

## Government Degree College for Women , Nalgonda

### Department of Microbiology

#### A Brief Report on Study visit

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Places – 1. CCMB , Tarnaka  
2. Department of Microbiology , OU

Dt :31.1.2020

**Objectives :** To experience the advanced research methods particularly gene sequencing methods used to identify the species of life forms on the earth.

To inculcate the scientific temper among the students to pursue higher studies

To gain & enrich the knowledge in microbial science & biotechnological innovations .

To equip with the developing technology & equipment which are used to view the minute details of life forms

To update theoretical knowledge in a practical view .

A Study tour was conducted by the Department of Microbiology to all the students of Microbiology of I , II & III B. Sc on 31.1. 2020 to CCMB ( center for cellular & Molecular Biology ), Habsiguda ,Hyderabad & to the Department of Microbiology , Osmania university , Hyderabad .Total of 50 students from the groups of MBC , MZC & MBZ were attended & accompanied by Smt. K. Devavani , Incharge Department of Microbiology & J. Swamy , Asst . Prof of Zoology obtaining the prior permissions from from Director , CCMB communicating through mail & from the institute Principal , Dr. Ghanshyam by submitting the letter.

The faculty along with the students reached CCMB by 10.30am and were directed to visitors hall by Dr. BV Ramakrishna Rao ,Public relations officer of the organization .

The students watched a short film about CCMB, its establishment , the research activities by the scientists & the initiative of LaCONES for the conservation of endangered species. Later they had a wonderful presentation on microbial life starting from the view points of what is science , concept of origin of life on earth from single cellular organisms to creation of life in the laboratory using the genetic material that is

modified to generate GMOs ( genetically modified organisms) in all species of plants , animals & microbes.

The lecture was excellent by the scientist Dr . G.S.N Reddy and ended with questioning the students to explore the things that need to be found ,with an advice to take up research .

The students were permitted to visit the labs to view the various equipments of gene sequencing from basic PCR ( Polymerase Chain reaction) to an advanced NGS ( next generation sequencing ) and the principles were explained by junior research scientists .The students had seen the various types of microscopes including TEM (Transmission electron Microscope) and the procedures for section processing.

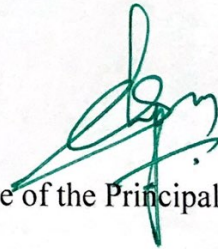
The visit was completed in the organization by 2.15 pm & came out for lunch . After having lunch the students visited the Department of Microbiology , Osmania university by 3 .15 pm .the students interacted with Dr. Bheema , Associate Professor, HOD Of Microbiology and had a discussion of career opportunities in microbiology after graduation. The students were taken to visit the labs accompanied by research scholar , were explained about the ongoing research work on Probiotics , PGPM (plant growth promoting microorganisms) & fermentation technology . Students had seen the apparatus used for biochemical techniques such as TLC(Thin layer chromatography) , HPLC( High performance liquid chromatography) ,Antibiotic sensitivity tests & large scale Bioreactor .

The visit in the labs of Microbiology , OU was completed by 5 pm and returned to homes with an enriching experience from the visit.



Signature of the Incharge

Department of Microbiology



Signature of the Principal

Govt .Degree College for women ,

Nalgonda.

S.No.	Name of the student	Group	Amount	Signature
I Bsc				
1.	K. Renu sri	I	300/-	Renu
2	A. Yamini	I	300/-	
3	(K. Pallavi) Sariya	I	300/-	
4	Dharani	I	300/-	Dharani
5	Laxmya	I	300/-	
6	*Hooriya	I	300/-	
7	Shahistha	IMBZ	300/-	Shahistha
8	Munazza Khalim	I	300/-	Munaza
9	Divya	I	300/-	Divya
II Bsc				
1	K. Renuka	II	300/-	Renuka
2	(K. Nithya) K. Vani	II	300/-	K. Vani
3	B. Sai chaitanya	II	300/-	Ssichaitanya
4	K. Pranathi	II	300/-	K. Pranathi
5	K. Srividya	II	300/-	K. Srividya
6	M. Akshaya	II	300/-	Akshaya
7	K. Pranathi	II	300/-	Pranathi
8	J. Ashwani	II	300/-	Ashwani
9	A. Shiva Rani	II	300/-	Navya
10	R. Navya	II	300/-	Navya
11	K. Navya	II	300/-	Navya
12	Ch. Pavani	II	300/-	Pavani
13	S. Parvitha	II	300/-	
14	M. Usha	II	300/-	Usha
15	M. Ruthe	II	300/-	Ruthe
16	N. Soujanya	II	300/-	Soujanya
17	G. Sai Sri	II	300/-	
18	A. Uma	II	300/-	Uma
19	V. Prasanna	II	300/-	Prasanna

S.No	Name of the student	Group	Amount	Signature
20	N. Yamuna	II	300/-	Lamya
21	M. Sandhya	II	300/-	M. Sandhya
22	P. Rhadika	II	300/-	P. Radhika
23	Malika	II	300/-	Malika
24	S. Nanditha	II	300/-	Nandini
25	G. Sumitha	II	300/-	Sumitha
26	A. Prathyusha	II	300/-	Prathyusha
27	Firdose	II	300/-	
28	Y. Andumathi	II	300/-	
29	V. Tejasvi	II	300/-	Tejasvi
30	D. Geeta	II	300/-	Geeta
31	M. Sweta	II	300/-	Swetha
32	P. Sweta	II	300/-	P. Swetha
<u>III BSC</u>				
1	K. Chandana	III MBC	300/-	chandana
2	G. Neelima	III	300/-	Neelima
3	P. Chaitanya	III	300/-	chaitanya
4	V. Pooja	III	300/-	Pooja
5	M. Manesha	III	300/-	Manesha
6	Swathi	III MBC	300/-	Swathi
	Priyanka	II MBC	300/-	Priyanka
	Jyothi	II MBC	300/-	Jyothi

Feed back

1. Shashitha Jabbari:

I went to CCMB (Center for Cellular Microbiology) with my colleagues. I felt very good and we have come to know very new thing and techniques. We have known the definition of science. And when we have known the difference between the techniques thing we have known the chick and egg story. It was an amazing used. And known in CCMB.

Shashitha

2. CH Lavanya

We all went for CCMB on 31/2/20. And after entering the research centre they instructed the rules and then we saw demo on CCMB. Then after electron microscope was seen in that centre. And there are also different microscope. Mostly I learned information on DNA finger printing. And also we can see different types of machines which work on gene therapy. And I felt happy and learn information what happens in CCMB.

~~3.~~

3. Divya:

I went to CCMB (Central for cellular microbiology) in this cemb I learn DNA polymerase and why the kidney stones formed by nanobacterium. And also some main bases. And know why they were starting to invite the medicine for common virus. And again DNA finger prints. And also, what is the use of it. DNA finger print, they daily do, 300 members of DNA. And radiocesium also. We come some knowledge for the going this trip.

M. Divya

4. Munnazza Khatoun:

I went to CCMB [Center for Cellular Microbiology] with my colleagues. We have seen the short demo of CCMB. And a scientist named Dr. G. S. N. Reddy showed some slides. And explained about the evolution. I come to know about the no. of cells in humans. As they are 37-2 Trillion and as about the human body microbes are 100 Trillion. And human passing Genomes = 23000 Genes. I felt very good in CCMB. There was an amazing moments in CCMB.  
- Munnazza Khatoun.

5. Dhruvini:

I went to CCMB [Center for cellular Microbiology] with my classmates, sister and mam, sir and after entering the CCMB we are seen painting. I learn DNA polymerase and why the kidney stones formed by nanobacterium.

And after electron microscope was seen in that cemb centre cemb we have seen the short demo of cemb. Scientist named

Dr. G. S. N. Reddy. I felt very good and learn information what happened in cemb trip

D. Dhruvini

6. M. Usho

We the students of M.C.S. M.C.B. went to field trav CCMB located at Tharadaka. Seeing such a research area with more knowledge such scholars explanation related to the equipment there is wonderful. It is very good IQ gaining to students

to visit such places. There the research person explained us about different types of microscopes their uses. Also explained about DNA sequencing we understood very well.

M.usha

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Government Degree College for Women, Nalgonda  
Department of Microbiology

Study visit to CCMB

Date - 31.1.2020

No of students - 50

Faculty - K. Devavani, HOD, Department of MB

• CCMB Visit on 31-01-2020



Students inside the CCMB at entry scientist in the lab



DR. GSN Reddy & DR. B.V Ramakrishna rao



With Research



Department of MB, OU with Dr. Bhicema

Principal  
Govt. Degree College for Women  
Nalgonda.