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Web resources for bioinformatics, biotechnology and life sciences research

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The vast amount of information generated has made computational analysis critical and has increased demand for skilled bioinformaticians. There are thousands of bioinformatics and genomics resources that are free and publicly accessible. However, trying to find the right resource and to learn how to use the complex features and functions can be difficult. In this communication, I explore ways that you can quickly find and effectively learn how to use resources. It will include a tour of examples, resources, organized by categories such as Algorithms and Analysis tools, expression resources, genome browsers, Literature and text mining resources. One can learn how to find resources with the OpenHelix free search interface. OpenHelix searches hundreds of genomics resources, tutorial suites, and other material to deliver the most relevant resources in seconds. Documented the Web-based tools and technologies, resources, web content, blog posts, videos, webinars, and web sites that will facilitate easy access and use that saves time and effort avoiding massive generalized searches or hunting and picking through lists of databases. The purpose of the documentation is to bridge the gap between the rising information needs of biological and medical researchers and the rapidly growing number of online bioinformatics resources. The freely available, searchable databases arranged by categories and sub-categories such as Databases and Analysis Tools, Proteomics Resources, and Enzymes and Pathways. Key programming tools and technologies used in bioinformatics and molecular evolutionary research are provided. Those interested in learning basic biocomputing skills will find links to selected online tutorials.

Biography

Ajit Kumar Roy obtained his MSc degree in Statistics and joined Agricultural Research Service (ARS) of Indian Council of Agricultural Research (ICAR) as a Scientist in 1976. He has edited eighteen books and several conference proceedings covering the areas of statistics, bioinformatics, economics, and ICT applications in aquaculture/fisheries/agriculture and allied fields besides published over 100 articles in refereed journals & conference proceedings. He is a highly acclaimed researcher and consultant. His recent popular books are '*Applied Big Data Analytics*'; '*Self Learning of Bioinformatics Online*'; '*Applied Bioinformatics, Statistics and Economics in Fisheries Research*' and '*Applied Computational Biology and Statistics in Biotechnology and Bioinformatics*'. He is widely recognized as an expert research scientist, teacher, author, hands-on leader in advanced analytics. He served as National Consultant (Impact Assessment), Consultant (Statistics), Computer Specialist and Principal Scientist at various organizations at National and International levels. Presently, he is a visiting Professor of four Indian Universities.

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