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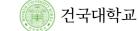
1. (Course Overview)

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(Course Schedule)

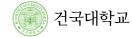
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| | | Introduction to Molecular Biology and Seminar |
| 1 | 09/02~09/06 | * Introduction to Molecular Biology and Seminar * Overview * Historical Backgrounds * Concept of Molecular Biology |
| | | Powerpoint resources |
| | | DNA is the Genetic Material |
| 2 | 09/09~09/13 | * Experimental evidences that DNA is the Genetic material - Transformation experiments by Griffith and Avery et al Chemical Experiments by Chargaff |
| 2 | 09/09~09/13 | - Blender Experiments by Hershey & Chase |
| | | * Characters of nucleic acid |
| | | Powerpoint resources |
| | | * Structures and Functions of Nuceic acids-I |
| | | * Objectives and Franctions of Nuccions side 1 |
| 3 | 09/16~09/20 | * Structures and Functions of Nuceic acids-I - Fundamental structure of nucleotide |
| | | - Structure of Nucleic acid |
| | | Powerpoint Resources |
| | | Structures and Functions of Nucleic acids-II |
| 4 | 09/23~09/27 | * Structures and Functions of Nucleic acids - DNA denaturation and Renaturation - Southern blot hybridization - Northern blot hybridization |
| | | Powerpoint Resources |
| | | DNA Replication |
| 5 | 09/30~10/04 | * DNA Replication - Characteristics of DNA replication - Enzymologies of DNA replication |
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| | | Powerpoint Resources |

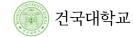


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| | | DNA Mutagenesis |
|----|-------------|---|
| 6 | 10/07~10/11 | * DNA Mutagenesis - Terminologies - Types of mutation - Spontaneous mutagenesis - Induced mutagenesis - Ames test |
| | | Powerpoint Resources |
| | | DNA Repair |
| | | * DNA Dawain |
| 7 | 10/14~10/18 | * DNA Repair - Direct repair system - Indirect repair system |
| | | Powerpoint Resources |
| | | Mid-Term Examination |
| 8 | 10/21~10/25 | Mid-Term Examination |
| | | Transcription |
| 9 | 10/28~11/01 | * Trasnscription - Overview of transcription - Characteristics of transcription - Elements for transcription - Different stages for transcription |
| | | Powerpoint Resources |
| | | Regulation of Gene Expression |
| 10 | 11/04~11/08 | * Gene Regulation - Concepts for gene regulation - lac operon - Gene regulation of lac operon |
| | | Powerpoint Resources |



| | | Gene Regulation - others |
|----|-------------|--|
| 11 | 11/11~11/15 | Gene Regulation - others - galactose operon - arabinose operon - tryptophan operon |
| | | Powerpoint Resources |
| | | Protein synthesis(translation) |
| 12 | 11/18~11/22 | * Protein synthesis - Overview - Elements for translation(overview) - Genetic code |
| | | Powerpoint Resources |
| | | Translation; Elements |
| 13 | 11/25~11/29 | Translation;Elements - mRNA - tRNA - amino acids - ribosome |
| | | Powerpoint Resources |
| | | Translation: Different stages |
| 14 | 12/02~12/06 | Translation; Different stages - Initiation - Elongation - Termination |
| | | |
| | | Powerpoint Resources PTM(Post - Translational Modification) |
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| 15 | 12/09~12/13 | * PTM |
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| | | Powerpoint Resources |



| | | Final-Term Examination |
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| 16 | 12/16~12/20 | Final - Term Examination |
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| | summary & Quiz | |
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