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Nota di contenuto	ANTIGEN RETRIEVAL IMMUNOHISTOCHEMISTRY BASED RESEARCH AND DIAGNOSTICS; CONTENTS; PREFACE; CONTRIBUTORS; PART I: RECENT ADVANCES IN ANTIGEN RETRIEVAL TECHNIQUES AND ITS APPLICATION; CHAPTER 1: STANDARDIZATION OF ANTIGEN RETRIEVAL TECHNIQUES BASED ON THE TEST BATTERY APPROACH; CHAPTER 2: EXTENDED APPLICATION OF ANTIGEN RETRIEVAL TECHNIQUE IN IMMUNOHISTOCHEMISTRY AND IN SITU HYBRIDIZATION; CHAPTER 3: EXTRACTION OF DNA/RNA FROM FORMALIN-FIXED, PARAFFIN-EMBEDDED TISSUE BASED ON THE ANTIGEN RETRIEVAL PRINCIPLE; PART II: STANDARDIZATION OF IMMUNOHISTOCHEMISTRY CHAPTER 4: KEY ISSUES AND STRATEGIES OF STANDARDIZATION FOR QUANTIFIABLE IMMUNOHISTOCHEMISTRYCHAPTER 5:

STANDARDIZATION OF IMMUNOHISTOCHEMISTRY BASED ON ANTIGEN RETRIEVAL TECHNIQUE; CHAPTER 6: STANDARD REFERENCE MATERIAL: CELL LINE DEVELOPMENT AND USE OF REFERENCE CELL LINES AS STANDARDS FOR EXTERNAL QUALITY ASSURANCE OF HER2 IHC AND ISH TESTING; CHAPTER 7: PEPTIDES AS IMMUNOHISTOCHEMISTRY CONTROLS; CHAPTER 8: STANDARD REFERENCE MATERIAL: PROTEIN-EMBEDDING TECHNIQUE AND DESIGN OF BAR CODE
CHAPTER 9: THE PROS AND CONS OF AUTOMATION FOR IMMUNOHISTOCHEMISTRY FROM THE PROSPECTIVE OF THE PATHOLOGY LABORATORYCHAPTER 10: IMAGE ANALYSIS IN IMMUNOHISTOCHEMISTRY; PART III: TISSUE/CELL SAMPLE PREPARATION; CHAPTER 11: TISSUE CELL SAMPLE PREPARATION: LESSONS FROM THE ANTIGEN RETRIEVAL TECHNIQUE; CHAPTER 12: MECHANISMS OF ACTION AND PROPER USE OF COMMON FIXATIVES; CHAPTER 13: CELL SAMPLE PREPARATION FOR CLINICAL CYTOPATHOLOGY: CURRENT STATUS AND FUTURE DEVELOPMENT; CHAPTER 14: DESIGN OF A TISSUE SURROGATE TO EXAMINE ACCURACY OF PROTEOMIC ANALYSIS
PART IV: MOLECULAR MECHANISM OF ANTIGEN RETRIEVAL TECHNIQUECHAPTER 15: STUDY OF FORMALIN FIXATION AND HEAT-INDUCED ANTIGEN RETRIEVAL; CHAPTER 16: A LINEAR EPITOPES MODEL OF ANTIGEN RETRIEVAL; CHAPTER 17: pH OR IONIC STRENGTH OF ANTIGEN RETRIEVAL SOLUTION: A POTENTIAL ROLE FOR REFOLDING DURING HEAT TREATMENT; CHAPTER 18: COMMENTARY: FUTURE DIRECTIONS; PART V: PROTEOMIC ANALYSIS OF PROTEIN EXTRACTED FROM TISSUE/CELLS; CHAPTER 19: TECHNIQUES OF PROTEIN EXTRACTION FROM FFPE TISSUE/ CELLS FOR MASS SPECTROMETRY
CHAPTER 20: APPLICATION OF SHOTGUN PROTEOMICS TO FORMALIN-FIXED AND PARAFFIN-EMBEDDED TISSUESCHAPTER 21: VISUALIZING PROTEIN MAPS IN TISSUE; CHAPTER 22: SYMBIOSIS OF IMMUNOHISTOCHEMISTRY AND PROTEOMICS: MARCHING TO A NEW ERA; APPENDIX: RELATED LABORATORY PROTOCOLS; INDEX; Color plates

Sommario/riassunto

The most complete, up-to-date reference on antigen retrieval and immunohistochemistry An antigen is a substance that prompts the generation of antibodies and can cause an immune response. The antigen retrieval (AR) technique is in wide use across the globe, and is a critical technique used in medical diagnosis of disease, particularly clinical targeted cancer treatment. Antigen Retrieval Immunohistochemistry Based Research and Diagnostics discusses several scientific approaches to the standardization of quantifiable immunohistochemistry (IHC). Based on the development and app