



# Introduction to Protein Science: Architecture, Function, and Genomics

By Arthur M. Lesk

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Designed for students in biology, biochemistry, and biomedicine, *Introduction to Protein Science*, Second Edition, provides a wide-ranging introduction to the contemporary study of proteins in health and disease. The text describes basic principles of protein structure and methods for studying them, illustrates the wide variety of functions that proteins have, and shows how their structures and functions are closely linked.

*Introduction to Protein Science*, Second Edition, relates the study of proteins to the context of modern high-throughput data streams of genomics and proteomics. It also provides a balanced treatment of the relationship between computational and experimental methods. The text is enhanced by marginal notes, exercises, problems, and "weblems" that develop students' database and computational server skills. An updated and expanded Companion Website offers resources for students and instructors.

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#### Review

Review from previous edition: "This is a lively and engaging text which provides an up-to-date introductory view of protein science with plenty of interesting examples. The text is well explained and organized into short sections which provide students with brief introductions to a wide range of topics. I would recommend this book to my students to read in parallel to our courses to build a broad understanding of protein science, and also to anyone who is interested in learning about this area of science"

--Dr Gail Hutchinson, School of Biological Sciences, University of Reading

"This text is a great resource for teaching an interdisciplinary course. It can be easily supplemented to engage students from life and physical sciences as well as engineering."

--Dr Melisenda Jean McDonald, Chemistry Department, University of Massachusetts Lowell

#### About the Author

Arthur M. Lesk is Professor of Biochemistry and Molecular Biology at The Pennsylvania State University. He is the author of the highly successful Introduction to Bioinformatics, and Introduction to Genomics, both published by Oxford University Press.

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