

Course Title	Molecular Biomedical Science		
Semester	4-2	Course Type	Advanced
Course Number	31245-00	No. of Credit	3/3/0
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Objective	<p>This course is designed to enable students to acquire basic knowledge about the molecular mechanisms by which human body is maintained and operated and life-threatening human diseases occur. This course focuses especially on cancer biology, neurobiology and human microbiome.</p>		
Syllabus	<ol style="list-style-type: none"> 1. Introduction to Cancer Biology 2. Cancer genes 3. Cancer biogenesis 4. Cancer therapy 5. New drug development 6. Introduction to Neuroscience 7. Neurons and Glia 8. Membrane potentials of neuronal cells 9. Synaptic transmission and neurotransmitter system 10. The structure of the nervous system 11. An overview of the human microbiome 12. The stomach, small intestine, large intestine, oral and lung microbiomes 13. Genetic and environmental influences on gut microbiota 14. The gut microbiota in health and disease 15. Next-generation sequencing methods to investigate the human microbiome 		