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Department of Environmental Technology, Food Technology and Molecular Biotechnology

Chair: Prof. Dr. Taejun Han

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Center for Biotech Data Science



EVALUATION COMMITTEE

Prof. Dr. Name Surname (Name of Institute, promoter)

Prof. Dr. Name Surname (Name of Institute, co-promoter)

Prof. Dr. Name Surname (Name of Institute)

Prof. Dr. Ir. Name Surname (Name of Institute)

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SUMMARY

Here comes the summary (about 15 to 20 lines, using multiple paragraphs), as shown below. The text of the summary makes use of 1.5 line spacing.

Deoxyribonucleic acid is a molecule that carries the genetic instructions used in the growth, development, functioning and reproduction of all known living organisms and many viruses. DNA and ribonucleic acid (RNA) are nucleic acids; alongside proteins, lipids and complex carbohydrates (polysaccharides), they are one of the four major types of macromolecules that are essential for all known forms of life. Most DNA molecules consist of two biopolymer strands coiled around each other to form a double helix.

The two DNA strands are called polynucleotides since they are composed of simpler monomer units called nucleotides. Each nucleotide is composed of one of four nitrogen-containing nucleobases (cytosine [C], guanine [G], adenine [A] or thymine [T]), a sugar called deoxyribose, and a phosphate group. The nucleotides are joined to one another in a chain by covalent bonds between the sugar of one nucleotide and the phosphate of the next, resulting in an alternating sugar-phosphate backbone. The nitrogenous bases of the two separate polynucleotide strands are bound together, according to base pairing rules (A with T and C with G), with hydrogen bonds to make double-stranded DNA.

Keywords

Here come the comma-separated keywords (3 to 5 capitalized keywords in alphabetical order), as shown below.

DNA, Double Helix, Genetic Information, Macromolecules, Nucleic Acids

ABBREVIATIONS

A Adenine

C Cytosine

DNA Deoxyribonucleic acid

G Guanine

RNA Ribonucleic acid

T Thymine

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1 INTRODUCTION

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1.1 CONTEXT

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6 CONCLUSIONS AND FUTURE WORK

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APPENDIX A

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APPENDIX B

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