

Medical Biotechnology and Laboratory Science ≈ Pathological technique

Textbook :

1. Laboratory method in histotechnology of armed force institute of pathology, 1992
2. The Art & Science of Cytopathology Exfoliative Cytology, Richard M. DeMay, MD
3. The Art & Science of Cytopathology Aspiration Cytology, Richard M. DeMay, MD

Reference book :

1. Manual of histologic staining methods of the Armed Forces Institute of Pathology
2. 病理切片技術與組織學染色法 作者:邱金賜編譯
3. Anatomic Pathology Checklist
4. Laboratory General Checklist
5. 外科病理取材圖解指南
6. 子宮頸抹片篩檢資料申報系統
7. The Bethesda System for Reporting Cervical Cytology
8. 醫學分子檢驗
作者：吳俊忠 總校閱;吳俊忠;李宏謨;孫光蕙;趙崇義 主編

Course Description :

Brief Introduction: the course includes pathology and cytology specimen collection, preparing formalin-fixed and paraffin-embedded tissue blocks, techniques on frozen sections, cytology screening and interpretation, special staining, immunohistochemistry, principles of transmission electron microscopy, and handling molecular pathological specimens and the interpretation.

Teaching schedule :

Week	Date	Class time	Teaching progress	Teacher
W1	07/30 (Tu)	15:10~16:00	Procedure of Pathological Examination	Yi-Chun Lin
W2	08/06 (Tu)	15:10~16:00	The Processing of Surgical Pathology Specimens	Yeh-Tzu Chou
W3	08/13 (Tu)	15:10~16:00	The Principle of Surgical Specimen Examination	Yeh-Tzu Chou
W4	08/20 (Tu)	15:10~16:00	Methods and Interpretation of Gynecological Cytology	Yi-Chun Lin
W5	08/27 (Tu)	15:10~16:00	Treatment and Interpretation Standard of Cytological Examination & Cytology Quality Management	Yi-Chun Lin
W6	09/03 (Tu)	15:10~16:00	The Preparation of Formalin-Fixed and Paraffin-Embedded Tissue Block	Chi-Fen Tseng
W7	09/10 (Tu)	15:10~16:00	Frozen Section Techniques	Chun-Yi Liu
W8	09/17 (Tu)	15:10~16:00	Holiday (中秋節)	
W9	09/24 (Tu)	15:10~16:00	Midterm Examination	Chi-Jung Yang
W10	10/01 (Tu)	15:10~16:00	Introduction of Special Stains	Chi-Jung Yang
W11	10/08 (Tu)	15:10~16:00	Introduction of Immunohistochemistry (IHC)	Chi-Fen Tseng
W12	10/15 (Tu)	15:10~16:00	Clinical Applications of Immunohistochemistry (IHC)	Ren-Chin Wu
W13	10/22 (Tu)	15:10~16:00	Introduction of Transmission Electron Microscopy	Pei-Yu Chen
W14	10/29 (Tu)	15:10~16:00	Introduction of Molecular Pathology – Identification of Gene Mutations	Sheng-Chi Hsu
W15	11/05 (Tu)	15:10~16:00	Introduction of Molecular Pathology – Gene Mutation Identification and Clinical Applications	Sheng-Chi Hsu
W16	11/12 (Tu)	15:10~16:00	Introduction of Molecular Pathology – Fluorescence In Situ Hybridization (FISH)	Shang-En Li
W17	11/19 (Tu)	15:10~16:00	Introduction of Molecular Pathology – Clinical Applications of Fluorescence In Situ Hybridization (FISH)	Shang-En Li
W18	11/26 (Tu)	15:10~16:00	Final Examination	Ren-Chin Wu