



Practical bioinformatics a beginner's guide to protein analysis

Suman Bhattacharjee

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Suppose you are provided with a protein sequence and you know absolutely nothing about it. Now it's your turn to gather information about that protein so that you can design experiments and bring the proteomics work forward. This book will teach you exactly how to deal with the protein sequence from the beginner's level. I have written this book keeping some important points in my mind that I required when I was a beginner in Bioinformatics. This book is free of hustle bustle and I never focused on information. This book is for a layman who wants to study bioinformatics for him or herself. So use it as a bioinformatics practical hand book and develop your bioinformatics knowledge with it. However the theory part of bioinformatics is also required for the understanding of the practical so I am writing a basic beginner's Bioinformatics theory eBook too. Hope to publish it soon. This book will teach you the following questions-

How to find the desired protein sequence in NCBI and retrieve it in computer?

How to run NCBI BLAST?

How to search conserved domain in the database?

How to perform multiple sequence alignments?

How to construct a phylogenetic tree from query sequences?

How to predict secondary structure of a protein?

How to gather information about a protein from PDB (protein data bank)?

How to find known domains in your protein?

How to find known motifs in your protein sequence?

How to understand different chemical properties of a protein from its sequence?

During the different chapters of the book I have mentioned the important topics to understand but there are many things that I have not mentioned about every database. You will find interesting to find those region on your own when you start to understand the system. You know basically Bioinformatics is an advanced database searching and we all search thousands of databases ourselves. So there is a database explorer somewhere in all of you. This book will increase the appetite of that explorer in you for sure. If it accomplishes that task, my efforts will pay off.

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