

## **Dangerously Thin: A Case Study on the Genetic Code**

Henry Blake (65 y/o male) noticed that his left leg was swollen just inferior to the knee. His doctor diagnosed him with deep vein thrombosis (DVT, a disorder that gets its name from the blood clots that form in a vein deep within the leg) and placed him on a blood thinner called warfarin. Henry returned to the doctor's office after suffering from frequent nose bleeds. A laboratory test revealed that Henry's blood was not clotting normally – even for someone on warfarin. Dr. Strickland immediately took Henry off of his warfarin treatments but his abnormal results continued.

Through genetic testing, Henry was found to carry a mutation in a gene for an enzyme called CYP2C9. This enzyme can break down many drugs currently in use, including warfarin. Henry was considered a poor metabolizer (PM) because he was not making any fully functional enzyme. Tests showed that Henry carries mutations in both chromosomes with the CYP2C9 gene. In both copies of the gene, the 1075th nucleotide has been changed from an adenine (A) to a cytosine (C). This mutation converts an ATT triplet code in the coding strand of the DNA molecule to CTT.

### Short Answer Questions

1. Why was Henry's blood dangerously thin even after he stopped taking warfarin?
2. Why did the mutation lead to a malfunction in Henry's CYP2C9 enzyme?

Questions 3 – 5: Consider the following DNA sequence found on a different region the template strand of Henry's CYP2C9 gene: **TTACCGAGA**

3. How many codons does this DNA sequence contain?
4. What would be the sequence of the mRNA after this sequence is transcribed?
5. What would be the amino acid sequence for this region? (Use chart on back)

# **Dangerously Thin A Case Study On The Genetic Code Answers**

**John J. Grefenstette**



## **Dangerously Thin A Case Study On The Genetic Code Answers:**

NCERT Exemplar Problems-Solutions BIOLOGY class 12th Arihant Experts,2014-11-03 Questions are the root cause of success The more new authentic questions you will have the more new authentic knowledge you will have Considering this fact the Department of Education in Biology Mathematics DESM with an aim to improve the quality of teaching learning process in schools has made an attempt to develop resource books of Exemplar Problems in different subjects at secondary and higher secondary stage These specialized resource books named NCERT Exemplars are not meant to serve merely as question banks for examinations but are primarily meant to discourage rote learning The first and the only books of its kind by Arihant Publications is an attempt at providing comprehensive guide to NCERT Exemplar Problems Solutions for Class IX to XII The present book for Class XII Biology contains different types of questions of varying difficulty level Also detailed explanation for comprehensive understanding has been given for all objective and subjective problems Some questions covered in the book would require the students to apply simultaneous understanding of more than one chapters units The book has been divided into 16 chapters namely Reproduction in Organisms Sexual Reproduction in Flowering Plants Human Reproduction Reproductive Health Principle of Inheritance Variation Molecular Basis of Inheritance Evolution Human Health Diseases Strategies for Enhancement in Food Production Microbes in Human Welfare Biotechnology Principles Processes Biotechnology Its Applications Organisms Populations Ecosystem Biodiversity Conservation and Environmental Issues The problems covered in the book will encourage teachers to design quality questions on their own The questions provided in the book will test comprehension information recall analytical thinking and problem solving ability creativity and speculative ability The book will also be highly useful for school examinations and to build foundation for engineering medical entrance examinations As the book contains detailed and comprehensive solutions for NCERT Exemplar problems for Class XII Biology it for sure will help in discouraging rote learning

**Narrow Roads of Gene Land: Volume 2: Evolution of Sex** William Donald Hamilton,1996 The second volume of the collected papers of W D Hamilton the most important theoretical biologist of the 20th century Volume 1 The Evolution of Social Behaviour OUP still in print was devoted to the first half of Hamilton's life's work Volume 2 is devoted to the other half on sex and sexual selection Each paper is accompanied by a specially written autobiographical introduction

**Genetic Algorithms and their Applications** John J. Grefenstette,2013-08-21 First Published in 1987 This is the collected proceedings of the second International Conference on Genetic Algorithms held at the Massachusetts Institute of Technology Cambridge MA on the 28th to the 31st July 1987 With papers on Genetic search theory Adaptive search operators representation issues connectionism and parallelism credit assignment ad learning and applications

Reflections on Space United States Air Force Academy,1964 Contents The challenge of space exploration Space and its impact on the United States The United States space effort The cost and wisdom of the space race The space effort of the U S S R The military application of space International law and cooperation in outer space Author *Keeping it*

*Living Douglas Deur*, Nancy J. Turner, 2005 The European explorers who first visited the Northwest Coast of North America assumed that the entire region was virtually untouched wilderness whose occupants used the land only minimally hunting and gathering shoots roots and berries that were peripheral to a diet and culture focused on salmon Colonizers who followed the explorers used these claims to justify the displacement of Native groups from their lands Scholars now understand however that Northwest Coast peoples were actively cultivating plants well before their first contact with Europeans This book is the first comprehensive overview of how Northwest Coast Native Americans managed the landscape and cared for the plant communities on which they depended Bringing together some of the world s most prominent specialists on Northwest Coast cultures *Keeping It Living* tells the story of traditional plant cultivation practices found from the Oregon coast to Southeast Alaska It explores tobacco gardens among the Haida and Tlingit managed camas plots among the Coast Salish of Puget Sound and the Strait of Georgia estuarine root gardens along the central coast of British Columbia wapato maintenance on the Columbia and Fraser Rivers and tended berry plots up and down the entire coast With contributions from ethnobotanists archaeologists anthropologists geographers ecologists and Native American scholars and elders *Keeping It Living* documents practices many unknown to European peoples that involve manipulating plants as well as their environments in ways that enhanced culturally preferred plants and plant communities It describes how indigenous peoples of this region used and cared for over 300 different species of plants from the lofty red cedar to diminutive plants of backwater bogs

*Genetic Algorithms and Their Applications* ,1987      *Scientific and Technical Aerospace Reports* ,1995

*Ebony* ,1980-09 EBONY is the flagship magazine of Johnson Publishing Founded in 1945 by John H Johnson it still maintains the highest global circulation of any African American focused magazine      *Linguistics and Language Behavior Abstracts* ,1999      **Elizabethan** ,1960      *The Atlantic* ,1963      **Nature; New Biology** ,1971      **New Scientist** ,1986

*The Atlantic Monthly* ,1963      **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards** ,2006      *ICMIT 2005* Yunlong Wei,2005

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