

Introduction to Genomics

By Arthur M. Lesk

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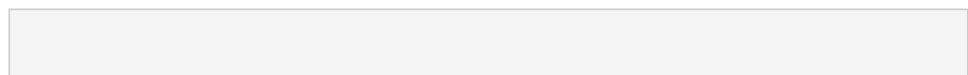
Our genome is the blueprint to our existence: it encodes all the information we need to develop from a single cell into a hugely complicated functional organism. But how do we identify the genes that make up our genome? How do we determine their function? And how do different genes form the regulatory networks that direct the processes of life?

Introduction to Genomics is a fascinating insight into what can be revealed from the study of genomes: how organisms differ or match; how different organisms evolved; how the genome is constructed and how it operates; and what our understanding of genome structure and function means in terms of our future health and wellbeing.

Thoroughly revised and brought up to date, the second edition features:

- * **Coverage of the latest techniques and developments** in the field
- * **Rich pedagogy:** End-of-chapter exercises, web-based problems ("weblems"), and lab assignments; "Special Topic" boxes; engaging case studies new "Ethics" boxes exploring the ethical issues surrounding the study of genomics; highlighted key terms; and an end-of-book glossary
- * **A larger format** provides greater clarity to the text and accompanying figures
- * **Five new chapters**, including one dedicated to metabolomics
- * **An updated Companion Website** (www.oup.com/uk/orc/bin/9780199564354) offering a range of resources, including figures from the book in electronic format, answers to end-of-chapter exercises, hints to end-of-chapter problems, a guided tour of web sites in genomics, and rotating figures

The field of genomics is enabling us to analyze life in more detail than ever before; and *Introduction to Genomics* tackles this conceptually challenging--and fascinating--subject in a clear, lucid way.



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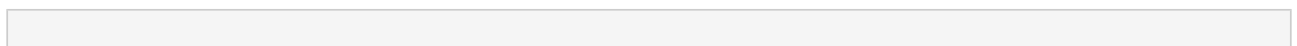
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Introduction to Genomics By Arthur M. Lesk Bibliography

- Sales Rank: #687215 in Books
- Brand: Brand: Oxford University Press, USA
- Published on: 2012-04-26
- Original language: English
- Number of items: 1
- Dimensions: 7.70" h x .80" w x 10.40" l, 2.20 pounds
- Binding: Paperback
- 424 pages



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Editorial Review

Review

Review from previous edition: "This is an excellent book for students studying this exciting and fast paced subject. It has a number of chapters covering all aspect of genomics, from comparative genomics and evolution to mapping, sequencing and databases through to microarrays and proteomics, finally bringing it all together with systems biology. Suitable for final year undergraduates and masters students, it will also make a good reference book for PhD students"

--Dr Dawn L. Arnold, University of the West of England

"This is a very versatile textbook that offers a good overview of genomics in different areas of biological research. It is an excellent introduction for students from different degrees who have an interest in genomics and its underlying techniques."

--Dr Thomas Caspari, Bangor University

"Arthur Lesk is an eloquent writer. I am impressed by his use of specific examples, analogies, and humour to illuminate scientific principles. His writing in Introduction to Genomics is fluid and easy to read."

--Dr Daniel G. Peterson, Mississippi State University

"Introduction to Genomics provides an excellent, broad and comprehensive overview of genomics research in biology. The field of genomics is highly technology driven and moves extremely fast and this book stands out in translating all this technological information into biological, meaningful concepts. It is highly appropriate to support genomics education to undergraduates."

--Dr Dick Roelofs, VU University, Amsterdam

About the Author

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

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