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| 授業科目名 Title of Course | Biological Responses | | |
| 対象学年 Eligible Students | Sophomore students of School of Medicine | 単位 Credits | 9 |
| 科目責任者 Responsible Instructor | SAKAGUCHI TAKEMASA | 所属 Affiliation | Virology (内線 Ext. Number 5157) |
| | | メール E-mail | |
| | KANNO MASAMOTO | 所属 Affiliation | Immunology (内線 Ext. Number 5175) |
| | SAKAI NORIO | 所属 Affiliation | Molecular and Pharmacological Neuroscience (内線 Ext. Number 5140) |
| 科目コーディネーター Course Coordinator | | 所属 Affiliation | (内線 Ext. Number) |
| | | メール E-mail | |
| 授業方法 Lesson Style | Lecture-centered course, scheduled to provide handouts for each course (may include discussions, debates and presentations by students), experiment-centered practical training and onsite training. | | |
| 概要 Overview | After learning the structures of organisms in the course Anatomy and the basics of organisms in the course Physiology and Biochemistry, students will learn bacteriology, virology, pharmacology, immunology and parasitology in this course about Biological Responses to learn how organisms react. Students will then learn pathological conditions as the consequence of failure of systems, in preparation for subsequent classes on clinical subjects. | | |

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| <p>到達目標 Academic Goals</p> | <p>See the syllabus for each unit.</p> |
| <p>講義日程 Class Schedule</p> | <p>See the attached schedule.</p> |
| <p>出席の取り扱い Class Attendance Policy</p> | |
| <p>評価項目 Evaluation Item</p> | <p>Achievement of the academic goals (basic understanding and application of knowledge) Students must at least meet the requirements for “core curriculum-level understanding” and “a level high enough to pass CBT for Senior students.”</p> |
| <p>評価法 Evaluation Method</p> | <p>Achievement in Biological Responses is evaluated based on the average of the raw scores of pharmacology, microbiology (bacteria and viruses), and immunology (immunity and parasites) courses. If a student fails in even one subject, he/she will fail the Biological Responses course (9 credits). Such a student will need to repeat the entire course of Biological Responses next year.</p> |
| <p>履修上の注意アド バイス Suggestions/Advice for Taking the Course</p> | <p>It is extremely difficult for a student to understand a tremendous amount of information on biological responses (bacteriology, virology, pharmacology, immunology, and parasitology) using textbooks and references all by him/herself. In lectures, main points will be covered. Lectures are systematically structured and therefore, if you are absent from any of them, it will be difficult for you to understand subsequent lectures. You should prepare for and review each lecture for better understanding. As research is advancing, knowledge changes every day. You should therefore use the most recent textbooks and references possible. You should maintain a positive learning attitude. Your questions are always welcome.</p> |

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| | You are advised to visit laboratories to gain hands-on research experience. |
| 成績評価の基準 Basis of Performance Evaluation | |
| 推奨参考書 Recommended Reference Books | See the syllabus for each unit. |