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Dictionary of Natural Products Several biology and chemistry faculty and their independent study and summer students have studied the biological activity of natural products. Make sure they take advantage of this specialized resource.

What is ChemNetBase? How do I use it? - Ask Us!

Name of Product/Version: Dictionary of Marine Natural Products 2019 (dmnp.chemnetbase.com)
Product Description: This chemical database is a comprehensive resource for natural products isolated from marine organisms.
Report Date: 17th December 2019 Contact

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Information: support@tandfonline.com

Written by the team that brought you the prestigious Dictionary of Natural Products (DNP), the Natural Products Desk Reference provides a concise overview of the key structural types of natural products and their interrelationship. A structurally diverse group, ranging from simple aliphatic carbon chains to high molecular weight proteins, natural products can usually be classified into one or more groups. The text describes these major types, including flavonoids, carbohydrates, terpenoids, polyketides, and lipids, and it illustrates them with accurate chemical structures, demonstrating the biosynthetic relationships between groups. Provides details of specialist natural products journals and journals in biochemistry, biology, medicinal chemistry, organic chemistry, pharmacy, pharmacology, and toxicology that may contain important information on natural products Includes types of names that can be used for natural products, comprising functional parent names, trivial names, systematic names, semisystematic names, and semitrivial names Covers stereochemistry topics specific to natural products Presents an overview of the natural world and its classification,

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focusing on organisms that are the richest sources of natural products Details known types of natural product skeletons with their numbering, or where there are skeletal variations within the group, an illustration is given of a representative example compound Discusses carbohydrate nomenclature impacts on stereochemistry, and on the nomenclature of compounds other than mainstream carbohydrates Reviews general precautions for handling chemicals in a laboratory environment, highlighting hazards resulting from the acute toxicological and pharmacological properties of some classes of natural products and hazards associated with the use of organic solvents In addition to being a companion resource to the DNP, the Natural Products Desk Reference provides you with a mass of other useful information which can sometimes be hard to track down. In compiling it, the authors have drawn on over 20 years of day-to-day experience in the description and classification of all types of natural product.

"The Dictionary of Marine Natural Products is a comprehensive database containing over 30,000 compounds. It is a subset of the Dictionary of Natural Products (DNP) database. ... entries referring to marine natural products were carefully checked and reviewed and enhanced with a considerable amount of additional information relating to their natural occurrence. ... The compounds

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present in the Dictionary have been classified under the following major headings, which are described in more [detail] in the Structural Types section below, available as a PDF file. (There are obvious overlaps between the categories.): aliphatic natural products, carbohydrates, oxygen heterocycles, simple aromatic natural products, terpenoids, steroids, aminoacids and peptidesthat, lkaloids, polypyrroles, biosynthetic information on these compound classes can also be found in the Structural Types section. Taxonomic information on the organisms and their metabolites is covered in the Classification of Organisms section available as a PDF file. The definition of a marine natural product is imprecise. The coverage of this Dictionary in terms of 'mainstream' natural products is intended to be comprehensive and as far as can be determined."--Introduction screen (viewed on Sept 29, 2010).

Metabolomics, the global characterisation of the small molecule complement involved in metabolism, has evolved into a powerful suite of approaches for understanding the global physiological and pathological processes occurring in biological organisms. The diversity of metabolites, the wide range of metabolic pathways and their divergent biological contexts require a range of methodological strategies and techniques. Methodologies for Metabolomics provides a

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comprehensive description of the newest methodological approaches in metabolomic research. The most important technologies used to identify and quantify metabolites, including nuclear magnetic resonance and mass spectrometry, are highlighted. The integration of these techniques with classical biological methods is also addressed. Furthermore, the book presents statistical and chemometric methods for evaluation of the resultant data. The broad spectrum of topics includes a vast variety of organisms, samples and diseases, ranging from in vivo metabolomics in humans and animals to in vitro analysis of tissue samples, cultured cells and biofluids.

This work presents a definitive interpretation of the current status of and future trends in natural products—a dynamic field at the intersection of chemistry and biology concerned with isolation, identification, structure elucidation, and chemical characteristics of naturally occurring compounds such as pheromones, carbohydrates, nucleic acids, and enzymes. With more than 1,800 color figures, Comprehensive Natural Products II features 100% new material and complements rather than replaces the original work (©1999). Reviews the accumulated efforts of chemical and biological research to understand living organisms and their distinctive effects on health and medicine Stimulates new ideas

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among the established natural products research community—which includes chemists, biochemists, biologists, botanists, and pharmacologists Informs and inspires students and newcomers to the field with accessible content in a range of delivery formats Includes 100% new content, with more than 6,000 figures (1/3 of these in color) and 40,000 references to the primary literature, for a thorough examination of the field Highlights new research and innovations concerning living organisms and their distinctive role in our understanding and improvement of human health, genomics, ecology/environment, and more Adds to the rich body of work that is the first edition, which will be available for the first time in a convenient online format giving researchers complete access to authoritative Natural Products content

The book summarizes important aspects of cheminformatics that are relevant for natural product research. It highlights cheminformatics tools that help to match natural products with their respective biological targets or off-targets, and discusses the potential and limitations of this approach.

This up-to-date summary of natural product chemistry in drug discovery will appeal to scientists, professionals, postgraduates and industrial chemists.

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"This volume brings together leading experts in the areas of nutrition, nutrigenomics, metabolic programming, food-based bioactive dietary components and the gut microbiome, as well as those expert in the application of innovative tools and methods for statistical and biological network analysis, which are now at the forefront of nutritional and biomedical sciences. The articles provide a roadmap for the integration of normative science methods and approaches with more comprehensive systems biology-based investigations that deploy a multitude of omic platforms. This integration is essential to escape the bottleneck in knowledge generation by applying decades of knowledge of nutrients and their function to comprehensive omics and clinical data acquisition, processing, visualization, and interpretation. Achieving a systems-level understanding of nutrient function in health and disease will usher in an age of precision nutrition in support of maximizing human health and potential"--

It is very important for scientists all over the globe to enhance drug discovery research for better human health. This book demonstrates that various expertise are essential for drug discovery including synthetic or natural drugs, clinical

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pharmacology, receptor identification, drug metabolism, pharmacodynamic and pharmacokinetic research. The following 5 sections cover diverse chapter topics in drug discovery: Natural Products as Sources of Leading Molecules in Drug Discovery; Oncology and Drug Discovery; Receptors Involvement in Drug Discovery; Management and Development of Drugs against Infectious Diseases; Advanced Methodology.

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