



# Introduction to Bioinformatics

By Arthur Lesk

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Fully revised and updated, the fourth edition of *Introduction to Bioinformatics* shows how bioinformatics can be used as a powerful set of tools for retrieving and analyzing this biological data, and how bioinformatics can be applied to a wide range of disciplines such as molecular biology, medicine, biotechnology, forensic science, and anthropology. This new edition contains two new chapters, with significantly increased coverage of metabolic pathways, and gene expression and regulation.

Written for students without a detailed prior knowledge of programming, this book is the perfect introduction to the field of bioinformatics, providing friendly guidance and advice on how to use various methods and techniques. Additionally, frequent examples, self-test questions, problems, and exercises are incorporated throughout the text to encourage self-directed learning.

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## **Editorial Review**

### Review

`Review from previous edition An essential textbook for undergraduate students who are interested in a comprehensive introduction to the multidisciplinary field of bioinformatics.' Jean-Christophe Nebel, Kingston University

`I'm impressed with the breadth AND depth achieved in what is a reasonably compact text. There are lots of quite innovative features which support the pedagogical delivery of the material.' Richard Badge, University of Leicester

`A very good introductory textbook in bioinformatics. It is well-structured and nicely laid out. There are numerous examples and problems attached to each chapter, including the novel Weblems.' Karen Page, University College London

### About the Author

Arthur M. Lesk is Professor of Biochemistry and Molecular Biology at Pennsylvania State University.

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