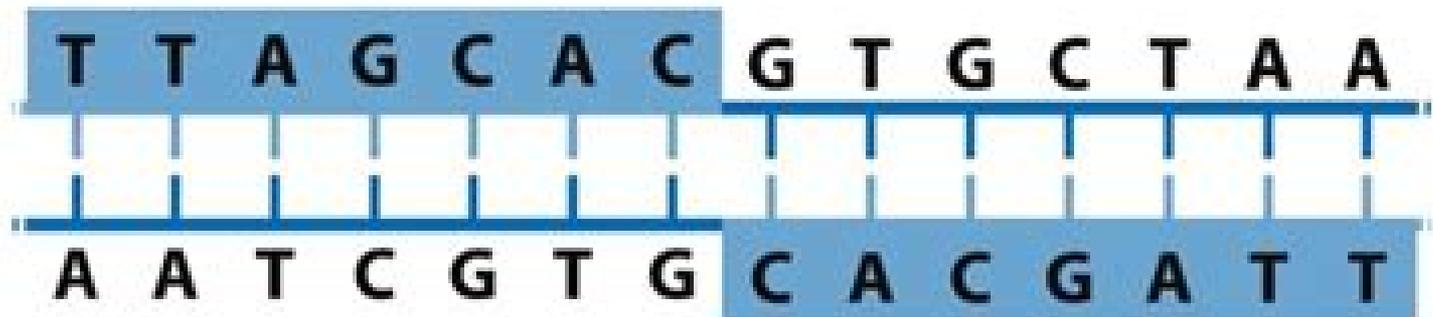


2II. Unusual DNA Sequence Structures



A. Palindrome (word/phrase spelled identically read either forward or backward)

- Sequence of double-stranded nucleic acid with inverted repeats of base sequence having twofold symmetry.
- The sequence is superimposed by rotating 180° about the horizontal axis then 180° about the vertical axis.

Unusual Dna Structures

Markus Werner Germann



Unusual Dna Structures:

Unusual DNA Structures R.D. Wells, S.C. Harvey, 2012-12-06 This book contains the papers which were presented at the First Gulf Shores Symposium on Unusual DNA Structures The meeting was held April 6 8 1987 in Gulf Shores Alabama

Averitable explosion has taken place in recent years regarding our understanding of unusual DNA structures This symposium was dedicated to enhancing our understanding of the biology and chemistry of these important structural features The symposium was supported by funds provided by the Department of Biochemistry University of Alabama at Birmingham Schools of Medicine and Dentistry We wish to express our appreciation to Ms Patti Guyton for her expert organizational skills and assistance in organizing the meeting and preparation of this book Robert D Wells and Stephen C Harvey Department of Biochemistry Schools of Medicine and Dentistry University of Alabama at Birmingham Birmingham Alabama 35294 VII VIII C Pete Dickie 1 Dave Wilson 20 39 Paul Hagerman 58 Robert Shapiro 2 Wang Ting Hsieh David Pettijohn 21 40 Jacquelynn Larson 59 Angel Garcia 3 Hark Glover Hicela Caserta 22 41 Johanna Griffin 60 Richard Lavery 4 David Pulleyblank 23 Adam Jaworski 42 Jeremy Lee 61 Norma Wills 5 Robert Wells 24 Han Htun 43

Unusual DNA Structures, 1988 **Unusual DNA Structures** Robert D. Wells, Stephen C. Harvey, 1988-01 **Unusual DNA Structures** Randal Cox, 1997 *Unusual DNA Structures [microform]* Markus Werner Germann, 1989 *2D NMR Studies of Unusual DNA Structures in Solution* Fredrik N. B. Edfeldt, 2001 **Reactivity of Eukaryotic Type II Topoisomerase with Unusual DNA Structures** In Kwon Chung, Mark T. Muller, 1991 **Unusual DNA Structure in Site-specific and Homologous Recombination** Scott Umlauf, 1990 **Progress in Nucleic Acid Research and Molecular Biology**, 2000-10-19 Nucleic acids are the fundamental building blocks of DNA and RNA and are found in virtually every living cell Molecular biology is a branch of science that studies the physicochemical properties of molecules in a cell including nucleic acids proteins and enzymes Increased understanding of nucleic acids and their role in molecular biology will further many of the biological sciences including genetics biochemistry and cell biology Progress in Nucleic Acid Research and Molecular Biology provides a forum for discussion of new discoveries approaches and ideas in molecular biology It contains contributions from leaders in their fields and abundant references Provides a forum for discussion of new discoveries approaches and ideas in molecular biology Features contributions from leaders in their fields Contains abundant references **Shape-selective Targeting of Unusual DNA Structures by Tris(4,7-diphenyl-1,10-phenanthroline)rhodium(III)** Mindy R. Kirshenbaum, 1989

Nucleic Acids in Chemistry and Biology G. Michael Blackburn, 2006 Discussing both the chemistry and biology of nucleic acids this edition also provides coverage of nucleic acid chemistry and reactions and interactions with proteins and drugs

Molecular Biology Jordanka Zlatanova, 2023-04-21 *Molecular Biology Structure and Dynamics of Genomes and Proteomes* second edition illustrates the essential principles behind the transmission and expression of genetic information at the level of DNA RNA and proteins Emphasis is on the experimental basis of discovery and the most recent advances in the field while

presenting a rigorous yet still concise summary of the structural mechanisms of molecular biology Topics new to this edition include the CRISPR Cas gene editing system Coronaviruses structure genome vaccine and drug development and newly recognized mechanisms for transcription termination The text is written for advanced undergraduate or graduate level courses in molecular biology Key Features Highlights the experimental basis of important discoveries in molecular biology Thoroughly updated with new information on gene editing tools viruses and transcription mechanisms termination and antisense Provides learning objectives for each chapter Includes a list of relevant videos from the Internet about the topics covered in the chapter

Advanced Chemical Biology Howard C. Hang, Matthew R. Pratt, Jennifer A. Prescher, 2023-02-21
Advanced Chemical Biology The modern approach to teaching chemical biology Advanced Chemical Biology is organized around the central dogma of life progressing from genes to proteins and higher order cellular structures including core application areas such as imaging chemical genetics activity based protein profiling and natural product discovery and biosynthesis Advanced topics and applications in e g microbiology developmental biology and neurobiology are covered in separate sections Every chapter is homogeneous in style and layout consisting of a short historical introduction followed by a description of the underlying concepts and a selection of recent examples of how the concept has been turned into practice The subdivision of the contents into core and supplemental chapters enables a flexible use in teaching both for a one semester and a two semester course Written by authors and editors coming from the leading scientific institutions that have developed the concepts and technologies for this discipline Advanced Chemical Biology includes specific information on topics like DNA function synthesis and engineering chemical approaches to genome integrity and RNA function synthesis and probing Chemical approaches to transcription and RNA regulation in vivo chemical biology of genome engineering and peptide protein synthesis and engineering Directed evolution for chemical biology chemical biology of cellular metabolism chemical biology of lipids and protein post translational modifications Chemical glycobiology chemical and enzymatic modification of proteins genetic code expansion bio orthogonal chemistry and cellular imaging With its broad scope and focus on turning concepts into applications Advanced Chemical Biology is an excellent starting point for anyone entering the field and looking for a guide to the wide range of available methods and strategies that chemical biology has to offer With a Foreword by Nobel Laureate Carolyn Bertozzi

Structure & Methods Ramaswamy H. Sarma, Mukti H. Saram, 1990
Molecular Mechanisms of Werner's Syndrome Michel Lebel, 2004-09-14 During our short time on earth we all undergo the highly complex process of aging and with it we experience the many physiological symptoms Studies of premature aging have produced a great deal of information that gives some aspects of aging a better understanding This book explores Werner s syndrome To some Werner s syndrome is considered a caricature of aging but others will find it fascinating that only one mutated human gene WRN can bring about a multitude of complicated phenotypes that are usually associated with aging

Analysis of an Unusual DNA Structure Jeffrey G. Ojemann, 1987 *Study of Antibiotic Binding to Unusual DNA*

Structures Dongchul Suh,1993 **Cation Binding to Unusual DNA Structures** Indrajit Giri,1998 **Biological**
Structure and Dynamics Ramaswamy H. Sarma,Mukti H. Sarma,1996 **Studia biophysica** ,1989

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