

The Future of Molecular Biology

Arijeet Dedhe*

Department of Biotechnology, DY Patil University, India

Abstract

The powerful techniques of recombinant DNA technology are applied in virtually every area of biological research. Consequently, a discussion of the future of recombinant DNA technology amounts to a consideration of the future of biological research in general. Perhaps the most dramatic recent impact of this technology is the sequencing of entire genomes of a number of organisms. As DNA sequences are determined, they are being stored in public databases, fully accessible to molecular cell biologists throughout the world.

Keywords: DNA • Base Pairs • Amino acids • Technology

Introduction

Must life need a deoxyribonucleic acid info base? Deoxyribonucleic acid itself is an exceptionally unreasonable atom within the structure whereby we tend to discover it in organic entities like ourselves with three billion or additional base sets. To such an extent that, once a cell duplicates its deoxyribonucleic acid the underlying mistake pace of around one of each 10⁴ would go away a large variety of blunders in an exceedingly human ordination. No organic entity of any vital level of complexity may endure such miscalculation rate. It needs broad miscopy blunder remedy to within the finish reduce the error rate to additional like one of each 10¹⁰ base sets, for instance in need of what one mistake in an exceedingly total ordination. This extraordinary preciseness in duplicating is a part of cells, not of deoxyribonucleic acid alone, and it's crucial to the sensible honorableness of life forms. Besides, the accuracy of the error modification live is heavily influenced by cells and frameworks in living beings. It takes even once replication if ordination or epigenome damage happens. To boot, these styles of management square measure abused by cells after they amendment their genomes that was it may be a questionable thought a few of years previous.

In the event that life in different places was to contain deoxyribonucleic acid, associate degree alternate inquiry emerges: is that the code akin to what we've found in creatures on earth? The response thereto question would likewise be ground breaking. We have a tendency to understand that the deoxyribonucleic acid trio code is excess (more than one trio codes for an identical amino acid) therefore it isn't entirely incomprehensible that totally different codes for twenty amino acids might happen, or perhaps that on the far side what twenty amino acids can be coded for. Those likewise area unit vital inquiries. The Murchison visible radiation, for example, contained at any rate seventy amino acids. Each left handed and right handed structures were found, though life on earth utilizes simply left handed structures. The prospect of writing for bigger than twenty amino acids is likewise raised by the analyses of Saint George Church at Harvard whose cluster eliminated a stop sequence from microscopic organisms therefore empowering it to code for an additional, nonproteinogenic, amino acid.

At last, the high significance of such examinations therefore instead of later needs that in work our near planetary teams we have a tendency to get to be astonishingly conscious so as to not sully alternative near planetary cluster bodies with earthbound deoxyribonucleic acid or living things. As opposition what was initial plan, deoxyribonucleic acid trade between living beings is pervasive, particularly at the cell level and together with germ line cells. We are able to at this time don't foursquare analysis the start phases of life here on earth as those living beings presently don't exist since the environmental conditions and composition at that time was completely distinctive. The common condition of various planets and moons could be the essential proof we'd like, and it mustn't be injured.

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Conflict of Interest

Author declares there is no conflict of interest

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***Address for Correspondence:** Arijeet Dedhe, Department of Biotechnology, DY Patil University, India, Email: arijeet.dedhe11@gmail.com

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