



FATIMA COLLEGE

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Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)
Mary Land, Madurai - 625018, Tamil Nadu

ZOOLOGY

Title : Webinar on Stem Cell Biology

Date : 9.05.2022

Resource Person : 1. Dr. I.R. Oviya
Assistant Professor
Department of Sciences
Amrita VishwaVidyapeetham
Chennai Campus
(Alumna Batch 2003-2006)
2. Dr. S. Gracy Jenifer
Assistant Professor
Department of Biotechnology
School of Bio & Chemical Engineering
Sathyabama Institute of Science &
Technology, Chennai
(Alumna Batch 2009-2012)

No. of Participants : 140

Focus on : **Research Methodology**

Outcome : Through this program students are motivated to do research.

Report : Dr. I.R. Oviya, Department of Sciences, Amrita VishwaVidyapeetham, Assistant Professor, Chennai Campus highlighted the Computational Approaches in Stem Cell Biology and Dr. S. Gracy Jenifer, Assistant Professor, Department of Biotechnology, School of Bio & Chemical Engineering, Sathyabama Institute of Science & Technology, Chennai, spoke on Targeting Cancer Stem Cells to overcome Therapeutic Resistance. They also motivated students to take up research on Stem Cell.



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INVITATION



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PG Department of Zoology

Organizes a Webinar on
STEM CELL BIOLOGY
May 9, 2022

Session I	Session II
Time: 3.00 p.m – 4.00 p.m Computational Approaches in Stem Cell Biology	Time: 4.00 p.m – 5.00 p.m Targeting Cancer Stem Cells to overcome Therapeutic Resistance
Resource Person Dr. I .R. Oviya Assistant Professor Department of Sciences Amrita Vishwa Vidyapeetham Chennai Campus (Alumna Batch 2003-2006)	Resource Person Dr. S. Gracy Jenifer Assistant Professor Department of Biotechnology School of Bio & Chemical Engineering Sathyabama Institute of Science & Technology, Chennai (Alumna Batch 2009-2012)
Patrons Dr. Sr. M. Francisca Flora Secretary Dr. Sr. G. Celine Sahaya Mary Principal	Organizing Committee Dr. Antony Amala Jayaseeli Dr. N.Malathi Dr. Sr. Biji Cyriac Dr. V. Bharathy Dr. N.Nagarani Dr. S. Barathy Ms. J. Thelma Ms. T. Rino Dr. K. Manimegalai
Convener Dr. A. Tamil Selvi Assistant Professor & Head Department of Zoology	No Registration Fee E Certificate will be provided
Meeting ID: http://meet.google.com/ymx-pzqq-kns	Registration link: https://forms.gle/mmWkjQ2NrYUrnabv7



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Photo with caption

Dr. I. R. OVIYA is presenting

- Embryonic stem cell Cells derived from very early in development, usually the inner cell mass of a developing blastocyst. These cells are self-renewing (can replicate themselves) and pluripotent (can form all cell types found in the body).
- Pluripotent stem cells Stem cells that can become all the cell types that are found in an implanted embryo, fetus or developed organism. Embryonic stem cells are pluripotent stem cells
- Induced pluripotent stem (iPS) cell Induced pluripotent cells (iPS cells) are stem cells that were engineered ("induced") from non-pluripotent cells to become pluripotent. In other words, a cell with a specialized function (for example, a skin cell) that has been "reprogrammed" to an unspecialized state similar to that of an embryonic stem cell
- Mesenchymal stem cells Mesenchymal stem cells were originally discovered in the bone marrow, but have since been found throughout the body and can give rise to a large number of connective tissue types such as bone, cartilage and fat.
- Multipotent stem cells Stem cells that can give rise to several different types of specialized cells, but in contrast to a pluripotent stem cell, are restricted to a certain organ or tissue types. For example, blood stem cells are multipotent cells that can produce all the different cell types that make up the blood but not the cells of other organs such as the liver or brain.

Handwritten notes: *reprogrammed*, *pluripotent*, *reprogrammed*

Participants: Dr. I. R. OVIYA, Sharmila Devi. M Assistan..., Zoology Dept., Dr.K. Umasankar, 2021Z30 BHAVANI K, 19 others, You

Dr. I. R. OVIYA is presenting

Lineage potential

Stem cell potency

Reprogramming

Capable of giving rise to all cell types of body and extra-embryonic tissues

Capable of giving rise to all cell types of body

Capable of giving rise to all cell types of a particular tissue or organ

Not capable of giving rise to other cell types

Participants: 2021Z09 K JENCY POULI..., 2021Z30 BHAVANI K, 2021Z35 SANTHIYA M, abarna raman, ajith ajith, Deepu Rajasekar, Dr. I. R. OVIYA, Dr. I. R. OVIYA Presentation, You



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Jenifer S is presenting

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 **SATHYABAMA**
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Targeting cancer stem cells to overcome therapeutic resistance

Dr. Gracy Jenifer S
Department of Biotechnology
School of Bio and Chemical Engineering
Sathyabama Institute of Science and Technology
Chennai - 600119

Email: gracyjenifer.biotech@sathyabama.ac.in

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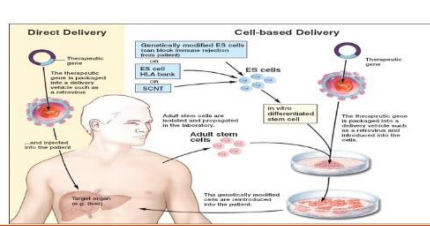
meet.google.com/ymx-pzqq-kns?pli=1&authuser=2

Jenifer S is presenting

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Stem cell Gene Therapy

- Gene therapy is the use of nucleic acid polymers as a drug to treat disease by therapeutic delivery into a patient's cells, where they are either expressed as proteins, interfere with the expression of proteins, or possibly even correct genetic mutations.
- The most common form of gene therapy involves using DNA that encodes a functional, therapeutic gene to replace a mutated gene. In gene therapy, the nucleic acid molecule is packaged within a "vector", which is used to get the molecule inside cells within the body.
- Specific surface markers allow the identification and enrichment of hematopoietic stem cells from a mixed population of bone marrow or peripheral blood cells.



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List of Participants

S. No.	Reg. No.	Name	Class
1.	2020MSCZ01	Anu R	II M.Sc. Zoology
2.	2020MSCZ02	Geetha A	II M.Sc. Zoology
3.	2020MSCZ03	HarshiniPriya S	II M.Sc. Zoology
4.	2020MSCZ04	Monisha M	II M.Sc. Zoology
5.	2020MSCZ05	Naga Shalini M	II M.Sc. Zoology
6.	2020MSCZ06	Prinita J	II M.Sc. Zoology
7.	2020MSCZ08	Rajalakshmi B	II M.Sc. Zoology
8.	2020MSCZ09	Shalini N	II M.Sc. Zoology
9.	2020MSCZ10	Sweatha P	II M.Sc. Zoology
10.	2020MSCZ11	Varshini S	II M.Sc. Zoology
11.	2020MSCZ12	Yafiya S	II M.Sc. Zoology
12.	2021MSCZ01	AntoshinyBrijitha. B	I M. Sc Zoology
13.	2021MSCZ03	KirubaRoobala. A	I M. Sc Zoology
14.	2021MSCZ04	Pavithra. R	I M. Sc Zoology
15.	2021MSCZ05	Smitha. E V	I M. Sc Zoology
16.	2019Z01	P. Antonetteseina	III B.Sc. Zoology
17.	2019Z03	M. Chithradevi	III B.Sc. Zoology
18.	2019Z04	J. Devi subbulakshmi	III B.Sc. Zoology
19.	2019Z05	M. Dhanalakshmi	III B.Sc. Zoology
20.	2019Z07	R. B. Gopikaa	III B.Sc. Zoology
21.	2019Z08	V. Gowri	III B.Sc. Zoology
22.	2019Z09	X. Infant rubitha	III B.Sc. Zoology
23.	2019Z10	P. Jemima glady	III B.Sc. Zoology
24.	2019Z11	P. Karthika	III B.Sc. Zoology
25.	2019Z12	V. Keerthana	III B.Sc. Zoology
26.	2019Z13	R. S. Keerthika	III B.Sc. Zoology
27.	2019Z14	M. Kowsika	III B.Sc. Zoology
28.	2019Z15	P. Lakshmi devi	III B.Sc. Zoology
29.	2019Z16	S. Lavanya	III B.Sc. Zoology
30.	2019Z18	P. Mercilin	III B.Sc. Zoology
31.	2019Z19	P. Nagalakshmi	III B.Sc. Zoology
32.	2019Z21	S. Nivetha	III B.Sc. Zoology
33.	2019Z22	R. Pavithradevi	III B.Sc. Zoology
34.	2019Z23	M. Priyadharshini	III B.Sc. Zoology
35.	2019Z24	M. Priyanka	III B.Sc. Zoology
36.	2019Z25	S. Ramya	III B.Sc. Zoology
37.	2019Z26	G. Rathika	III B.Sc. Zoology
38.	2019Z28	S. Rexlinesheebha	III B.Sc. Zoology



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39.	2019Z29	J. Roobini	III B.Sc. Zoology
40.	2019Z30	A. Sahaya shalini	III B.Sc. Zoology
41.	2019Z31	B. Sakthidharshini	III B.Sc. Zoology
42.	2019Z33	B. Saraswathi	III B.Sc. Zoology
43.	2019Z34	R. Sathya	III B.Sc. Zoology
44.	2019Z36	M. Sivanandhini	III B.Sc. Zoology
45.	2019Z38	S. Subarnikarathna	III B.Sc. Zoology
46.	2019Z39	S. Thahsinbanu	III B.Sc. Zoology
47.	2019Z40	K. Varalakshmi	III B.Sc. Zoology
48.	2019Z41	N. Vijayalakshmi	III B.Sc. Zoology
49.	2019Z43	R. Vishali	III B.Sc. Zoology
50.	2019Z44	G. yogeshwari	III B.Sc. Zoology
51.	2019Z45	A. Anish fathima	III B.Sc. Zoology
52.	2019Z47	K. Himalini	III B.Sc. Zoology
53.	2020Z01	Abinaya.S	II B.Sc Zoology
54.	2020Z04	Bharathi.S	II B.Sc Zoology
55.	2020Z06	Chitraselvi.K	II B.Sc Zoology
56.	2020Z07	DhivyaBharathi.K	II B.Sc Zoology
57.	2020Z08	Gayathri.J.C.	II B.Sc Zoology
58.	2020Z09	HariAbinaya.M	II B.Sc Zoology
59.	2020Z10	Harshini.M	II B.Sc Zoology
60.	2020Z11	Kamali.S	II B.Sc Zoology
61.	2020Z13	KarthikaDevi.M	II B.Sc Zoology
62.	2020Z15	Lalithavarshini.R	II B.Sc Zoology
63.	2020Z16	Madhubala.K	II B.Sc Zoology
64.	2020Z18	Maria Haily.H	II B.Sc Zoology
65.	2020Z20	Nandhana.M	II B.Sc Zoology
66.	2020Z21	Narmatha.N	II B.Sc Zoology
67.	2020Z23	Preethi.M	II B.Sc Zoology
68.	2020Z24	PrinciLisa.S.	II B.Sc Zoology
69.	2020Z26	Rajalakshmi.M	II B.Sc Zoology
70.	2020Z27	RasheenAroshmi.B S	II B.Sc Zoology
71.	2020Z28	Sangeetha.T	II B.Sc Zoology
72.	2020Z29	Saranya.A	II B.Sc Zoology
73.	2020Z30	ShammimaBanu.H	II B.Sc Zoology
74.	2020Z31	ShanmugaPriya.A	II B.Sc Zoology
75.	2020Z34	Srimathi.C	II B.Sc Zoology
76.	2020Z36	Swetha Sibyl Jeniffer.S	II B.Sc Zoology
77.	2020Z37	Tamilselvi.A	II B.Sc Zoology
78.	2020Z38	Tejaswini.P. J	II B.Sc Zoology
79.	2020Z39	Varsha.M	II B.Sc Zoology
80.	2020Z41	Naveena.A	II B.Sc Zoology
81.	2021Z01	Abisri M	I B.Sc Zoology



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82.	2021Z02	Amirthavarshini S	I B.Sc Zoology
83.	2021Z04	Brindha S	I B.Sc Zoology
84.	2021Z05	Daisy Dayana J	I B.Sc Zoology
85.	2021Z06	Gayathri M	I B.Sc Zoology
86.	2021Z08	JothiPriya M	I B.Sc Zoology
87.	2021Z09	JencyPoulin Mary K	I B.Sc Zoology
88.	2021Z10	Susmitha K	I B.Sc Zoology
89.	2021Z11	Karen S	I B.Sc Zoology
90.	2021Z12	Medona J	I B.Sc Zoology
91.	2021Z14	Nagajothi S	I B.Sc Zoology
92.	2021Z16	RahilaBanu S	I B.Sc Zoology
93.	2021Z19	Selvi E	I B.Sc Zoology
94.	2021Z20	SethuRamya M	I B.Sc Zoology
95.	2021Z21	Shanmathy S	I B.Sc Zoology
96.	2021Z22	Sneka A	I B.Sc Zoology
97.	2021Z24	Subanu S	I B.Sc Zoology
98.	2021Z25	VashniAbiya J	I B.Sc Zoology
99.	2021Z26	Yazhini S	I B.Sc Zoology
100.	2021Z27	Yuvathi S	I B.Sc Zoology
101.	2021Z28	Varshini G	I B.Sc Zoology
102.	2021Z30	Bhavani K	I B.Sc Zoology
103.	2021Z31	Harini K	I B.Sc Zoology
104.	2021Z32	Narmatha M	I B.Sc Zoology
105.	2021Z33	PandiSelvi M	I B.Sc Zoology
106.	2021Z34	Sangeetha P	I B.Sc Zoology
107.	2021Z35	Santhiya M	I B.Sc Zoology
108.	2021Z36	Sindhuja C	I B.Sc Zoology
109.	2021Z37	SrirathiNandhija M	I B.Sc Zoology
110.	2021Z38	ViyagulaDeepthi D	I B.Sc Zoology
111.	2021Z42	Surekha S	I B.Sc Zoology
112.	2021Z43	Anitha C	I B.Sc Zoology
113.	2021Z45	DhanamayilPriya S	I B.Sc Zoology
114.	2021Z46	Rinsi A	I B.Sc Zoology
115.	2021Z47	MathavaPriya B	I B.Sc Zoology
116.	2021Z49	Yuvarani K	I B.Sc Zoology
117.	2021Z50	Preetha S	I B.Sc Zoology

S.N o.	Sal uta tion	Name of the participan t	Designati on	Depart ment	Name of the Institution	Place	State
118.	Dr.	BARATHI NIVAS A	Assistant Professor	Zoology	Yadava college	Madurai	Tamil nadu



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119.	Dr.	M. A. Soniya	Assistant Professor	Zoology	E. M. G. Yadava women's college	Madurai-	Tamil nadu
120.	Mr s.	Sheema KK	Research scholar	Botany	Government Arts College	Udhagaman dalam	Tamil Nadu
121.	Mr s.	G. Sona	Assistant Professor	Biotechn ology	V. V. Vanniaperum al College for Women	Virudhunag ar	Tamil nadu
122.	Mr.	L.D AJITHKU MAR	Student	Zoology	The American College	Madurai	Tamil nadu
123.	Mr.	Vishnu	Student	Zoology	The American College	Thallakulam	Madur ai
124.	Mr s.	Santhiya	Student	B.SC microbi ology	Vpmm college	Kirusnanko vil	Thami lnadu
125.	Dr.	K.Karthig a	Assistant Professor	Researc h centre of HomeSc ience	Fatima college (Autonomou s)	Madurai	Tamil nadu
126.	Mr s.	J.Josephin eJesintha	Assistant Professor	Depart ment of Home Science	Fatima College (Autonomou s), Madurai	Madurai	Tamil nadu
127.	Mr.	P. DEEPAK RAJASEK AR	Research scholar	Zoology	University of Madras	Chennai	Tamil Nadu
128.	Mis s.	Aarthi.A	Research scholar	Zoology	University of madras	Chennai	Tamil nadu
129.	Mr s.	D MOUNA	Assistant Professor	Home Science	Fatima College Autonomous	Madurai	Tamil nadu
130.	Mis s.	R. ABARNA	Research scholar	Depart ment of Zoology	V.H.N.S.N College (Autonomou s),	Virudhunag ar	Tamil nadu
131.	Mis s.	NivethaM uthu Ganesh	Student	Biotechn ology	The Madura College	Madurai	Tamil Nadu



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132.	Mr s.	Sherin Rebecca	Assistant Professor	Zoology	JayarajAnnap ackiam collegtonomo us) Periyakulam	Periyakulam	Tamil nadu
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133.	Mr s.	M.Sharmiladevi	Assistant Professor	Biotechnology	VVV College for Women	Virudhunagar	Tamilnadu
134.	Mr s.	R. Stella Ruby	Other	Zoology	SBOA Matric Hr Sec School	Madurai	Tamil Nadu
135.	Dr.	Jacintha Josephine Julie P	Assistant Professor	Sociology and Social Work	Fatima College Autonomous	Madurai	Tamil Nadu
136.	Mis s.	Lavanya	Other	Molecular Genetics	PrimeGen Healthcare Laboratories private limited	MADURAI	Tamilnadu
137.	Mis s.	D. Subashini	Student	Microbiology	Valliammai women's college of arts and science	Arakandanallur	Tamilnadu
138.	Mis s.	Vennila.J	Research scholar	ZOOLOGY	University of madras	Chennai	Tamilnadu
139.	Mr s.	S.Sharmila	Assistant Professor	Zoology	E.M.G.Yadava women's college	Madurai	Tamilnadu
140.	Dr.	G.Indira rani	Associate Professor	Zoology	EMG Yadava Women's College, Thiruppalai Madurai	Madurai	Tamil Nadu

Signature of the HOD

seal

Dr. A. TAMIL SELVI

Head, Dept. of Zoology

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