

## ZOOLOGY DEPARTMENTAL ACTIVITIES OF 2018-2023

S.NO	DATE	ACTIVITIES
1.	26-10-2018	Field visit to sericulture farm at Vikarabad
2	01-02-2020	Field visit to Aqua culture farm at Karimnagar
3	23-05-2020	Webinar on stem cell
4	01-03-2021	Snake show – Snakes our Friends or foes
5	03-03-2021	World wild Life Day
6	20 -07-2021 21-03-2021	Virtual National Seminar on Genetics New Challenges
7	12-11-2022	Animal welfare club and Pet show
8	21-11-2022	National fisheries Day
9	14-12-2022	Field Visit to Pocharam World Life Sanctuary
10	30-01-2023 To 04-01-2023	Faculty Development Program in Molecular and Cytogenetic Techniques Molecular and Cytogenetic Techniques.
11	24-02-2023	National Science day

## **1.A FIELD VISIT TO SERICULTURE FARM**

The Department of Zoology organized, Visit to sericulture Farm At Vikarabad on 26.10.2018.



This field trip made awareness among students about the economic importance and suitability of sericulture in Indian Condition.

Students learned various technologies involved in Sericulture , and hands – on training on Mulberry nursery management, silkworm rearing , and silk reeling.





From this field trip, Students acquired knowledge and develop skill in silkworm rearing and silkworm farming.

## 2.FIELD VISIT TO AQUACULTURE

The Department of zoology, arranged the field visit to aquaculture farm at Karimnagar on 01/02/2020





This field trip has given an insight view about fisheries and Technology. Students learned to self design and Management of fish farm and practical knowledge of fish breeding and development.

# 3. WEBINAR ON STEM CELLS AND ITS APPLICATIONS.

From this webinar students gained knowledge about stem cells.

Stem cells replace cells damaged by chemotherapy or disease or serve as a way for the donar's immune system to fight some types of cancers and blood related diseases such as Leukemia, Lymphoma, Neuroblastome and multiple myeloma.

The image shows a promotional poster for a webinar on the left and a screenshot of the webinar interface on the right.

**Webinar Poster:**

- SARAJINI NAIDU VANITA MAHAVIDYALAYA** (Sponsored & Managed jointly by Orissa Graduates' Association and Exhibition Society) Exhibition Grounds, Nampally, Hyderabad. Ph-04024603266 NAAC Accredited (3<sup>rd</sup> Cycle)
- Department of Zoology presents Webinar on **Stem Cells and their Applications**
- Date: 23-05-2020, Time: 4:00 to 5:00 PM
- Resource Person: **Dr. B. Kiran Kumar**, Scientist, CCMB
- Dr. Srivani Sesham, Head, Department of Zoology, Convener, Ph: 9885668195
- Dr. D. Shobhana, Principal
- YouTube Link: <https://youtu.be/w9VrmR5kY-w>

**Webinar Screenshot:**

- Participants: Shobhana Deshpande, Kachragu S, Dr. Kiran Kumar, Dr. S. Shyam.
- Topic: **Stem Cells and their Applications**

The image shows two presentation slides from the webinar.

**Slide 1: What are stem cells?**

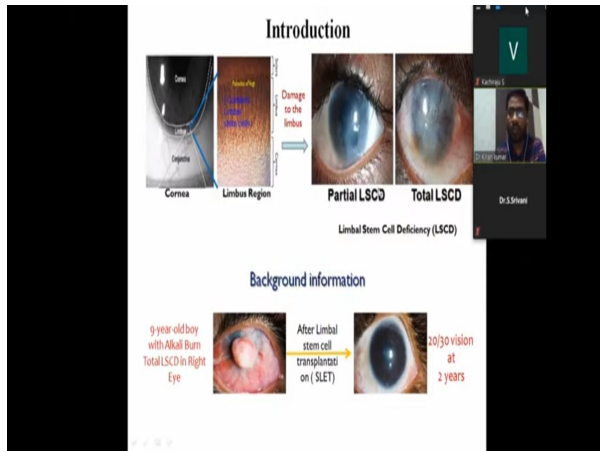
- the body is made up of about 200 different kinds of specialised cells such as muscle cells, nerve cells, fat cells and skin cells
- all cells in the body come from stem cells
- a stem cell is a cell that is not yet specialised
- the process of specialisation is called differentiation
- once the differentiation pathway of a stem cell has been decided, it can no longer become another type of cell on its own

**Slide 2: Induced pluripotent stem cells (iPSC)**

- Can create stem cells directly from a patient.
- Can be maintained indefinitely in the laboratory
- Pluripotent with similar properties to ESCs

The diagram illustrates the process of generating iPSCs from a patient's skin biopsy. It shows the use of transcription factors (Klf4, Sox2, Oct4, c-Myc) to reprogram somatic cells into pluripotent stem cells. These iPSCs can then be differentiated into various cell types, such as neurons, for disease-specific drug screening or transplantation of genetically matched healthy cells back into the patient.

Image source: Robinson DA, Daley DJ. Nature 2012; 481: 295-305.



## 4.SNAKE SHOW

### SNAKES – OUR FRIENDS OR FOES.

>Students had a great experience of learning different kinds of snakes, their habitat and venomous and non venomous qualities that snakes exhibit on 01/03/2021



---> Friends OF Snakes society members provided enormous information on how to identify dangerous snakes which can harm us including the steps to be followed to rescue from the same.



## **5. WORLD WILD LIFE DAY**

Department of zoology conducted essay writing competitions on occasion of world wild life day...on 03-03-2021.



Students gained knowledge about wild life and their importance in maintaining balance of ecosystem.

Students learned the importance of every species has a unique life value. It is the fundamental duty for every citizen to protect and improve the natural environment including forest and wild life.



Genetics research studies, how individual genes or groups of genes are Involved in health and diseases. Understanding genetic factors and genetic disorders is important in learning more about promoting health and preventing disease.

## 7. ANIMAL WELFARE CLUB AND PET SHOW.

Department of Zoology organised animal Welfare Club and conducted pet show on 12-11- 22.



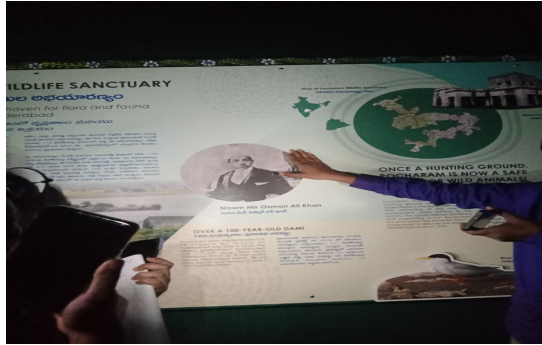




The aim of fisheries education is to develop skills and enhancing fish production through resources utilisation, modern culture systems applying modern harvesting and post harvesting techniques marketing as well as social advancement of the fishing community.

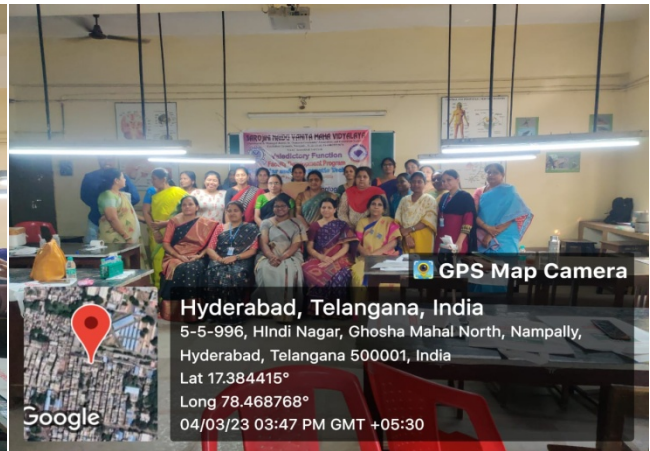
## 9.FIELD VISIT

The department of Zoology visited to pocharam wildlife sanctuary on 14-12-2022.



## 10.FACULTY DEVELOPMENT PROGRAM.

Department of Zoology organised faculty development programme on molecular and cytogenetic techniques... From 30 January to 4th February 2023.





# REPORT OF PROGRAM UNDER MOU

## FACULTY DEVELOPMENT PROGRAM IN COLLABORATION WITH CYTOMAL LABS

Department of Zoology organised faculty development programme on molecular and cytogenetic techniques... From 30 January to 4th February 2023.





Hyderabad, Telangana, India  
5-5-996, Hindi Nagar, Ghosha Mahal North,  
Nampally, Hyderabad, Telangana 500001, India  
Lat 17.384448°  
Long 78.468793°  
04/03/23 03:40 PM GMT +05:30



Hyderabad, Telangana, India  
5/5/902, Hindi Nagar, Ghosha Mahal North,  
Nampally, Hyderabad, Telangana 500001, India  
Lat 17.384508°  
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02/03/23 02:13 PM GMT +05:30

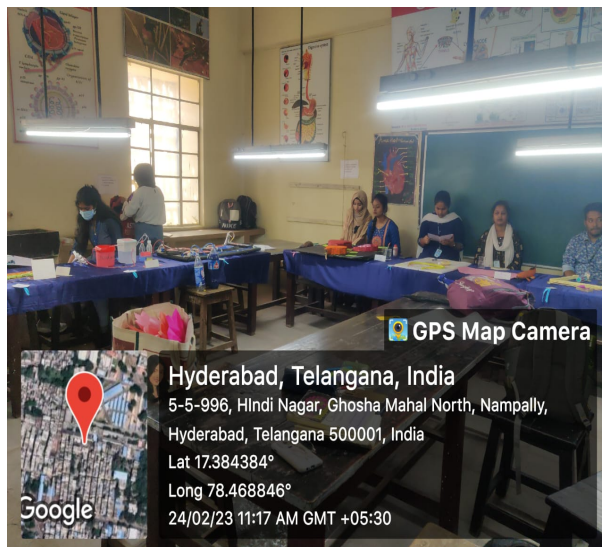
Department of zoology conducted essay writing competitions on occasion National Science day. 28-2-2023



Hyderabad, Telangana, India  
5-5-852, Hindi Nagar, Ghosha Mahal North, Nampally,  
Hyderabad, Telangana 500001, India  
Lat 17.384509°  
Long 78.468855°  
24/02/23 12:11 PM GMT +05:30



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Nampally, Hyderabad, Telangana 500001, India  
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24/02/23 12:13 PM GMT +05:30



To encourage the students to develop an interest in and understand the importance of Science.