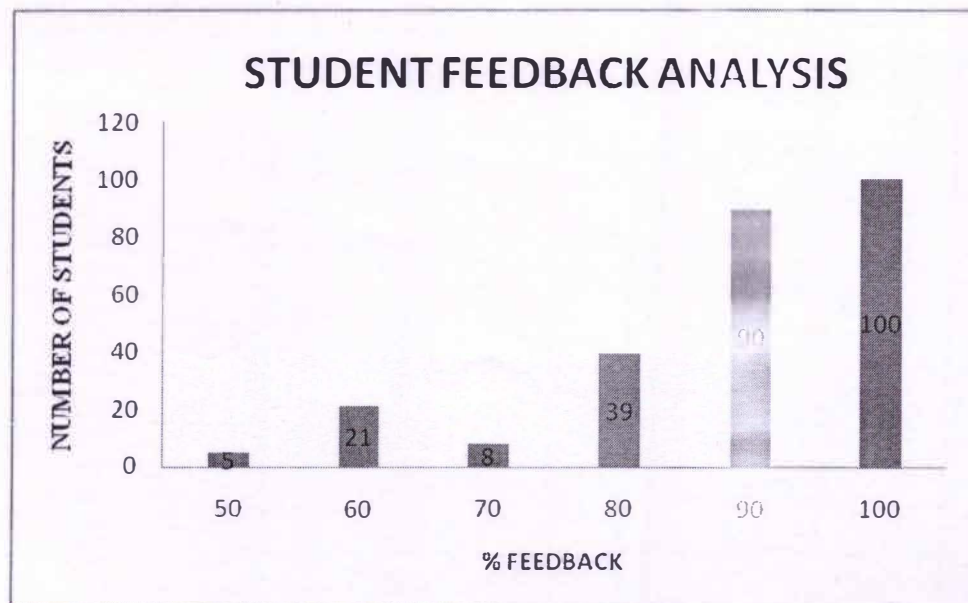
# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## REPORT SUMMARY

### Feedback Question Analysis – Question Asked-Feedback Rating

1.Satisfaction	6.Like to learn more about this topic
2.Clarity	7.Rate the content of the slides/virtual aid
3. Percentage of the information was new	8.Accuracy of the sessions
4.Informative	9.Session expectations
5.Technical issues	10.Rate the content of the seminar



**Dr. N. SENTHILKUMAR,**  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



# J.K.K.MUNIRAJAH MEDICAL RESEARCH FOUNDATION'S ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY

Ethirmedu, B.Komarapalayam – 638 183, Namakkal Dist. Tamilnadu. India  
Approved by : Pharmacy Council of India, New Delhi & The Tamilnadu Dr.M.G.R Medical University, Chennai.  
Website : [www.jkkmmrfpharmacy.edu.in](http://www.jkkmmrfpharmacy.edu.in) | E-Mail : [principal@jkkmmrfpharmacy.edu.in](mailto:principal@jkkmmrfpharmacy.edu.in)  
Contact No. : +919789456750, +919943069944, +919943066944

## LIST OF PARTICIPANTS

1	VARUNKUMAR S	SEM-III
2	VEERAYUVARAJ P *	SEM-III
3	VENKATESH G	SEM-III
4	VENKATESH S	SEM-III
5	VIGNESH K *	SEM-III
6	VIGNESH R	SEM-III
7	VIGNESHWARAN R *	SEM-III
8	VIJAY R *	SEM-III
9	VISHWA S	SEM-III
10	YASAR ARAFATH H	SEM-III
11	ARULKUMAR G	SEM-III
12	BALAMURUGAN S	SEM-III
13	HEMAVARSHINY K	SEM-III
14	KANNAN M	SEM-III
15	KARTHIK K	SEM-III
16	LOKESH R	SEM-III
17	NAVEENKUMAR M	SEM-III

  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAL JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183,  
NAMAKKAL DISTRICT, TAMILNADU.



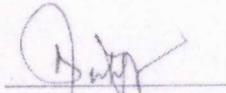
JKKMMRF'S Annai JKK Sampoorani Ammal  
college of Pharmacy, Komarapalayam

Department of Pharmacology  
Workshop




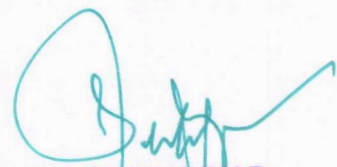
Certificate of Participant

Has appreciated for his / her participation in the Workshop on  
Zibra fish as a experimental model organized by the department  
of Pharmacology on (15.12.2021  
to 16.12.2021).

  
convenor



  
Organizational  
secretary



**Dr. N. SENTHILKUMAR,  
PRINCIPAL,**

**JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.**



JKKMMRF'S Annai JKK Sampoorani Ammal  
college of Pharmacy, Komarapalayam

Department of Pharmacology  
Workshop



Certificate of Participant

YASAR PRABACH. H

Has appreciated for his / her participation in the Work Shop on  
Zibra fish as a experimental model organized by the department  
of Pharmacology on (15.12.2021  
to 16.12.2021).

convenor



Organizing  
secretary

Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.



JKKMMRF'S Annai JKK Sampoorani Ammal  
college of Pharmacy, Komarapalayam

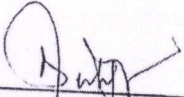
Department of Pharmacology  
Workshop




Certificate of Participant

KANNAN, M

Has appreciated for his / her participation in the Work Shop on  
Zibra fish as a experimental model organized by the department  
of Pharmacology on (15.12.2021  
to 16.12.2021).

  
convenor



  
Organizing  
secretary

  
Dr. N. SENTHILKUMAR,  
PRINCIPAL,

JKK MUNIRAJAH MEDICAL RESEARCH FOUNDATION  
ANNAI JKK SAMPOORANI AMMAL COLLEGE OF PHARMACY,  
ETHIRMEDU, KOMARAPALAYAM - 638 183.  
NAMAKKAL DISTRICT, TAMILNADU.