

## Module Handbook

Modul Name	Immunobiology
Modul Level	Bachelor
Abbreviation, if applicable:	BIF 324
Sub--heading, if applicable:	-
Courses included in the module, if applicable:	-
Semester	Odd
Module Coordinator	Dr. Sri Puji A., M.Si.
Lectures	Dr. Dwi Winarni
Language	Bahasa Indonesia
Classification within the curriculum:	<del>Compulsory Course</del> / Elective Studies
Teaching format/ class hours per week during semester	300 minutes/ week
Workload per semester	100 min lecture + 100 min structural assignment + 100 min self-assignment x 13 weeks; total 3900 min = 65 hours 65/25 = 2.6 ECTS
Credit point	2
Requirements	Animal Physiology
Learning goals/competencies	<p><b>General Competence (Knowledge)</b> Students are able to demonstrate the relationship between the system and the body's defense mechanisms against various diseases properly and the factors that can influence it.</p> <p><b>Specific Competence</b></p> <ol style="list-style-type: none"> <li>1. Understanding the general knowledge of immunobiology</li> <li>2. Understanding immune system and the components of specific and non-specific immune system</li> <li>3. Understanding antigene and antibody</li> <li>4. Understanding lymphoid tissue and the process of immunocompetent cell maturation</li> <li>5. Undertsanding the strcutur and function of immunoglobulin</li> <li>6. Understanding the major histocapability complex (MHC)</li> <li>7. Understanding sytokinin and complement</li> <li>8. Undertsanding the cause and effect of immunodeficiency</li> <li>9. Understanding types of hypersensitivity reaction</li> <li>10. Understanding tumor immunology</li> <li>11. Understanding the technique of immunology</li> </ol>
Content	Introduction immune system, immune response, immunocompetent cells; system of lymphoid, antigens, immunoglobulins, synthesis and genetic control of immunoglobulin; antigen – antibodies; major histocompatibility complex (MHC); complement system; cytokines, phagocytosis, hypersensitivity; immunology tumor, techniques immunobiology.
Soft skill Attribute	Discipline and discussion
Study/ exam achievements	Students are considered to be competent and pass if at least get 40% of maximum. Final score (NA) is calculated as follow: Paper project (30%), mid exam (30%), final exam (30%), and soft skill (10%) Final index is defined as follow: A : 75 - 100 AB : 70 - 74.99

	B : 65 - 69.99 BC : 60 - 64.99 C : 55 - 59.99 D : 40 - 54.99 E : 0 - 39.99
Form of media	LCD
Learning Method	Class and discussion
Literature	a. Roitt, I., Brostoff, J., dan Male, D. 1993. <i>Immunology</i> , 3 <sup>th</sup> ed. Mosby-Year Book Europe limited, London. b. Subowo. 1993. <i>Imunobiologi</i> , cetakan ke 10. Penerbit Angkasa, Bandung. c. Paul, W. E. 1989. <i>Fundamental Immunology</i> . Raven Press, New York. d. Abbas A. K., Adrew H. L., dan Jordan S. P. 2000. <i>Cellular and molecular Immunology</i> . W.B. Saunders Company, Harcourt Health Sciences Company, Toron.
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