



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## DEPARTMENT OF ZOOLOGY

**Title : CHALLENGES IN HEALTH SCIENCE RESEARCH**

**Date :08.02.2024**

**Resource Person/s : 1. Dr. Kar Muthumani, Chief Scientific Officer,  
GeneOne Life Science Inc. Pennsylvania, USA**

**2. Dr. R.Paramasivan, Scientist G, ICMR –  
Vector Control Research Centre, Madurai.**

**3. Dr. P. Sundaresan, Senior Scientist,  
Molecular Genetics, Aravind Medical Research  
Foundation, Aravind Eye Hospital, Madurai**

**4. Dr. G. Kumaresan, Professor & Head,  
Department of Genetics, School of Biological Science,  
Madurai Kamaraj University, Madurai.**

**No. of Participants: 195(130+65)**

**Focus on : Entrepreneurship**

**Report:** The Zoology Association (ZOA) of PG Department of Zoology, Fatima College organized a One Day Seminar on Challenges in Health Science Research on 08.02.2024. Dr. N. Malathi and Dr. N. Nagarani, Assistant Professors, Department of Zoology were the Organizing Secretaries. Dr. Antony Amala Jayaseeli, Head & Assistant Professor, Department of Zoology, Fatima College, Madurai welcomed the gathering. **Rev. Dr. Sr. M. Francisca Flora, The Secretary, Fatima College, Madurai**, delivered the Inaugural address. In her inaugural address, Rev. Dr. Sr. M. Francisca Flora justified the theme of the seminar as there are many new emerging diseases in the fast moving world.

The Keynote address was given by **Dr. Kar Muthumani, Chief Scientific Officer, GeneOne Life Science Inc. Pennsylvania, USA** on the



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topic 'Understanding the immune system and its response to Vaccines & Therapeutics'. He highlighted the key mechanisms used by the immune system to respond to invading microbes and other exogenous threats. He also discussed the challenges and solutions in the use of Vaccines.

The technical session II was presided over by **Dr. R.Paramasivan, Scientist G, ICMR – Vector Control Research Centre, Madurai**. He highlighted the re-emergence of viral diseases that are transferred through vectors like mosquitoes, scrub-typhus, tick insects etc. He also narrated the biology, causes, symptoms and medical intervention for Dengue fever, Chikungunya virus, West Nile virus, and Zika virus. The current developments in the vaccine production using synthetic peptides was also discussed.

The post-lunch session started with a lecture by **Dr. P. Sundaresan, Senior Scientist, Molecular Genetics, Aravind Medical Research Foundation, Aravind Eye Hospital, Madurai** on the topic Ocular Genes and Gene Therapy. He explained how mutations causes various eye diseases at the early and later stages of life. So far 575 genes have been associated with eye diseases. He shared his own research experience of using Tyr gene as a diagnostic tool for Albinism even in the foetus.

The technical session IV was taken over by **Dr. G. Kumaresan, Professor & Head, Department of Genetics, School of Biological Science, Madurai Kamaraj University, Madurai**. He delivered a lecture on Development in Biomedical Genomics. He mentioned that not only the gene mutations but also the alterations in chemical groups attached with DNA associated proteins like histones causes cancer.

Around 200 students from various Colleges in and around Madurai enthusiastically participated in the seminar. Dr.N.Nagarani, Assistant Professor, Department of Zoology, Fatima College, delivered the Vote of thanks.



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**12.45 P.M: LUNCH BREAK**

**1.45 P.M: SESSION III**  
**Ocular Genes and Gene Therapy**  
**Dr. P. Sundaresan**  
Senior Scientist  
Molecular Genetics  
Aravind Medical Research  
Foundation  
Aravind Eye Hospital  
Madurai

**3.00 P.M: SESSION IV**  
**Development in Biomedical Genomics**  
**Dr. G. KUMARESAN**  
Professor & Head  
Dept. of Genetics  
School of Biological Sciences  
Madurai Kamaraj University  
Madurai

**4.00 P.M: VALEDICTION**



**REGISTRATION FORM**

Name: \_\_\_\_\_

Course: \_\_\_\_\_

College Name: \_\_\_\_\_

Mode of Payment: \_\_\_\_\_

Signature of the Student: \_\_\_\_\_

Signature of HOD \_\_\_\_\_

**REGISTRATION FEE**

- Students, Research Scholar and Staff  
Registration fee Rs 200/-.
- Registration fee includes working lunch, refreshment and certificate.
- Student Participants should bring their College ID.

**CONTACT & PAYMENT DETAILS**

9942502456 (WhatsApp & G-Pay)  
zoology@fcmdu.edu.in

**FATIMA COLLEGE (AUTONOMOUS)**  
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MARY LAND, MADURAI - 625018



**DEPARTMENT OF ZOOLOGY**

**FEBRUARY 8, 2024**

**ONE DAY SEMINAR  
ON  
CHALLENGES IN HEALTH  
SCIENCE RESEARCH**



**VENUE: JUBILEE HALL**

**ABOUT THE INSTITUTION**

Fatima College (Autonomous), Maryland, Madurai is the Post Graduate College for Women affiliated to Madurai Kamaraj University. It is a Catholic Minority Institution established and run by St. Joseph's Society of Madurai (of the Congregation of the Sisters of St Joseph of Lyons, France) The College was started in 1953. It was upgraded into a Post graduate college in 1964 and Autonomous in 1990. The College now offers 21 under graduate programmes, 14 Post graduate programmes and 2 Professional Programmes, 6 Departments have become Research Centres. It has strength of 3956 students. The comprehensive assessment by NAAC re-accredited the College with A++ Grade in 2021 - 2022.

**ABOUT THE DEPARTMENT**

The Department of Zoology was established in the year 1957. The Department offers Under Graduate and Post Graduate courses in Zoology. The vision of the Department of Zoology is to empower women through biological education. The objective of the Department of Zoology is to ensure quality education by offering skill based programme and render entrepreneurial training to make the students employable. The department has infrastructure facilities to promote higher studies and research. The Department was funded by DST CURIE (2022-2027) and DST FIST (2023-2028).

**PATRON**

Rev. Dr. Sr. M. Francisca Flora  
*Secretary*

Rev. Dr. Sr. G. Celine Sahaya Mary  
*Principal*

**CONVENER**

Dr. Antony Amala Jayaseeli  
Head & Assistant Professor  
Department of Zoology

**ORGANIZING SECRETARIES**

Dr. N. Malathi  
9894012095

Dr. N. Nagarani  
9942502456

**ORGANIZING COMMITTEE**

Dr. A. Tamil Selvi  
Dr. J. Asnet Mary  
Dr. Sr. Biji Cyriac  
Dr. V. Bharathy  
Dr. S. Barathy  
Dr. J. Thelma  
Ms. M. Annie Jose Leoni

**PROGRAMME AGENDA**

**9.00 A.M : REGISTRATION**

**9.30 A.M: INAUGURATION**  
Rev. Dr. Sr. M. Francisca Flora  
Secretary  
Fatima College (Autonomous),  
Madurai

**10.00 A.M: SESSION I**  
*Understanding the Immune system  
and its response to Vaccines  
& Therapeutics*  
Dr. Kar Muthumani, Ph. D.  
Chief Scientific Officer  
GeneOne Life Science Inc.  
Pennsylvania, USA

**11.30 A.M: TEA BREAK**

**11.45 A.M: SESSION II**  
*Emerging and re-emerging  
vector borne diseases:  
The Indian Scenario*  
Dr. R. Paramasivan  
Scientist G  
ICMR-Vector Control Research  
Madurai





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**Dr. Antony Amala Jayaseeli Head, Department of Zoology delivering the Welcome Address**

## List of Student Participants

S. No	ROLLNO	STUDENT NAME
1	2021Z01	ABISRI M
2	2021Z02	AMIRTHAVARSHINI S
3	2021Z04	BRINDHA S
4	2021Z05	DAISY DAYANA J
5	2021Z06	GAYATHRI M
6	2021Z08	JOTHI PRIYA M
7	2021Z09	K JENCY POULIN MARY
8	2021Z10	K SUSMITHA
9	2021Z11	KAREN S
10	2021Z14	NAGAJOTHI S
11	2021Z16	RAHILA BANU S
12	2021Z19	SELVI E



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13	2021Z20	SETHU RAMYA M
14	2021Z21	SHANMATHY S
15	2021Z22	SNEKA A
16	2021Z24	SUBANU S
17	2021Z25	VASHNI ABIYA J
18	2021Z26	YAZHINI S
19	2021Z27	YUVATHI S
20	2021Z28	VARSHINI G
21	2021Z30	BHAVANI K
22	2021Z31	HARINI K
23	2021Z32	NARMATHA M
24	2021Z33	PANDI SELVI M
25	2021Z34	SANGEETHA P
26	2021Z35	SANTHIYA M
27	2021Z36	SINDHUJA C
28	2021Z37	SRIRATHI NANDHIJA M
29	2021Z38	VIYAGULA DEEPTHI D
30	2021Z42	S SUREKHA
31	2021Z43	ANITHA C
32	2021Z45	DHANAMAYILPRIYA S
33	2021Z46	RINSI A
34	2021Z47	MATHAVA PRIYA B
35	2021Z49	YUVARANI.K
36	2021Z50	PREETHA.S
37	2019Z02	ANUMITHA S
38	2022Z01	ABINAYA R
39	2022Z03	AISASHITHIKKA N



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40	2022Z04	AKSHAYA V
41	2022Z05	BALASUBETHA R
42	2022Z08	DHANU SRI S
43	2022Z09	DHANUSHA R
44	2022Z10	HARENE A
45	2022Z13	JANANI SHREE K
46	2022Z14	JEEVANA T
47	2022Z15	KANNIGA R
48	2022Z16	KARTHIGA G
49	2022Z17	KARTHIGA SELVI S
50	2022Z18	KAYALVIZHI M
51	2022Z19	LAKSHMIPRIYA T
52	2022Z20	LICY WINSLET S
53	2022Z21	MADHUMITHA S
54	2022Z22	MANIMEGALAI V
55	2022Z23	MEENAMBA A
56	2022Z24	MERFIN L
57	2022Z25	MINI PRIYA M
58	2022Z26	NANDHINI A
59	2022Z27	NITHI SHREE P
60	2022Z28	PANDISELVI M
61	2022Z30	PREKSHITHA GAYATHRI P
62	2022Z31	PRIYADHARSHINI M
63	2022Z32	RENUKAA G
64	2022Z33	RISVANA FATHIMA A
65	2022Z34	ROSHIKA P
66	2022Z35	SANDHIYA T
67	2022Z37	SELASTIN BEAULA J
68	2022Z38	SHALINI R





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69	2022Z41	SOWJANYA M
70	2022Z42	VINOVA M L
71	2022Z43	YAZHINI P
72	2022Z44	SASMITHA ASMI R
73	2022Z45	GLADYS P
74	2022Z46	JASMINE C
75	2023Z01	AAFREEN BANU A
76	2023Z02	ABARNA M
77	2023Z03	ABHI NANDINI M
78	2023Z04	AFRIN JALEELA A
79	2023Z05	AMSAVENI A
80	2023Z06	APRASANA S
81	2023Z08	DHARANI S
82	2023Z09	DHARMA DEVI K
83	2023Z10	DHARSHINI M
84	2023Z11	DHIVYA DHARSHINI S
85	2023Z13	DIVYA DHARSHINI A
86	2023Z14	DIVYA R
87	2023Z15	GOKULAVARSHNI R
88	2023Z16	HARSHANA V
89	2023Z17	HARSHINI P
90	2023Z18	ISHWARYA P
91	2023Z20	JANANI K
92	2023Z21	KANJANA S
93	2023Z22	KAVIYA C
94	2023Z23	KAVIYA G
95	2023Z25	LIDIYA KELLAR E
96	2023Z26	LOGAMANO A



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97	2023Z27	MAHA DHARSHINI S
98	2023Z28	MARIA JEROVINA J
99	2023Z29	MERLIN M
100	2023Z30	NAMITHA R
101	2023Z32	RAMALAKSHMI M
102	2023Z33	RAMALATH NISHA A
103	2023Z35	RUTHRA DEVI M
104	2023Z36	SANGEETHA S
105	2023Z38	SHALINI R
106	2023Z39	SHARMILA B
107	2023Z40	SUBA SHREE S
108	2023Z41	VAISHALI LAKSHMI PRIYA T
109	2023Z42	VIJI R
110	2023Z43	VINOBA JOYCE K
111	2023Z44	VISHALI R
112	2023Z45	RAMYA B
113	2023Z46	AKILA K
114	2023Z47	KALIESWARI M
115	2022MSCZ01	AKSHAYA TS
116	2022MSCZ02	ANJUGAM P
117	2022MSCZ03	ANTONETTE SIENA P
118	2022MSCZ04	HIMALINI K
119	2022MSCZ05	JEMIMA GLADY P
120	2022MSCZ06	MERCILIN P
121	2022MSCZ07	SARASWATHI B
122	2022MSCZ08	SATHYARANI L
123	2022MSCZ09	THAHSIN BANU S





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124	2022MSCZ10	VARALAKSHMI K
125	2022MSCZ11	YOGESHWARI G
126	2022MSCZ12	REXLINE SHEEBA S
127	2023MSCZ01	AISWARYA M
128	2023MSCZ02	SANGEETHA T
129	2023MSCZ03	TAMILSELVI A
130	2023MSCZ04	MARIA HAILY H

## List of outside participants

S.No	Name	Name of the Institution
1.	Ramya S	Sri Meenakshi Govt Arts and Science College for Women, Madurai Dept. of Zoology
2.	Jeyasri B	
3.	Bhuvaneswari B	
4.	Narmadha S	
5.	Karthika J	
6.	Praveena V	
7.	Jeyashree M	
8.	Karima M	
9.	Jayabharathi M	
10.	Shalini Srinithi S	
11.	Mohana M	
12.	Keerthika S	
13.	Keerthika P	
14.	Dhivya Bharathi P	
15.	Yoha Bala R	
16.	Gobika M	
17.	Kavipriya R	
18.	Keerthana V	
19.	Thasleem Fathima N	
20.	Maya Siva Sakthi S	
21.	Vijayalakshimi N	
22.	Thamarai Selvi K	
23.	Gowri C	
24.	Muthulakshmi B	
25.	Hemalatha M	



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26.	Kaviya T	
27.	Deepika M	
28.	Surya K	
29.	Nandeeswari M	
30.	Dr. M. Kalaiarasi	
31.	Meeakshi Sundareswaran P	MSS Wakf Board College Dept. of Zoology
32.	Pandiyarajan G	
33.	Sarathy Pandi A	
34.	Oli Mohamed M	
35.	Dr. K.Durai Kannu	
36.	Dhanu Prakash M	The American College Dept. of Zoology
37.	Jaswanth Raj P	
38.	Prasanna R	
39.	Muthukumar P	
40.	Srinivasan D	
41.	Ganapathi M	
42.	Paramanandam N	
43.	Mukilan S	
44.	Prakash Raj	
45.	Veeramani S	
46.	Gokula Shrimon B	
47.	Shree M	
48.	Santhose Kumar S	
49.	Vishnu M	
50.	Prasanna Raja M	
51.	Yuvaraj R	
52.	Kingston William C	
53.	Kanmani K. M	Jamal Mohamed College Dept. of Zoology
54.	Joel Bright J. P	Ayyan nadar Janaki Ammal College – Sivakasi Dept. of Zoology
55.	Chellapandi S	
56.	Gokulanathan S	
57.	Thiruveni T	E.M. G. Yadhava College Dept. of Zoology
58.	Arriya S	
59.	Saranya S	
60.	Archana N. J	



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61.	Jabeen J	Yadava College for Men Dept of Microbiology
62.	Dr. S. Kasthuri Rengamani	Yadava College for Men Dept of Botany
63.	Dr. T. Rathinakumar	Vivekananda College, Thiruvudagam
64.	Arun S	
65.	Ananth B	

## Name list of Staff

S.NO	NAMES
1.	Dr. A. Tamil Selvi
2.	Dr. Antony Amala Jayaseeli
3.	Dr. N. Malathi
4.	Dr.Sr.Biji Cyriac
5.	Dr.J.Asnet Mary
6.	Dr. V. Bharathy
7.	Dr. N. Nagarani
8.	Dr. S. Barathy
9.	Mrs. J. Thelma
10.	Mrs. Annie Jose Leoni

*Antony Amala Jayaseeli*  
Signature of the HOD  
**Dr. ANTONY AMALA JAYASEELI**  
Associate Professor and Head,  
Department of Zoology,  
Fatima College (Autonomous),  
Madurai-625 018.