

## 歯髄生物学演習

Workshop to Pulp Biology

### 担当教員 Instructors

|                      |                          |
|----------------------|--------------------------|
| 教授:                  | 石井信之                     |
| 准教授:                 |                          |
| 講師:                  | 武藤徳子 鈴木二郎                |
| 助教:                  | 室町幸一郎                    |
| Professor:           | Nobuyuki Tani-Ishii      |
| Associate Professor: |                          |
| Lecturer:            | Noriko Muto, Jiro Suzuki |
| Assistant Professor: | Koichiro Muromachi       |

### 授業区分／単位数 Course category/Units

|                       |      |         |
|-----------------------|------|---------|
| 授業区分／単位数              | コア科目 | 4単位     |
| Course category/Units | Core | 4 units |

### 開講学期／週当時間（コマ）数 Semester

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|---|
| 前期/週 4 時間（2 コマ）   |
| First semester/4 hours per week (2 classes)<br>This course meets for one 4-hour session per week. There are a total of 15 sessions. |

### 目標 Objectives

歯髄は周囲を象牙質に囲まれた結合組織であるが、発生学的、組織学的、および機能的に密接に関連することから象牙質歯髄複合体という概念で捉えられている。歯髄生物学は象牙質歯髄複合体と周囲組織の構造、機能、および病態を解析し、歯および歯周組織疾患への治療法を開発する。

The close relationship between pulp and dentin, referred to as the dentin-pulp complex, is one of several reasons that pulp and dentin should be considered as a development, structure and functional entity. Pulp biology research based on the clinical approach to pulp and periodontal disease through the analysis of dentin pulp complex and periodontal structures, functions, and disease mechanism. New treatment was designed and developed by experiment.

### 講義内容 Contents of Course

象牙質歯髄複合体の発生過程から硬組織誘導メカニズムの解析、細菌感染に対する免疫防御機能メカニズムの解析を最新の科学研究論文を理解し実験を行う。実験は歯髄およびセメント細胞に対する分化誘導メカニズムとラット動物実験で行う。

The analysis of the hard tissue development and the immune-defense function mechanism for the bacterial infection by turns from the latest scientific research article from the outbreak process of the dentin pulp complex and perform the experiment models.

### 参考書 Recommended reference books and/or readings

Pathways of the Pulp 9th Coen& Hargreaves, Mosby  
Journal of Endodontics  
International Endodontics

### 成績評価の方法 Grading System

口頭試問 100%  
Oral Examination 100%

### 履修に当たっての留意点 Course requirement

予習・復習  
Preparations for lessons / a review