

Creating a Knowledge Base of Biological Research Papers*

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Abstract

Intelligent text-oriented tools for representing and searching the biological research literature are being developed, which combine object-oriented databases with artificial intelligence techniques to create a richly structured knowledge base of Materials and Methods sections of biological research papers. A knowledge model of experimental processes, biological and chemical substances, and analytical techniques is described, based on the representation techniques of taxonomic semantic nets and knowledge frames. Two approaches to populating the knowledge base with the contents of biological research papers are described: natural language processing and an interactive knowledge definition tool.

1. Introduction

Biological data and research results are rapidly becoming electronically accessible on CD-ROM or through computer networks such as Internet. Since published papers represent the primary output of biological research - about 600,000 are published each year - the prospect of a "digital library" presents an opportunity for computer scientists and biologists to move beyond exact reproduction of hard-copy resources to create intelligent text-oriented tools for representing and searching the biological research literature.

Our project is investigating the potential for using artificial intelligence techniques in combination with object oriented databases to create a richly structured knowledge base of biological research papers. Several electronic text and knowledge resources are being utilized:

a. A corpus of 132 papers in Bacterial Chemotaxis, annotated using the Standard Generalized Markup Language [Bryan 1988]. This is the primary corpus around which we are building our prototype tools and knowledge base.

b. The Unified Medical Language System, a large taxonomy of medical concepts created by the National Library of Medicine [UMLS 1993]. The UMLS provides a valuable point of comparison for our knowledge model.

Initially we are dealing only with papers in the field of bacterial chemotaxis, but the techniques and tools we

develop will be applicable to other branches of molecular biology. We are focusing on the Materials and Methods sections of these papers, as being both typical of texts in experimental biology and sufficiently narrow and patterned to be amenable to knowledge engineering techniques.

This report describes research aimed at creating a knowledge base of the Materials and Methods sections of the 132 bacterial chemotaxis papers, including both the text and associated knowledge frames in an integrated object-oriented structure. This knowledge base will be used to create a prototype of an intelligent retrieval system for biological research, and to experiment with a variety of information retrieval techniques.

The major challenges we face are: first, to create a knowledge model capable of expressing a significant range of biological concepts (Section 2); and second, to overcome the "knowledge bottleneck" by creating automated or semi-automated tools to populate the knowledge base with frames for a corpus of papers (Section 3). Although 132 documents is a very small corpus which might be represented without automated tools (although this is still a non-trivial effort), the aim of our research is to develop techniques and tools that will help us "scale up" to larger knowledge bases in the future.

We are also investigating concept-based retrieval algorithms for large document collections [Baclawski 1994] and developing an interactive query system for the knowledge base described in this report [Baclawski 1993b]. Software is being developed on the Apple Macintosh computer, using the WOOD object-oriented database system [St. Clair 1993].

2. Knowledge Model

Intelligent processing of language requires background knowledge, which permits an agent (whether computer or human) to make connections between a current input and other objects and events that have been or are being observed. In the sample text (Figure 1) [Kuo 1986], an instance of a complex method called **Immunoblots** is described, and details are provided for a large number of specific sub-processes, as indicated in the following quotations:

Electrophoretic transfer of proteins from the gel to nitrocellulose

Examples Of Biology Research Papers

Vicky McMillan



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Physics With Illustrative Examples From Medicine and Biology George B. Benedek, Felix M.H. Villars, 2000-06-09 A reissue of a classic book intended for undergraduate courses in biophysics biological physics physiology medical physics and biomedical engineering This is an introduction to mechanics with examples and problems from the medical and biological sciences covering standard topics of kinematics dynamics statics momentum and feedback control and stability but with the emphasis on physical and biological systems The book can be used as a supplement to standard introductory physics courses as well as for medical schools medical physics courses and biology departments The three volumes combined present all the major topics in physics Originally published in 1974 from the authors typescript this reissue will be edited corrected typeset the art redrawn and an index added plus a solutions manual will also be available Writing Papers in the Biological Sciences Vicky McMillan, 2012 Designed primarily for undergraduates this self help manual offers straightforward solutions to common problems and an overview of the diversity of writing tasks faced by professional biologists **Super 10 CBSE Class 12 Biology 2023 Exam Sample Papers with 2021-22 Previous Year Solved Papers, CBSE Sample Paper & 2020 Topper Answer Sheet | 10 Blueprints for 10 Papers | Solutions with marking scheme |** , Super 10 CBSE Board Class 12 Biology 2023 Exam Sample Papers contains 10 Sample Papers designed on the Latest pattern issued by CBSE in Sep 2022 as per the Full Year syllabus prescribed by CBSE Board Each of the Sample Papers is designed on the Latest Question Paper Design 2022 23 The book also provides the CBSE Sample Paper 2022 23 with Solutions The book also provides 2021 22 Term I II Solved papers Another useful inclusion is the Topper Answer Sheet of CBSE 2020 as provided by CBSE The book also provides the complete Latest Syllabus of 2021 2022 Detailed Explanations to all the Questions with Marking Scheme has been provided **Encyclopedia of Library and Information Sciences** John D. McDonald, Michael Levine-Clark, 2017-03-15 The Encyclopedia of Library and Information Sciences comprising of seven volumes now in its fourth edition compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online The new fourth edition which includes 55 new entire and 60 revised entries continues to reflect the growing convergence among the disciplines that influence information and the cultural record with coverage of the latest topics as well as classic articles of historical and theoretical importance Collected Papers from the Institute for Biological Research of the Johns Hopkins University , 1929 The Routledge Handbook of Corpus Approaches to Discourse Analysis Eric Friginal, Jack A. Hardy, 2020-12-17 The Routledge Handbook of Corpus Approaches to Discourse Analysis highlights the diversity breadth and depth of corpus approaches to discourse analysis compiling new and original research from notable scholars across the globe Chapters showcase recent developments influenced by the exponential growth in linguistic computing advances in corpus design and compilation and the applications of sound quantitative and interpretive techniques

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