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METHODS IN BIOTECHNOLOGY PLANT GENOME EDITING WITH CRISPR SYSTEMS PLANT GENOME  
ENGINEERING FOXO TRANSCRIPTION FACTORS ADVANCES IN NEUROMYELITIS OPTICA SPECTRUM DISORDERS  
(NMOSD) WHITAKER'S CUMULATIVE BOOK LIST ARTS & HUMANITIES CITATION INDEX SEUNG-BEOM HONG  
YIPING QI BING YANG WOLFGANG LINK YU CAI  
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WHITAKER'S CUMULATIVE BOOK LIST ARTS & HUMANITIES CITATION INDEX *SEUNG-BEOM HONG YIPING QI BING  
YANG WOLFGANG LINK YU CAI*

AS RAPID ADVANCES IN BIOTECHNOLOGY OCCUR THERE IS A NEED FOR A PEDAGOGICAL TOOL TO AID CURRENT STUDENTS AND LABORATORY PROFESSIONALS IN BIOTECHNOLOGICAL METHODS METHODS IN BIOTECHNOLOGY IS AN INVALUABLE RESOURCE FOR THOSE STUDENTS AND PROFESSIONALS METHODS IN BIOTECHNOLOGY ENGAGES THE READER BY IMPLEMENTING AN ACTIVE LEARNING APPROACH PROVIDED ADVANCED STUDY QUESTIONS AS WELL AS PRE AND POST LAB QUESTIONS FOR EACH LAB PROTOCOL THESE SELF DIRECTED STUDY SECTIONS ENCOURAGE THE READER TO NOT JUST PERFORM EXPERIMENTS BUT TO ENGAGE WITH THE MATERIAL ON A HIGHER LEVEL UTILIZING CRITICAL THINKING AND TROUBLESHOOTING SKILLS THIS TEXT IS BROKEN INTO THREE SECTIONS BASED ON LEVEL METHODS IN BIOTECHNOLOGY ADVANCED METHODS IN BIOTECHNOLOGY I AND ADVANCED METHODS IN BIOTECHNOLOGY II EACH SECTION CONTAINS 14 22 LAB EXERCISES WITH INSTRUCTOR NOTES IN APPENDICES AS WELL AS AN ANSWER GUIDE AS A PART OF THE BOOK COMPANION SITE THIS TEXT WILL BE AN EXCELLENT RESOURCE FOR BOTH STUDENTS AND LABORATORY PROFESSIONALS IN THE BIOTECHNOLOGY FIELD

THIS VOLUME PROVIDES READERS WITH WIDE RANGING COVERAGE OF CRISPR SYSTEMS AND THEIR APPLICATIONS IN VARIOUS PLANT SPECIES THE CHAPTERS IN THIS BOOK DISCUSS TOPICS SUCH AS PLANT DNA REPAIR AND GENOME EDITING ANALYSIS OF CRISPR INDUCED MUTATIONS MULTIPLEXED CRISPR CAS9 SYSTEMS CRISPR CAS12A CPFL EDITING SYSTEMS AND NON AGROBACTERIUM BASED CRISPR DELIVERY SYSTEMS WRITTEN IN THE HIGHLY SUCCESSFUL METHODS IN MOLECULAR BIOLOGY SERIES FORMAT CHAPTERS INCLUDE INTRODUCTIONS TO THEIR RESPECTIVE TOPICS LISTS OF THE NECESSARY MATERIALS AND REAGENTS STEP BY STEP READILY REPRODUCIBLE LABORATORY PROTOCOLS AND TIPS ON TROUBLESHOOTING AND AVOIDING KNOWN PITFALLS COMPREHENSIVE AND THOROUGH PLANT GENOME EDITING WITH CRISPR SYSTEMS METHODS AND PROTOCOLS IS A VALUABLE RESOURCE FOR ANY RESEARCHER INTERESTED IN LEARNING ABOUT AND USING CRISPR SYSTEMS IN PLANTS

THIS VOLUME PROVIDES READERS WITH A COLLECTION OF THE LATEST PROTOCOLS USED TO STUDY PLANT GENOME EDITING AND TRAIT ENGINEERING THE CHAPTERS IN THIS BOOK ARE ORGANIZED INTO FIVE PARTS GENOME ENGINEERING SYSTEMS MACHINERY DESIGN AND VALIDATION DELIVERY TOOLS GENERATION AND ANALYSIS OF ENGINEERING MATERIALS AND CROP GENOME ENGINEERING APPLICATIONS THE CHAPTERS COVER TOPICS SUCH AS METHODS OF APPLYING THE POPULAR CRISPR CAS9 OR CRISPR CAS12 SYSTEMS FOR EDITING GENOMES IN DIFFERENT CROP SPECIES THE USE OF SMALL SYNTHETIC PLASTOME FOR POTATO GENOME ENGINEERING AND THE USE OF CRISPR CAS9 FOR ALGAL CELL GENOME ENGINEERING WRITTEN IN THE HIGHLY SUCCESSFUL METHODS IN MOLECULAR BIOLOGY SERIES FORMAT CHAPTERS INCLUDE INTRODUCTIONS TO THEIR RESPECTIVE TOPICS LISTS OF THE NECESSARY MATERIALS AND REAGENTS STEP BY STEP READILY REPRODUCIBLE LABORATORY PROTOCOLS AND TIPS ON TROUBLESHOOTING AND AVOIDING KNOWN PITFALLS CUTTING EDGE AND COMPREHENSIVE PLANT GENOME ENGINEERING METHODS AND PROTOCOLS IS A VALUABLE TOOL FOR RESEARCHERS INTERESTED IN LEARNING MORE ABOUT THIS DEVELOPING AND IMPORTANT FIELD

THIS SECOND EDITION VOLUME EXPANDS ON THE PREVIOUS EDITION WITH UPDATES ON THE LATEST TECHNIQUES AND TECHNOLOGIES USED IN FOXO RESEARCH THE CHAPTERS IN THIS BOOK ARE ORGANIZED INTO FIVE PARTS PART ONE COVERS BIOCHEMICAL TECHNIQUES USED TO ANALYZE PHOSPHORYLATION STATUS OF FOXO PROTEINS IDENTIFY FOXO BINDING PARTNERS AND ASSESS FOXO SPECIFIC TRANSCRIPTIONAL ACTIVITY PART TWO HIGHLIGHTS GENETIC TECHNIQUES THAT ARE USED TO IDENTIFY FUNCTIONAL DOMAINS AND VALIDATE DISEASE RELEVANCE PART THREE TALKS ABOUT BIOPHYSICAL AND BIOINFORMATIC METHODS TO STUDY THE STRUCTURE AND DYNAMICS OF FOXO PROTEINS AND PROTEIN PROTEIN INTERACTIONS PART FOUR DISCUSSES DIFFERENT FLUORESCENCE AND IMAGING TECHNIQUES TO MEASURE FOXO TRANSLOCATION AND PART FIVE FOCUSES ON FUNCTIONAL STUDIES IN MODEL ORGANISMS TO CHARACTERIZE CELL DEATH REGULATION AND LIFE AND HEALTHSPAN WRITTEN IN THE HIGHLY SUCCESSFUL METHODS IN MOLECULAR BIOLOGY SERIES FORMAT CHAPTERS

INCLUDE INTRODUCTIONS TO THEIR RESPECTIVE TOPICS LISTS OF THE NECESSARY MATERIALS AND REAGENTS STEP BY STEP READILY REPRODUCIBLE LABORATORY PROTOCOLS AND TIPS ON TROUBLESHOOTING AND AVOIDING KNOWN PITFALLS COMPREHENSIVE AND CUTTING EDGE FOXO TRANSCRIPTION FACTORS METHODS AND PROTOCOLS SECOND EDITION IS A VALUABLE RESOURCE FOR BOTH EXPERT AND NOVEL RESEARCHERS WHO WANT TO LEARN MORE ABOUT THIS EXCITING AND DEVELOPING FIELD OF FOXO BIOLOGY

A MULTIDISCIPLINARY INDEX COVERING THE JOURNAL LITERATURE OF THE ARTS AND HUMANITIES IT FULLY COVERS 1 144 OF THE WORLD S LEADING ARTS AND HUMANITIES JOURNALS AND IT INDEXES INDIVIDUALLY SELECTED RELEVANT ITEMS FROM OVER 6 800 MAJOR SCIENCE AND SOCIAL SCIENCE JOURNALS

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