

[Keywords] Tumors or tumor-like lesions, inflammatory disease, genetic disorders

[Academics] Yoshihiro Abiko, Michiko Nishimura

[Course aims]

The purpose of this advanced course in oral pathology is to learn and understand about oral pathology in clinical practice and scientific research. This course consists of two classes, one on oral pathologic diagnosis and the other on oral pathologic research. In the oral pathology diagnosis class, students will learn how to diagnose common diseases. In the oral pathology research class, students will learn about research design and methods for elucidation of oral diseases, development of new diagnostic methods, and new therapeutic approaches. The goal of this course is to obtain the basic knowledge and techniques required to become an oral pathologist.

[Course objectives]

The goals of this course are for students to be able to:

- (1) Diagnose common oral diseases.
- (2) Explain issues concerning the causes and pathogenesis of oral diseases that have not yet been elucidated.
- (3) Explain newly developed methods for diagnosis and treatment of oral diseases.
- (4) Handle cell cultures correctly.
- (5) Handle animals used in experiments correctly.
- (6) Learn and understand the morphologic techniques required in oral pathologic research.
- (7) Learn and understand the molecular biology techniques required in oral pathologic research.

[Course content]

Class	Theme	Content	Academics
1	Classroom lectures	oral and maxillofacial pathology	Yoshihiro Abiko Michiko Nishimura
2	Problem-based learning	pathogenesis of oral disease	Yoshihiro Abiko Michiko Nishimura
3	Problem-based learning	diagnosis and treatment of oral disease	Yoshihiro Abiko Michiko Nishimura
4	Practical experience of cell culture experiments.		Yoshihiro Abiko Michiko Nishimura
5	Practical experience of animal experiments.		Yoshihiro Abiko Michiko Nishimura
6	Practical experience of morphologic techniques.		Yoshihiro Abiko Michiko Nishimura
7	Practical experience of molecular biology techniques.		Yoshihiro Abiko Michiko Nishimura
8	Practical experience of data analysis.		Yoshihiro Abiko Michiko Nishimura

[Grading policies]

Your overall grade in class will be decided based on class attendance and reports.

[Remarks]

Textbook: Students will be informed of which textbook to use.

Reference book: Students will be informed of which reference book to use.

[Preparation for course]

Students must understand the course objectives and prepare appropriately for classes.