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Nota di contenuto	PHARMACEUTICAL BIOASSAYS; CONTENTS; Preface; Contributors; 1 Methods and Applications of Anticancer Bioassays; 1.1 MTT Assay for Six Carcinoma Cells; 1.2 Flow Cytometric Assay for Cell Apoptosis; 1.3 DNA Fragmentation Assay; 1.4 Bcl-XL/BH3 Interaction Assay; 1.5 Dissociation-Enhanced Lanthanide Fluoro-Immunoassay (DELFI A); 1.6 Ishikawa Cell and Rat Assay for Detecting Antiestrogens; 1.7 ATP Assay for Eight Cells; 1.8 AP Activity Assay; 1.9 Tumor Endothelial Cell Tube Formation Assay; 1.10 Antiangiogenic Assay; 1.11 In Vivo Hollow Fiber Assay; 1.12 VX2 Rabbit Lung Assay 1.13 Insulin-Like Growth Factor-I-Induced Kinase Receptor Activation Assay 1.14 Insulin-Like gD.trkA-Induced Kinase Receptor Activation Assay; 1.15 UV Spectra-Based Calf Thymus DNA Intercalation Assay; 1.16 Fluorescence Spectra-Based Calf Thymus DNA Intercalation Assay; 1.17 P-Glycoprotein Pump in MCF-7R Cells Assay; 1.18 P-Glycoprotein Pump-Related Efflux Carriers Assay; 1.19 [(3)H]Substrate Transport Inhibition Assay; 1.20 Lactate Dehydrogenase Release Assay; 1.21 Functional Assay of Mitochondrial P-gp; 1.22 Resistance Index Value Assay; References and Notes 2 Methods and Applications of Antiviral Assays 2.1 Nonradioactive HIV-

1 RT Activity Assay; 2.2 Respiratory Syncytial Virus Assay; 2.3 Influenza Virus Types A and B Assay; 2.4 Nasal Exhaled NO Concentration Assay; 2.5 Nasal NOS2 mRNA Quantity Assay; 2.6 RT-PCR and Swine Assay for Anti-HEV Antibody; 2.7 HIV-1 Protease and Reverse Transcriptase Kinetic Assay; 2.8 Anti-HIV Assay; 2.9 Robust Antiviral Assays; 2.10 HIV/SIV Fusion Assay; 2.11 Rapid DNA Hybridization Assay; 2.12 Antiviral Screening Assay for HepAD38 Cell Cultures; 2.13 Trak-C HCV Core Assay; References and Notes

3 Methods and Applications of Antitubercular Assays 3.1 Mycobacterium tuberculosis Assay; 3.2 DNA Polymerase Lyase Assay; 3.3 Agar Dilution Assay for In Vitro Antitubercular Activity; 3.4 Microplate Alamar Blue Assay for In Vitro Antitubercular Activity; 3.5 Radiometric Respiratory Assay for In Vitro Antitubercular Activity; 3.6 Mycobacterium bovis BCG Inhibition Assay; References and Notes; 4 Methods and Applications of Thrombus-Related Assays; 4.1 In Vitro Anti-Platelet Aggregation Assay; 4.2 Fibrinolytic Area Assay; 4.3 TXB(2) and PGD(2) TLC Assay; 4.4 TXA(2) Synthase Activity Assay 4.5 [Ca(2+)](i) Measuring Assay 4.6 Arachidonic Acid Liberation Assay; 4.7 Serotonin Secretion Assay; 4.8 cAMP Release Assay; 4.9 Ex Vivo Anti-Platelet Aggregation Assay for Patients; 4.10 ATP Release Assay; 4.11 PAF-Induced Mice Mortality Assay; 4.12 PGE(2) and TXB(2) ELISA; 4.13 Thrombelastograph Assay; 4.14 Image-Monitored FeCl(3)-Induced Thrombosis Assay for Rat; 4.15 Weight-Monitored FeCl(3)-Induced Thrombosis Assay for Rats; 4.16 Occlusion Time-Monitored FeCl(3)-Induced Thrombosis Assay for Pig; 4.17 Doppler Blood Flow-Monitored FeCl(3)-Induced Thrombosis Assay for Mouse 4.18 Rat Groin Flap Assay

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#### Sommario/riassunto

The definitive compendium of bioassay procedures and applications A virtual encyclopedia of key bioassay protocols, this up-to-date, essential resource reviews the methods and applications of bioassays that quantify drug activity and evaluate the validity of pharmacological models. Demonstrating the specific ways in which various pharmaceutical bioassays interpret the activity of drug molecules, the book covers the evaluation and screening of drug compounds in a wide spectrum of therapeutic categories. Throughout, the authors use various models to link experimental observations wi

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