

Course number	Name of the Course			Japanese Name	
HE31013	Histopathology practice			Byori-Soshikigaku-Jitshu 病理組織学実習	
Class	Unit	Module	Week	Time	Room
2 year	2 unit	Fall modules A, B, C	A (Wed.) B, C (Tue.)	3-4 hour 3-5 hour	4B113
Instructors (Office • Tel • email • Office hour)					
Michio Nagata (404/3171, appointment by email, <a href="mailto:nagatam@md.tsukuba.ac.jp">nagatam@md.tsukuba.ac.jp</a> ) Aya Shiba Yukari Okita Technical instructors: Yasuko Fukunaka, Hiroko Kikukawa, Cytologist: Yoshihiko Murata ( Hospital Pathology)					
Learning objective					
<p>Aim of this class is to learn the role of “a technician” and the technical skill needed in hospital pathology laboratory. This course provides the procedures for preparing and optimizing the human tissue samples for microscopic analysis. The students will use human tissue and make the very thin tissue section on a glass slide, and stained by specific solution/procedure to examine human tissue at a cellular level. The students need to learn the background theory of these procedures. Six to seven students learn by group and each group will do several easy experiments to reveal the meaning of every procedure and discuss the results for presentation. Each student has to submit a report until the dead line. For cytology, hospital cytologists will teach the procedures and the theory for cell preparation and explain how to understand cell pathology. The students will perform cell preparation obtained from human bodies and experience basic cytological diagnosis. Students should sketch the tissue /cell features observed.</p> <p>After the course, the students would be able to understand followings,</p> <ol style="list-style-type: none"> <li>1. Understand the practice of hospital pathology laboratory and the role of a technician.</li> <li>2. Understand the procedures of human tissue preparation and be able to perform them.</li> <li>3. Explain the theory of each procedure.</li> <li>4. Able to do basic cytopathology diagnosis.</li> </ol>					
Others : Basic knowledge for human histology, pathology and cytology are required for students attending this course. Text book might be difficult for the students. In that case, basic knowledge and procedure of Lab staining can be obtained by Internet or You-Tube.					
Language: / <input type="checkbox"/> Japanese、 <input type="checkbox"/> English、 <input checked="" type="checkbox"/> Bilingual					
Levels for credit needed	Minimal requirement for credit grant (criteria common to all practical subjects of Sch. Med. Sci.): 1) At least 2/3 attendance to the class, and 2) Submission of reports evaluated as Grade C or higher.				
Text and materials	<ol style="list-style-type: none"> <li>1. The theory and practice of Histological Techniques, 6<sup>th</sup> edition Ed. Gamble B, Churchill Livingstone.</li> <li>2. Original text</li> </ol>				
Grade evaluation	In addition to performance in the class and the report evaluation, examinations may be undertaken for particular subjects. For this subject, evaluation is made by <b>【Sketch, Report and Presentation】</b> .				
Others: Basic knowledge for human histology, pathology and cytology are required for the students attending this course. Wear the lab coat during practice.					