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BIBLIOGRAPHY OF VENOMOUS AND POISONOUS MARINE ANIMALS AND THEIR TOXINS

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Prepared by

Findlay E. Russell
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This bibliography includes a list of the titles and citations of most of the papers on the subject of venomous and poisonous marine organisms and their toxins published before 1981. It contains 6,779 citations listed by major phyletic group (principally by phylum). Also included is an author index.

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Arthropoda	Venomous fishes
Bryozoa	Sea snakes
Poisonous fishes	Marine mammals

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and
College of Pharmacy
University of Arizona
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1984

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INTRODUCTION

This Bibliography cites most of the papers on the subject of venomous and poisonous marine animals and their toxins published in scientific journals, governmental or major organizational reports, and many general or lay publications prior to 1981. It contains 6,779 citations, most of which have been gathered from the senior author's library and index files, accumulated over the past thirty-five years. In addition, some citations were gleaned from major reference works, such as those by Phisalix (1926), Pawlowsky (1927), Harmon and Pollard (1958), Kaiser and Michl (1958), Pigulevski (1962), Russell (1965), Halstead (1965-70), Kornalik (1967), Rosenfeld and Kelen (1969), Southcott (1975), Maretic (1975), and Hashimoto (1979). Most of these have been rechecked. Excellent sources of references have been the journal Toxicon and the symposia publications of the International Society on Toxinology, as edited by F.E. Russell and P.R. Saunders; A. De Vries and E. Kochva; A. Ohsaka, K. Hayashi, and Y. Sawai; F. Gubensek; P. Boquet; P. Rosenberg; and D. Eaker and T. Wadstrom.

The task of preparing suitable chapter headings was not an easy one. The present form was selected after it had been reviewed with several marine biologists, toxinologists, fisheries scientists, and taxonomists, as well as a physician and a librarian, all of whom were well informed about marine animals. Unfortunately, it was not possible to divide the chapters into subsections on anatomy, chemistry, pharmacology, clinical findings, et cetera, but since many of the articles contained data on several or many disciplines, unnecessary duplication, among other things, would have resulted.

In each chapter, citations refer to articles relating to the poisonousness or venomousness of the animal within the phylum, except in Chapters 9 and 10, where the papers on poisonous fishes (Chapter 9) have been separated from those on venomous fishes (Chapter 10).

Almost all references relate to marine organisms. In a few cases, some titles are cited for the toxins of fresh-water protistan, since the toxins are related or have special toxicological significance. A few references for fresh-water catfish, arthropods, and molluscs have also been noted. Some reports involving a marine toxin (e.g., tetrodotoxin) are cited even though most of the report deals with other subjects or poisons and the marine toxin has been mentioned only as a control or an agent of comparison. Many such papers involving marine toxins as tools are referenced in the Bibliography but some may have been overlooked. It would be impractical to include every work that mentions a marine toxin, for the Bibliography would then become unwieldy, as well as impractical as a source work. References related to the systematics or taxonomy of marine animals have not been cited, except when they also include a discussion of the venomousness or poisonousness of the animal.

All citations are arranged alphabetically by author. Unsigned articles are entered as "Anon." and are arranged in the chapter according to their year of publication. Names of authors are spelled as given in the original sources, except where known typographical errors have been made. Initials

are used for given names. Where initials were omitted in the original article, a dash (-) has been used.

When available, the volume number of a journal or book is given as the first number after the journal title, and it is underlined. In those cases in which a journal is not identified by a volume but by a number, the journal number is placed in parentheses, and it is not underlined. In some instances, particularly if a journal is difficult to obtain, or it has many separate numbers in a volume, both the journal volume and the number are given. In some cases, particularly for the older references where citations were difficult, all possible data are provided.

Citations for an author are entered chronologically. When the same author is the first of two authors, the second author is cited alphabetically and chronologically. When there are more than two authors with the same first author, the entry is cited last, alphabetically and chronologically. No more than five authors are cited for any one paper; if there are more than five authors, the first three are cited and et al. is entered for the remainder.

Brackets have been used when titles have been translated from languages other than German, French, Spanish, Italian, Dutch, or Portuguese. When referring to a specific page of a text, the citation might read "p. 95." When the total number of pages in a book is noted, the citation might read "95p."

In some instances, the title of a publication has not been underlined, as is the case for unpublished theses, dissertations, certain lay articles, and some technical reports that are not generally available. Also, those papers and letters that have not undergone a peer review have not been underlined, except in cases where a society or organization has been responsible for their contents. Abbreviated titles have been used for certain publishers whose books are common to the field of toxinology, such as Pergamon (Press), Academic (Press), Dawsons (William Dawson & Sons Ltd.), and several others.

We have not attempted to clarify taxonomy or the Latin spelling of a family, genus, or species in a title. We suggest that whenever questions arise the reader check the possible synonyms of the organism in an appropriate zoological text. In some articles the Latin names have been misspelled. We have not altered these.

The preparation of this Bibliography, continued over a decade, has provided its share of rewards, the most gratifying being the pleasure of discovering interesting and important papers heretofore unknown to workers in marine toxinology. There are many such references in this text, and reading through the original papers has been a pleasure well worth the time spent.

We apologize for all errors of omission and commission.

Findlay E. Russell
Tucson, Arizona
February 1, 1983

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There are many to whom acknowledgment must be given. Various libraries and librarians should be thanked for their assistance in obtaining hard-to-come-by articles, or for rechecking citations. Among those to whom the authors are particularly grateful are the librarians at the British Museum, Smithsonian Institution, Library of Congress, National Medical Library, Library of the Royal Society of Medicine, Norris and Hancock Libraries at the University of Southern California, University of Arizona Health Sciences Library, Library of the Zoological Society of London, Balfour Library at Cambridge, and the Bodelian at Oxford.

We are particularly indebted to Sharon Pruhs at the Los Angeles County/University of Southern California Medical Center Library and the several librarians of the Office of Naval Research, London, who made it possible to obtain rare manuscripts from various sources.

Thanks are also in order to Barbara Timmermann, Barbara Roth, Bertha Almagro, and Monica Rector for checking entries cited in French, Italian, German, Portuguese, and Spanish. Titles in Japanese, Chinese, Croatian, Slovene, Czechoslovakian, Polish, and Russian have, in many cases, been checked with the specific author(s), but in some instances we have translated the titles into English.

We are also indebted to the Commanding Officers and Chief Scientists of the London Office of Naval Research, who provided facilities for the rather extensive amount of work that had to be done in London. Among others who contributed to the Bibliography, in one way or another, were Igor and Alexandra Ferlan; Shoji Konosu; Yoshiro Hashimoto; Albert H. Banner, Raymond A. Bagnis, Bruce W. Halstead, Gerhard Habermehl, Albert L. Picchioni, Donald A. Thomson, John Paton; the "Sue assistants": Susanna Turner, Susan Mendyka, Belinda Lipka, and Jerry R. Brewer; and Nancy Mairs. Finally, we wish to thank Carol Ortega and the various members of the senior author's staff, who over the years assisted with filing and typing.

DEDICATION

This Bibliography is dedicated to my wife, Marilyn R. Russell, who by all rights should be an author, if for no other reason than for her patience in tracking down references in the British Museum, and elsewhere, during what was supposed to have been a vacation; and to Sir Frederick S. Russell, who has been a continuous source of inspiration, and whom I can still remember standing on the deck of a tug in the driving rain while greeting my family on the SS Liberte in the harbor at Plymouth in 1958.

CHAPTER I

EARLY WORKS

In this chapter, citations have been entered for works published before 1850. Some citations are to works translated or published after 1850, although written prior to that year. The choice of the year 1850 has been arbitrary. However, about that time marine toxinology began to emerge as a science, rather than a collection of anecdotes, myths, and folklore. Nevertheless, some of the earlier observations demonstrate an acute awareness of natural history, and they are still of significance to science.

This chapter is of particular importance to the scientist interested in developing the history of our knowledge about a particular venomous or poisonous marine animals or its toxin.

In some instances we have not been able to confirm citations, since the books could not be found. In such cases we have needed to rely on library cards. We have, insofar as possible, rechecked each title either in the Library of Congress or in the British Museum.

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CHAPTER II

GENERAL WORKS

This chapter contains citations for most of the important books, papers, and reports treating of the overall problem of venomous or poisonous marine animals, as well as those which deal with more than one or many of the animal's poisons. Some standard textbooks on marine animals have been included, when such books were found to contain a significant amount of data on the etiology of the animal's poisonousness, the general structure and function of the venom apparatus, or the general nature of marine animal toxins.

In some cases, works are cited when two or more marine toxins have been discussed in the body of presentation, particularly if such citations present comparative data. In those cases where specific data are involved, the citations in this Chapter will also be noted in the chapter dealing with that phylum.

A number of general works written between 1850 and 1910 touch upon venomous marine animals, but few of these contribute information beyond the texts cited in Chapter I, and for that reason they have not been noted.

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CHAPTER III

PROTISTA
(Protozoa and Algae)

References for the toxic Protista are cited in this chapter. Protista constitute a kingdom taxon suggested for the not-quite-plant/not-quite-animal ancestors of living things. The term is used to denote those unicellular plant and animal organisms which have remained at the simple cellular grade of construction. Among the protistans are various protozoans, unicellular algae, such as the diatoms and dinoflagellates; and the multicellular algae, such as the green, brown, and red algae, often classified with the Plantae. The marine Protista are widely distributed throughout neretic waters and in the high seas from the polar oceans to the tropics. At least 80 species are known to be toxic to man and other animals. Most of these are of the order Dinoflagellata.

The literature on the algae is massive. Separating marine from fresh-water algae also presents a problem. However, we have included most of the citations that we felt would be of interest to toxinologists, and we suggest, if additional information on algae is needed, that the reader consult the fine review of Schwimmer and Schwimmer (1968) and the several updates.

In general, when the term paralytic shellfish poisoning, mussel poisoning, clam poisoning, or Gonyaulax poisoning has been used the reference will be cited in Chapter VII, but when the article also attends to a protistan, the reference will be included in this chapter. If the article deals only with a dinoflagellate bloom, and not necessarily with poisonous molluscs, the title will appear only in this chapter. In some cases, where blooms, paralytic shellfish poisoning, Gonyaulax or clam poisoning, and fish poisoning are noted, the title may also appear in Chapters III, VII, and IX. However, readers desiring titles on paralytic shellfish poisoning should first consult Chapter VII.

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CHAPTER IV

PORIFERA
(Sponges)

Citations in this chapter treat of the toxic Porifera, or sponges. The Porifera are highly organized colonies of unicellular nomads composed of loosely integrated cells covered by a skin and, with few exceptions, supported internally by a skeleton of silica, calcite, or spongin. There are more than 10,000 species, most of which are marine.

Some sponges release a toxic substance into their environment, which serves as a warning or deterrent to approaching predators. Possibly the sponge releases this product as a continuous process, although it may also be stimulated by certain chemical or physical stimuli. Other functions of this excretion have been cited. With respect to humans, poisoning by sponges occurs through deposit by the toxin(s) in the very superficial abrasions produced by the animal's fine, sharp spicules.

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CHAPTER V

CNIDARIA
(Coelenterates)

This chapter lists the references that relate to the toxic Cnidaria, or Coelenterata (hydroids, jellyfish, sea anemones, and corals). These animals are simple metazoans possessing two basic tissues found in higher animals and a third tissue or layer of jelly-like material with supporting elastic fibers between the ectoderm and endoderm, known as mesoglea. They also have a gastrovascular cavity that opens only through the mouth, radial symmetry, and tentacles bearing nematocysts. The stinging unit of the cnidarians is the nematocyst, of which there are many kinds. Approximately 10,000 species of Cnidaria exist, and about 80 of these having been implicated in stings on humans. Some anemones are poisonous on ingestion.

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CHAPTER VI

ECHINODERMATA
(Echinoderms)

Citations treating of the venomous and poisonous echinoderms—the sea stars (starfishes), sea urchins, and sea cucumbers—will be found in this chapter. Approximately 85 of the 6000 species comprising four classes are known to be toxic.

In the asteroids (sea stars) the poison apparatus is thought to be associated with certain acidophilic cells in the epidermis. The toxin is discharged by these cells into the water or, as in the case of humans, directly onto the skin. In addition, sea stars have stinging cells, or pedicellariae, which contain a toxin. Some sea stars produce poisoning following ingestion.

The principal venom apparatus in the sea urchins is the glandular gemmiform or globiferous pedicellaria, which is a modified spine with a flexible head and three calcareous jaws, each having a rounded, tooth-like fang. Some secondary sea-urchin spines also contain a venom.

Some toxic sea cucumbers have special defense organs, which can be emitted through the anus. These may release a proteinaceous material. However, some sea cucumbers do not possess these Cuverian tubules; they discharge their toxin through the body wall. Humans eating these animals may be poisoned.

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CHAPTER VII

MOLLUSCA
(Snails, Slugs, Squids and Octopuses, Mussels, Clams, Oysters)

Citations in this chapter relate to the venomous and poisonous gastropods, pelecypods, and cephalopods. Among the venomous gastropods are members of the genus Conus, of which there are approximately 400 species, most confined to the shallow waters of tropical and subtropical seas and oceans. Among the pelecypods are the bivalves, clams, mussels, and oysters, often implicated in paralytic shellfish poisoning. Some octopods are a danger to man, and some squid have been reported to be poisonous.

References to paralytic shellfish poisoning, mussel or clam poisoning, or Gonyaulax poisoning will usually be found in this chapter if a mollusc is involved. If the article deals only with the protistan and its poison, the citation will be found in Chapter III.

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CHAPTER VIII

PLATYHELMINTHES, NEMERTEA, ANNELIDA, ARTHROPODS, AND BRYOZOA

The phylum Platyhelminthes, the flatworms, are characterized by flat and bilaterally symmetrical, unsegmented bodies, ciliated epidermis, and definite anterior and posterior ends. They have both circulatory and respiratory systems. The carnivorous turbellarians, of which there are approximately 2,000 species, are thought to be the only group of flatworms that are toxic.

The Nemertea, or ribbon worms, are a small group of slender, unsegmented worms distinguished from the Platyhelminthes by their rounded unsegmented body, which usually tapers somewhat toward one or both ends. They have a prominent, eversible proboscis, a circulatory system, and a digestive system with a mouth and anus. Most of the 800 living species are marine. Envenomation takes place through the threadlike proboscis, which is extended explosively during the capture of prey or on handling.

The Annelida, or bristle worms, blood worms and polychaete worms are elongated, segmented, bilaterally symmetrical; segments resemble each other essentially in both their external and internal appearances. They have a nonchitinous cuticle, although most members have chitinous setae, and a complete digestive system, a closed circulatory system, and, in some species, a well-developed chitinous jaw. The toxicity of the marine annelids is associated with their bristle-like setae or their biting jaws. Some species contain a poison within their bodies.

Arthropods make up the largest phylum in the animal kingdom, some one million species. The phylum includes the crabs, shrimps, barnacles and other crustaceans, spiders, scorpions, insects, ticks and their allies, centipedes, and millipedes. They have bodies that are segmented externally in varying degrees and often show a divided head, thorax, and abdomen. The appendages are joined, and their external surfaces are covered by an organic exoskeleton. Arthropods have a complete digestive tract with a terminal anus and a lacunar circulatory system; they respire by means of gills, air ducts, and book lungs, or through the body surface. Most of the poisonous marine arthropods are crabs found in the class Merostomata (Chelicerata), the horseshoe crabs.

The Bryozoa and Entoprocta are small, sessile, tufted or branched colonial animals bearing a hardened exoskeleton and a true coelom but no circulatory, respiratory or excretory organs. They reproduce by budding. Of the 4,000 or so species only a few have been found to be toxic or have been implicated in medical problems involving humans.

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CHAPTER IX

POISONOUS FISHES

This chapter presents the citations relating to the poisonousness of fishes. Poisonous fish have been defined as those whose tissues, either in part or in their entirety, are toxic, and which do not possess a specific mechanism, such as a spine or tooth, for delivering their toxin.

Insofar as is known, most ichthyotoxic fishes produce their toxins as by-products or products of metabolism, not necessarily associated with either their offensive or defensive statures. The poisonous fishes have been further divided into ichthyosarcotoxic, ichthyootoxic, ichthyohemotoxic, and crinotoxic. Ichthyosarcotoxism is generally identified by the kind of fish involved: elasmobranch, chimaeroid, clupeoid, ciguatera, tetraodon, scombroid, or hallucinatory fish poisoning. Those fishes which elaborate a toxin through their skin, as a defensive mechanism, have been called crinotoxic. Citations to the venomous fishes, as defined in Chapter X, are found in that chapter.

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CHAPTER X

VENOMOUS FISHES

Citations in this chapter relate to those fishes that are venomous, that is, those fishes which have a gland or group of highly specialized secretory cells, a venom duct (although this is not a constant finding), and a structure for delivering the venom. In some citations, the evidence for the venomousness of the fish has not been established, but such references have been included. Fishes that do not have a mechanism for the delivery of their toxin, including the crinotoxic fishes, are noted in Chapter IX.

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CHAPTER XI

SEA SNAKES

The venomous sea snakes are composed of two families, the Hydrophiidae, or true sea snakes, and the Laticaudae, or sea kraits. There are approximately 60 marine and one fresh water species. One species, Pelamis platurus, ranges from the west coast of Latin America to the Pacific and Indian Oceans and the east coast of Africa. In general, sea snakes inhabit coastal waters, particularly near the mouths of rivers. Since they require air, sea snakes live at depths from which they can reach the ocean bottom yet gain the surface for air. Like the terrestrial elapids, they have two small fangs situated in the anterior upper jaw. The venom is produced in the venom glands and transferred to the fangs by means of venom ducts, as in other venomous snakes. More than 20 species of sea snakes have been implicated in bites on humans.

Although some terrestrial venomous snakes may frequently be found in marine waters, references to these have not been cited in this text. The reader is referred to citation 6405 for a discussion of the sea snakes.

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CHAPTER XII

MARINE MAMMALS

Citations in this chapter relate to the poisonous marine mammals, chiefly the seals and polar bears. As can be seen, there have been few original reports on the toxicity of marine mammalian tissues, which in most cases is due to hypervitaminosis A. The classic work on the subject is that by Rodahl (reference 6769).

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