

Advances in genetics

Academic Press, 2006

Monografía

The field of genetics is rapidly evolving and new medical breakthroughs are occurring as a result of advances in knowledge of genetics. This series continually publishes important reviews of the broadest interest to geneticists and their colleagues in affiliated disciplines. Articles covered in this volume include Biological Activity and Biotechnological Aspects of Peptide Nucleic Acid (PNA); Changing Images of the Gene; Historical and Modern Genetics of Plant Graft Hybridization; Step into the Groove: Engineered Transcription Factors as Modulators of Gene Expression; Step Out of the Groove: E

Título: Advances in genetics edited by Jeffrey C. Hall ... [et al.].

Editorial: Amsterdam Academic Press 2006

Descripción física: 1 online resource (220 p.)

Mención de serie: Advances in genetics 56

Nota general: Description based upon print version of record

Bibliografía: Includes bibliographic references and index

Contenido: Cover Page; Serial Editors; Title Page; Contents; Contributors; Chapter 1: Biological Activity and Biotechnological Aspects of Peptide Nucleic Acid; I. Introduction; II. PNA: Chemistry and Structure; III. Biological Activity; IV. Biotechnological Aspects of PNA; V. Concluding Remarks; Acknowledgments; References; Chapter 2: Changing Images of the Gene; I. Introduction; II. The Hypothetical Gene; III. Physical Concepts of the Gene; IV. Chemical Nature of the Gene; V. The Genetic Code; VI. Structure of the Gene; VII. Molecular Units of the Gene; VIII. Higher Orders of Genes IX. Gene Number and Gene SizeX. Genes in the Cytoplasm; XI. Epigenetics; XII. Prions; XIII. Conclusions and Outlook; XIV. Epilog; Acknowledgments; References; Chapter 3: Historical and Modern Genetics of Plant Graft Hybridization; I. Introduction; II. Historical Background; III. The Existence of Graft Hybrids; IV. Methods of Graft Hybridization; V. Characteristics of Graft Hybridization; VI. Mechanisms Underlying Graft Hybridization; VII. Significance of Graft Hybridization; VIII. Conclusions; Acknowledgments; References Chapter 4: Step into the Groove: Engineered Transcription Factors as Modulators of Gene ExpressionI. Introduction; II. Transcriptional Therapy; III. Engineered Zinc-Finger-Based Transcription Factors (ZF-TFs) and the Influence of Nucleosomes; IV. Concluding Remarks and Future Perspectives; Acknowledgments; References; Chapter 5: Step out of the Groove: Epigenetic Gene Control Systems and Engineered Transcription Factors; I. Influence of Epigenetic Mechanisms on Gene Expression; II. How Do ZF-TFs Modulate Epigenetic Gene Regulation?; III. Epigenetic Aspects to Consider for ZF-TF Approaches AcknowledgmentsReferences; Index

Lengua: English

ISBN: 1-280-63570-3 9786610635702 0-08-046331-2

Materia: Genetics Human genetics

Enlace a serie principal: Advances in Genetics (CKB)954926956852 (DLC)47030313

Enlace a formato físico adicional: 0-12-017656-4

Punto acceso adicional serie-Título: Advances in genetics 56

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es