

## Science Club Report 2023-24

The activity started with induction of new members in this academic year followed by constitution student science club committee with office bearers holding different responsibilities.

A lecture series “Science Gala” was organized coinciding with National Science day celebrations on Feb 28<sup>th</sup>,2024 wherein lectures were delivered on line which inculcated the importance of creating awareness on science -society connect for societal upliftment

Dr.K.Srikala Ganapathy,Science shore Editor spoke on the need of interdisciplinary research to solve problems of society.

Ms Sreepadha Venkatramanan focused on how Machine Learning and Artificial intelligence are revolutionizing career paths for graduates irrespective of their field of study.

Dr.Sujatha Varada Rajan enlightened on methods of science

Ms.A.Annapurna Sharma spoke on childhood obesity and tried to reveal probable causes including genetic and life style factors.

**All the above are from Science Shore , Chennai a freelance platform to promote science in the young minds**

Consequently ,a mega event was organized as **Science Fair on March 1st 2024**, to show budding talents in research by all graduates of Science to impress up on the team of medical experts and managers from corporate medical sector ,who appreciated the well illustrated exhibits and came forward for tie up with the college to promote internships, hands on training and research activity .

The fair was open to School children also to educate them on the importance of science education.

The team of corporate medical experts included;

Dr.Ravi Kumar Tati Professor and Director at KIMS School of Health Management ,KIMS Hospital ,offered internship opportunities,Dr.Khubchand Jakhotia ,Head,Dept.of Aneasthescia and Director,DNB Program,Sunshine Hospital who can be a resource person for medical information,Dr.Prasannalatha who came forward to enter with MOU for internships and training our students in molecular diagnostics, Dr.Anoop Agarwal, Senior consultant ,Interventional Cardiology who can be a resource person to write interdisciplinary research projects on cardiac problems.



# St. Ann's College for Women

(Autonomous), Affiliated to Osmania University Accredited 'A+' Grade by NAAC (3rd Cycle), CPE by UGC Mehdiapatnam, Hyderabad -500028



## Invitation



Principal and staff of St. Ann's College for Women,



Cordially invite you for



**NATIONAL SCIENCE DAY 2K24**

**ANNSCISCAPE**



Chief Guest: Rev. Mother Anthonamma,  
Superior General, President of Schools and Colleges



Presided by: Rev. Sister Ann Rose,  
Provincial Superior, Hyderabad Province



### Guests of Honour:

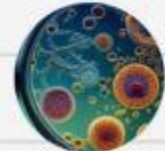


**Dr. Ravi Kumar Tati**

Professor & Director at KIMS school of Health Management, KIMS hospitals, Hyderabad

**Dr. Khubchand Jakhotia**

Head, Department of Anesthesia Director, DNB Program Sunshine Hospital Paradise, Secunderabad



**Dr. Prasannalatha**

Senior Scientist Global Hospitals (GMERC) Lakdikapul, Hyderabad

**Dr. Anoop Agarwal**

Senior Consultant Interventional Cardiology, KIMS Hospitals.



**DATE**

1st March, 2024

**VENUE**

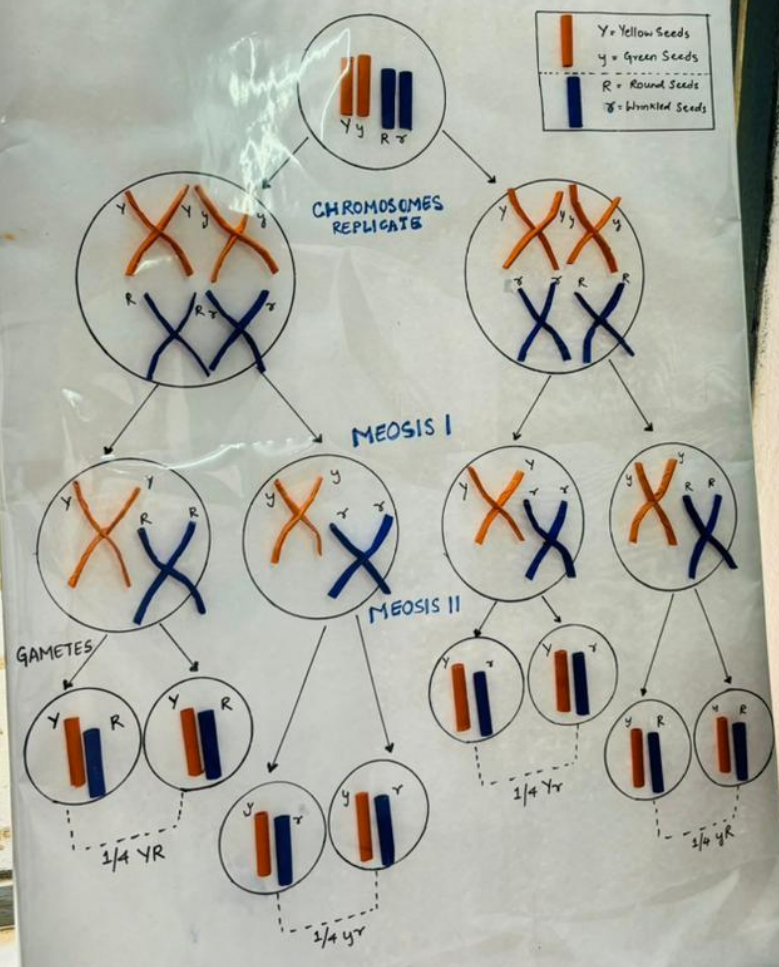
St. Ann's College for Women.

**TIME**

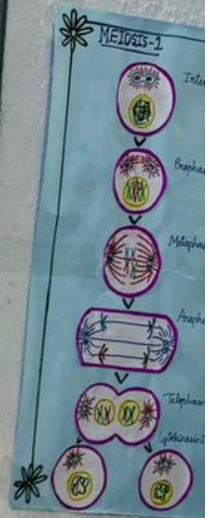
9:00 am

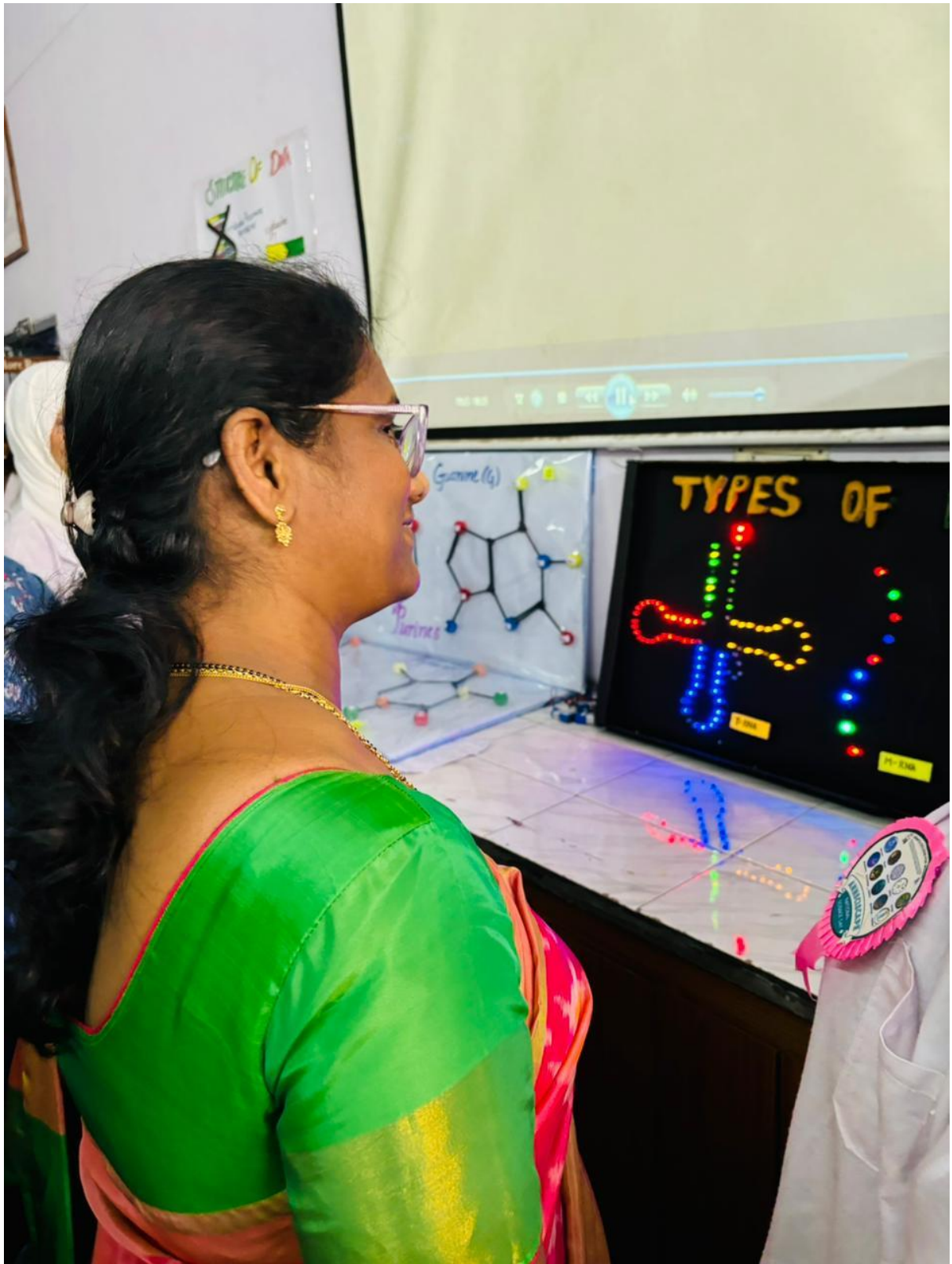


# CHROMOSOMAL THEORY OF INHERITANCE



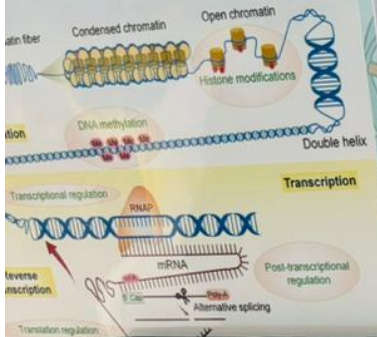
DONE BY:  
ASIMA KULSOOM  
(220423459025)  
DATE: \_\_\_\_\_





# RNA -> PROTEIN

central dogma illustrates the flow of genetic information from DNA to RNA to protein. It is defined as a process in which information in DNA is converted into a functional product.



## DNA Replication

DNA replication is a process of copying and duplicating a DNA molecule.

{Adenine} {Thymine} {Guanine}



SINGLE-STRAND

DNA Polymerase



### REPLICATION FACTS

- The replication process takes about 8 hours in human cells.
- DNA polymerase has a built-in "proof-reading" function.

SINGLE-STRAND

DNA Polymerase



MADE BY:  
RABIYA MOHAMMADI - 06  
MALIHA FAREEM - 23  
SANA MOID - 07  
GCM - 1st year

# DNA Chromatin



11NM

DNA D



Beads on a string  
from a chromatin

Core histone  
↙ 2x H2A/H2B  
2x H3/H4

30nm  
Chromatin  
fibres of  
packed  
nucleosomes



300NM

↑  
Chromosome  
Scaffold

Condensed  
Chromatin

