

TIME TABLE

Epigenetics of development

Winter semester 2024/2025 (mandatory)

Lecture will be held Wednesday's (hybrid mode)

Responsible person: *prof. dr hab. Jadwiga Jaruzelska*

Date	Topic
16 October 9:00 -12:00	Introduction to epigenetics 1h (<i>prof. dr hab. Jadwiga Jaruzelska</i>) Biochemistry of nucleotide DNA modification processes, including enzymes responsible for establishment (writers), recognition (readers) and removal (erasures) of such epigenetic marks 2h (<i>prof. dr hab. Jan Barciszewski</i>)
24 October 9:00 -11:00 Thursday	Chromatin carriers of epigenetic modifications including methodologies used in studying such events 2h (<i>dr Weronika Sura</i>)
30 October 9:00-11:00	microRNA in myogenesis 2h (<i>prof. dr hab. Krzysztof Sobczak</i>)
6 November 9:00 -11:00	Long noncoding RNAs (lncRNAs) and methodologies in studying their functionality 2h (<i>dr hab. Agnieszka Dzikiewicz-Krawczyk</i>)
13 November 9:00 -11:00	Circular RNAs (circRNAs) – functional significance and methodologies for their identification and function 2h (<i>dr hab. Monika Piwecka</i>)
20 November 9:00 -10:00	PIWI-interacting RNAs (piRNAs) - functions in genome stability and transmission of epigenetic information 1h (<i>dr hab. Monika Piwecka</i>)
27 November 9:00 -11:00	Beyond the genetic code: the histone and RNA Polymerase II codes in the transcription cycle 2h (<i>dr hab. Kinga Kamieniarz-Gdula</i>)
4 December 9:00 -11:00	Epigenetic inheritance of acquired traits through sperm RNAs and sperm RNA modifications Interaction between environment and epigenetic marks 2h (<i>prof. dr hab. Jadwiga Jaruzelska</i>)
18 December 9:00 -12:00	Erasure and reappearance of epigenetic marks in the human life cycle Epigenetics and human diseases 3h (<i>prof. dr hab. Jadwiga Jaruzelska</i>)