

Report on Empowering Nursing education on Epigenetic and Human Diseases

Narayana College of Nursing Organized one day seminar on At 9:30am pretest was completed with delegates and the seminar on Empowering Nursing education on Epigenetic and Human pathogenesis

At 10:00am the seminar was started with Prayer song followed by floral welcome of the guest Dr Siva Kumar Vijayaraghavulu. Students were delighted and inspired by the works and achievements of Dr Siva Kumar Vijaya ragavulu Sir in, lamp lighting by dignitaries and inaugural speech was given by Dr. Indira .A, Principal Narayana College of Nursing.



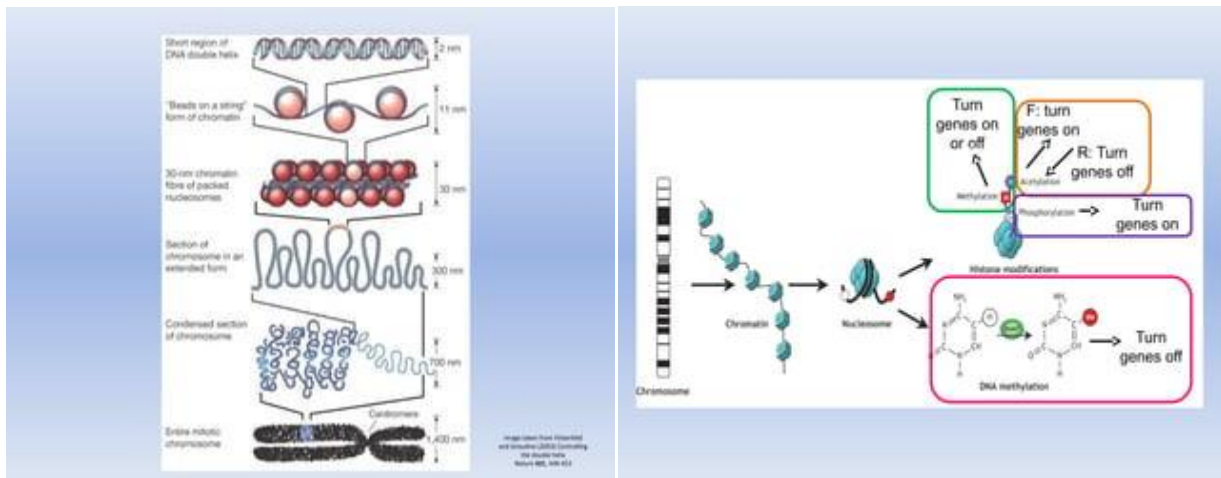
Fig: 1 inauguration by dignitaries

The seminar focused on Genetics and its role on human diseases He shared his research work and talked about The last two decades have witnessed unparalleled success in identifying the genetic bases for hundreds of human disorders and, more

recently, via sequencing, the whole exome or genome. Studies of genotype–phenotype relationships have, nonetheless, challenged clinicians and researchers because some observations are not easily explained.



Fig:2 Group Photo



Epigenetics and disease

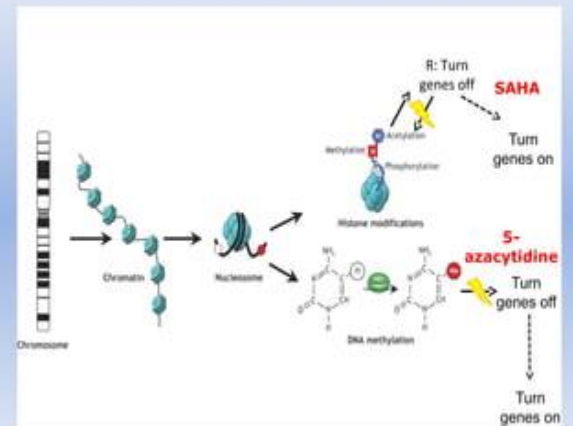
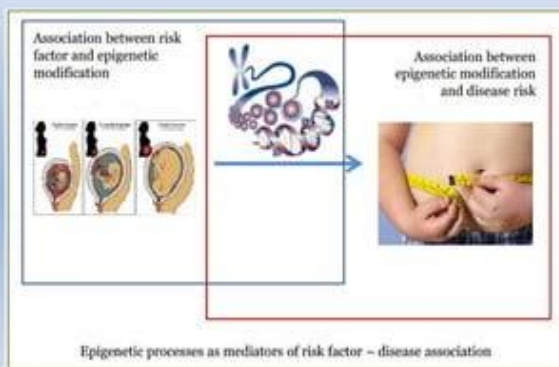
- Epigenetics provides the missing link on how the environment can change the cell without causing mutation to cause disease
- Studies have shown that modifications can be passed down from generation to generation and can be associated with causing or predisposing disease in offspring

Epigenetic therapy?

- The epigenome is dynamic with the modifications reversible. Because of this, it is possible to modify the gene expression of cells using drugs so abnormal patterns become normalised

E.g. 5-azacytidine: DNA methylation inhibitor that reactivates genes that have been silenced.

E.g. SAHA: HDAC inhibitor that blocks acetyl group removal from histones to activate gene expression.



The programme wrapped up around 4:30 pm. The vote of thanks which was given by Prof Latha.A IQAC Coordinator and HOD of Medical Surgical Nursing.