

<<Last Updated:2021/03/25>>

## Course Schedule Information

<b>Course Code</b>	329009
<b>Semester</b>	Fall Term
<b>Day and Period</b>	Other
<b>Course Name (Japanese)</b>	細胞ネットワーク概論VI
<b>Course Name</b>	Introduction to Biomolecular Networks VI
<b>Capacity</b>	0
<b>Course Numbering Code</b>	32FRBI5K121
<b>Credits</b>	0.5
<b>Student Year</b>	1,2
<b>Instructor</b>	Hirose Tetsurou

## Basic Syllabus Information

<b>Eligibility</b>	
<b>Required/Optional</b>	
<b>Schedule</b>	
<b>Room</b>	

## Detailed Syllabus Information

<b>Course Name</b>	Introduction to Biomolecular Networks VI
<b>Language of the Course</b>	English
<b>Type of Class</b>	Lecture Subject
<b>Course Objective</b>	In postgenomic era, transcriptomic analyses revealed numerous transcripts with unknown function are produced from mammalian genomes, then they were termed genomic dark matter. This lecture will include multiple topics of lncRNAs including the transcriptomic analyses, the features, function and evolution of lncRNAs. Furthermore, some recent topics such as the epigenetic control and nuclear architecture by lncRNAs, their involvement in various diseases and advanced technologies for lncRNA research will be introduced.
<b>Learning Goals</b>	The aim of this lecture is to understand the newly appeared genomic functions including lncRNA production. The lecture will particularly focus on how the whole genomic information are precisely expressed, diversified and regulated by lncRNAs.
<b>Requirement / Prerequisite</b>	
<b>Class Plan</b>	1. Newly emerged genomic functions: RNA dark matter and RNA diversification 2. Epigenomic controls by noncoding RNAs 3. Intracellular architecture by noncoding RNAs 4. Physiological functions of noncoding RNAs
<b>Independent Study Outside of Class</b>	
<b>Textbooks</b>	Handout of PPT slides
<b>Reference</b>	Molecular Biology of the Gene, 7th ed
<b>Grading Policy</b>	Evaluated by report contents
<b>Other Remarks</b>	
<b>Special Note</b>	

## Instructor(s)

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Instructor Name	Name (hiragana)	Extension	E-mail
No data found			

**Cautions for Students**

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