Programme

Prime Minister Research Fellowship students' teaching requirement facilitated by the Institute of Smart Structures and Systems

Module PMRF-ISSS042/II/2024

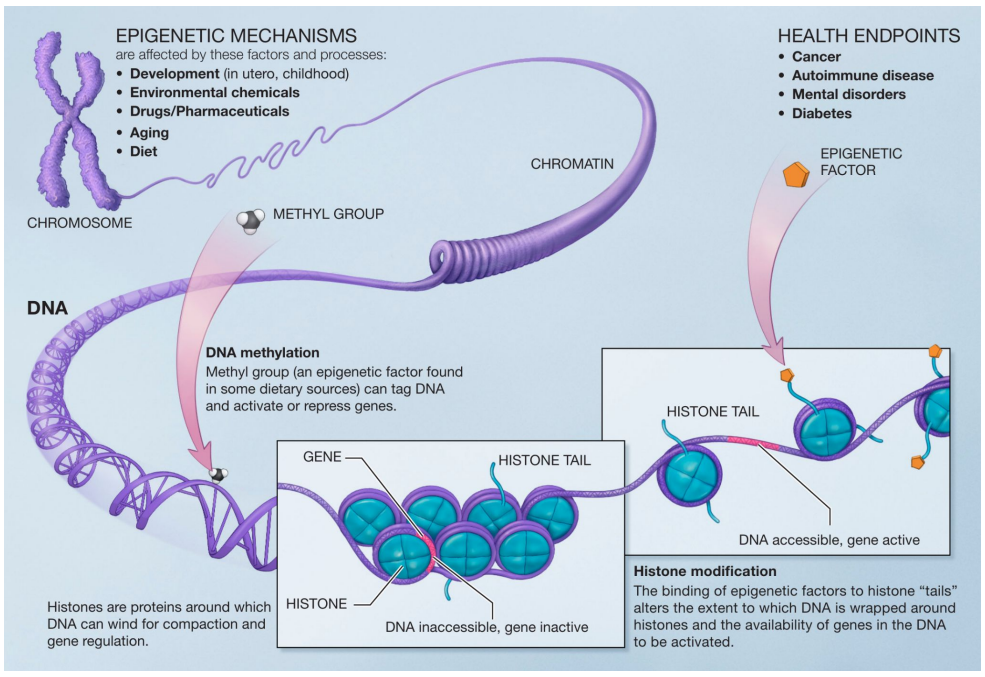
Concepts of Epigenetics

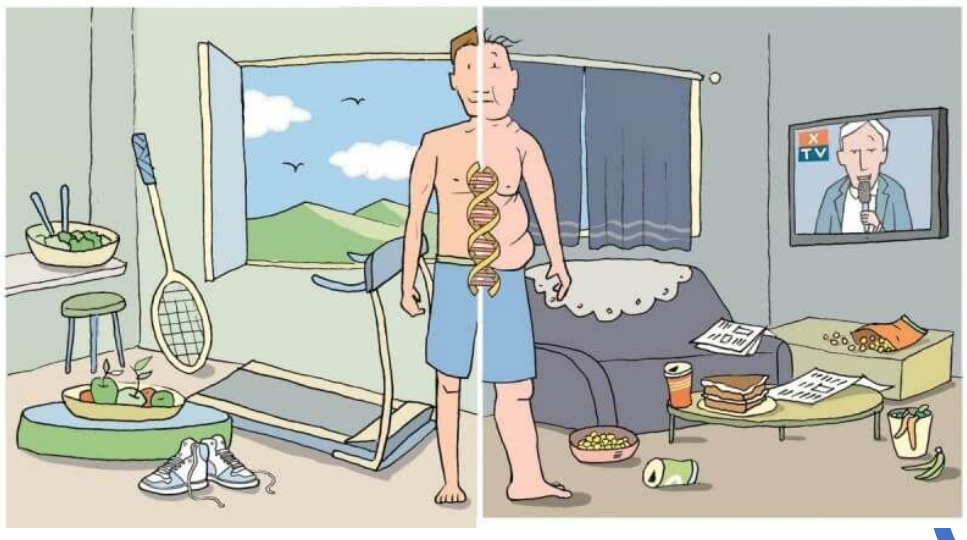
Name of the PMRF student

Harshada Jadhav

Required background of the students taught

Genetics, Biotechnology, Molecular Biology, Biochemistry





Details of the content of the module

EPIGENETICS:
Overview, DNA methylation, Chromatin structure, Histone variants, Histone Modification, Germ chromatin, Chromatin evolution, RNAi Heterochromatin, Dosage compensation, Genomic Imprinting, Stem cells, Epigenetic and diseases

Reference books:

1. Introduction to Epigenetics by Renato Paro,Ueli Grossniklaus,Raffaella Santoro,Anton Wutz. Springer
2. Epigenetics by C.David Allis,Thomas Jenuwein,Danny Reinberg,Marie Laure Caparros

- References for the research papers will be mentioned in the presentation slides

Nature of the course:

1. Recorded sessions
2. One-on-one discussion twice per week
3. Research paper discussion

Schedule of the module

Start date: 18th March 2024
End date: 1st May 2024
Timings: 9:30- 10:30 pm (Monday to Friday)
Class structure:
(1)30 mins: Introduction to the concept
(2)30-40 mins: Discussion of a landmark paper related to the concept
(3)10-20 mins: Assignment/ QnA/ Conclusion/Summary

Link

Contact email ID: isss.forum@gmail.com

Registration link:
https://docs.google.com/forms/d/18rRdGI6ZoxIoHZ4AT4T43QlnnbVeM4V0pztevF4X1jI/edit