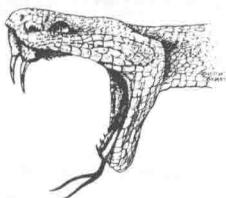


# **Bibliography of Snake Venoms and Venomous Snakes**



Russell & Scharffenberg

# **Bibliography of Snake Venoms and Venomous Snakes**



by  
Findlay E. Russell  
and  
Richard S. Scharffenberg

Laboratory of Neurological Research  
Loma Linda University  
Los Angeles County Hospital

Bibliographic Associates, Inc.  
West Covina, California

# **Bibliography of Snake Venoms and Venomous Snakes**

Copyright© 1964

Findlay E. Russell

Library of Congress Card Number 64-25189

Distributed outside the United States by  
Pergamon Press Ltd., Oxford, England,  
pursuant to special arrangement with

Bibliographic Associates,  
725 South Orange Avenue,  
West Covina, California.

Printed in the United States of America by  
George Rice and Sons  
Los Angeles, California

## PREFACE

This Bibliography cites most of the papers on snake venoms written and published prior to 1964, although it has not been possible to include all the articles on venoms for the years 1963-64. It contains some 5829 citations, most of which have been collected over the past 10 years. Approximately 900 reprints were available in the senior author's library, and along with abstracts on some 1600 additional articles, provided the basis from which the work was initiated. Additional invaluable data was obtained from:

- Klauber, L. M. Rattlesnakes. Their Habits, Life Histories, and Influence on Mankind. University of California Press: Berkeley, 1956.
- Kaiser, E. and Michl, H. Die Biochemie der tierischen Gifte, Franz Deuticke: Wien, 1958.
- Phisalix, M. Animaux Venimeux et Venins. Masson et Cie.: Paris, 1922.
- Harmon, R. W. and Pollard, C. B. Bibliography of Animal Venoms. University of Florida Press: Gainesville, 1948.

We have attempted to read or check every paper or text, but in some instances this has not been possible and we have found it necessary to refer to an abstract or reference in an abstracting journal for the desired information. Some papers, which mention snake venoms or fractions of snake venoms only as tools for studies in certain chemical reactions, have been excluded because it was felt that these articles would not be of interest to those working in the field of venomology. However, we have included the greater number of these where data is given indicating some characteristic or zootoxicological property of the venom or venom fraction. Some references have also been excluded because there was not sufficient evidence to indicate that the snake in question was indeed venomous. On the other hand, several recent papers, describing heretofore relatively unknown snakes that may be poisonous, have been included where the evidence presented is sufficient to demonstrate that the snakes involved may indeed be venomous.

The task of preparing an index for this volume has been a formidable one. The form of the present index was arrived at after considerable experimentation, during which several sample indices were prepared from random groups of 100 articles. Trial showed that cross referencing on the basis of significant words or topics produced an index too large to be useful. It also showed the impracticability of several other forms, which were only useful within specific disciplines such as herpetology, biochemistry, or clinical medicine. The present index, arranged according to subject and senior author, although not entirely satisfactory, provides a rapid and practical means for reviewing the literature on almost any area of venomology, as it relates to snakes. The authors feel that in spite of its deficiencies the index represents the most useful of the possible alternative forms.

Since it was not possible in most cases to cite a paper in more than one place in the subject index, some problems of classification were solved arbitrarily. Many articles treat of problems in venom chemistry, pharmacology, immunology and clinical medicine (this is particularly true of the older literature), and we have endeavored to cite these in that section where the greatest emphasis in subject matter has been placed. In each section we have indicated where related articles can be found. Papers which deal with more than one family of snake, or with several physiopharmacological properties of the venom, will usually be cited in the general category of the individual sections rather than under a specific family or property.

All citations are arranged alphabetically by author within each subject category. Unsigned articles are quoted as "Anon.", and are arranged in the section according to their year of publication. A serial number is assigned to each entry and the reference is cited by this number in the Senior Author Index. Authors' names are spelled as given in the original source 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. Surnames of Russian, Japanese, Chinese, etc., authors are entered in the transliterated form.

The form of citation for the journal references is as follows: name of author(s) (last name, followed by initials); title of article; journal name; volume number; number, in parenthesis, in some citations; first page number and year of publication. Brackets have been placed about the titles of those articles which have been translated into English. Citations of books follow the general form of: author(s), title of book, publisher, city where book was published, total pages (460p.), or specific page where references starts (p. 460), and year of publication. Information on edition, number of volumes, etc., may also be noted. In the abbreviations for journals we have sought to follow the format used in "World List of Scientific Periodicals Published in the Years 1900-1950, Third edition, 1952."

The Appendix contains those citations which we were not able to verify but which appeared in the articles or texts studied during preparation of the Bibliography. Supplements to this Bibliography will be published every five years and we shall be grateful if the users of this text will send us omitted references for inclusion in the supplements. Bibliographies on "Arthropod Venoms and Venomous Arthropods" and "Marine Toxins and Toxic Marine Animals" will be published during 1965-66.

The time involved in the preparation of this Bibliography has been a considerable one, but one not without its compensations, the most rewarding of which has been the satisfaction derived on the discovery of interesting and important papers heretofore unknown to the workers in the field. There are many such papers in this Bibliography, and reading through them has been a pleasure well worth the time spent.

May we apologize for all errors of omission and commission.

Findlay E. Russell

Cambridge, England  
December 29, 1963.

#### ACKNOWLEDGMENT

No undertaking of the present nature could be accomplished without the assistance of our many colleagues and friends. Although it would be impossible at this writing to name all of those who have contributed information for this volume, we wish to thank each one of them for his assistance and patience.

In particular, we wish to acknowledge the substantial assistance we have received from Mr. R. Hughes of the Balfour Library, University of Cambridge; Dr. J. F. Gennaro, Jr. of the University of Louisville and his student, Mr. L. Daly; Mr. E. Moser of the Biology Library at the California Institute of Technology, Mrs. E. Crandall and Mr. S. Zimmer of the staff of the Los Angeles County Hospital Library, Mrs. G. Werner of the library staff at the University of California at Los Angeles, and Mrs. Ruth C. Monahan and staff at the Medical Library of the University of Southern California.

In addition, we appreciate the indulgence of our staff whose long hours of typing and rechecking have permitted us to enjoy ourselves in many dark and dusty corners of libraries and book stores in London, Paris, Vienna, Stockholm, Washington, Los Angeles and New York in search of the material for this volume.

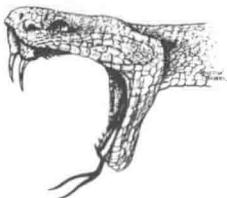
Finally, we would like to thank the following by name for assistance in various ways too numerous to specify: Mrs. Y. Majerus, Mr. P. Meadows, Mr. H. Gonzalez, Mr. T. Davidson, Mrs. J. Russell, Miss A. Qualia, Mr. C. Pope, Dr. P. Boquet, Dr. H. Michl, Dr. J. W. Abalos, Dr. L. M. Klauber and Prof. J. K. Clark.

## TABLE OF CONTENTS

	Page	Reference
Preface .....	iii	
Acknowledgment .....	v	
I. Articles Prior to 1850.....	3	1- 163
II. General Biology of Venemous Snakes.....	9	200- 248
A. North America .....	11	300- 406
B. South and Central America.....	14	500- 537
C. Europe .....	15	600- 626
D. Africa .....	16	700- 740
E. Asia .....	17	800- 861
F. Australia and Pacific.....	19	900- 919
G. Sea Snakes .....	19	1000-1014
III. Venom Apparatus .....	21	1100-1166
IV. Collection and Control of Venomous Snakes, Including Prevention of Snakebite. Extraction, Yield and Storage of Venom.....	24	1200-1260
V. General Biological Effects of Snake Venoms.....	26	1300-1480
A. Elapidae and Colubridae.....	31	1500-1531
B. Crotalidae .....	32	1600-1633
C. Viperidae .....	33	1700-1729
D. Hydrophiidae .....	34	1800-1815
VI. General Chemistry of Snake Venoms.....	35	1900-2007
A. Elapidae and Colubridae .....	39	2100-2175
B. Crotalidae .....	42	2200-2282
C. Viperidae .....	45	2300-2334
VII. Enzyme Chemistry of Snake Venoms.....	47	2400-2491
A. Elapidae and Colubridae .....	50	2500-2539
B. Crotalidae .....	52	2600-2675
C. Viperidae .....	55	2700-2706
VIII. Physiopharmacology and Toxicology, General.....	56	2800-2974
A. Elapidae and Colubridae.....	62	3100-3225
B. Crotalidae .....	66	3300-3402
C. Viperidae .....	69	3500-3564
IX. Physiopharmacology and Toxicology, Cardiovascular.....	72	3600-3614
A. Elapidae and Colubridae.....	72	3700-3730
B. Crotalidae .....	74	3800-3823
C. Viperidae .....	75	3900-3905

	Page	Reference
X. Physiopharmacology and Toxicology, Blood.....	76	4000-4140
A. Elapidae and Colubridae.....	81	4200-4286
B. Crotalidae .....	84	4300-4391
C. Viperidae .....	88	4400-4465
XI. Physiopharmacology and Toxicology, Nervous System.....	91	4500-4524
A. Central Nervous System, Cerebrospinal Fluid.....	92	4600-4620
B. Peripheral Nervous System, Neuromuscular Junction.....	93	4700-4739
XII. Immunology and Antivenin .....	95	4800-5089
A. Elapidae and Colubridae.....	105	5100-5186
B. Crotalidae .....	108	5200-5297
C. Viperidae .....	112	5300-5407
D. Hydrophiidae .....	116	5500-5503
XIII. Snakebite .....	117	5600-5710
A. North America.....	120	5800-6209
B. South and Central America.....	131	6300-6387
C. Europe .....	134	6400-6592
D. Africa .....	139	6600-6679
E. Middle East .....	142	6700-6723
F. Asia .....	142	6800-7063
G. Australia and Pacific.....	150	7100-7202
H. Sea Snakes .....	153	7300-7309
XIV. Pathology and Bacteriology.....	154	7400-7500
XV. Complications of Snake Venom Poisoning and Treatment.....	159	7600-7691
XVI. Snakebite or Poisoning in Animals Other than Man.		
Immunity or Lack of Immunity in Animals.....	163	7700-7772
XVII. Experimental Therapeutics.....	166	7800-7928
XVIII. Uses of Snake Venoms.....	172	8000-8920
A. General, Medical .....	172	8000-8107
1. Diagnosis .....	175	8200-8269
2. Cardiovascular Diseases .....	178	8300-8396
3. Infectious and Inflammatory Diseases.....	181	8400-8432
4. Nervous System, Pain .....	182	8500-8634
5. Cancer .....	187	8700-8745
B. General, Biological and Chemical.....	188	8800-8920
XIX. Folklore, Myths, Superstitions, and Primitive Treatment and Uses.....	194	9000-9060
XX. Appendix .....	197	9100-9173
Index of Senior Authors.....	201	

# **Bibliography of Snake Venoms and Venomous Snakes**



by  
Findlay E. Russell  
and  
Richard S. Scharffenberg



## I. ARTICLES PRIOR TO 1850

This section treats of the more important books and articles written and published on the venomous snakes and their toxins, and the clinical problem of snake venom poisoning, prior to the year 1850 A. D. The number of references to the subject between 100 B. C. and 1850 A. D. must exceed many hundreds. Unfortunately, it has not been possible to include the greater part of these references in the Bibliography. Instead, we have selected a number of texts and papers which tend to summarize the state of knowledge at the time they were written. (In some cases we have selected certain articles on the basis of their unusual interest or their reference to lists of papers related to the field of venomology.)

Much of the knowledge of this period comes down to us through the work of Pliny. So frequently quoted are Pliny's works that Hulme commented:

"Several writers of antiquity influenced the mediaeval authors, but it is scarcely necessary to detail their labours at any length, since if they lived before Pliny he borrowed from them, and if they lived afterward they borrowed from him, so that we practically in Pliny get the pith and cream of all."

More recent works on reptiles, such as Phasalix' Animaux Venimeux et Venins and Klauber's Rattlesnakes, cite many early references on the subject of venomous snakes and should be consulted if more specific information on these animals is desired.

The greater portion of the references in this section are of interest because they indicate the historical development in our knowledge of snake venoms prior to 1850. However, some of these texts and papers are as important to our understanding of the actions of snake venoms today as they were the day they were written, and these might just as easily have been placed in the sections on Chemistry (VI), Physiopharmacology and Toxicology (VIII), and Pathology and Bactériology (XIV). It has seemed best, however, for the purpose of this Bibliography, to record all literature published prior to 1850 in this section.

1. ABBATIUS, B. A. *De Admirabili Viperae.* Hagae, 186p., 1589.
2. ACRELL, J. G. *De Morsura Serpentum.* Linnaei, Amoenit. Acad. 6, 97, 1762.
3. ADAMS, F. *The Seven Books of Paulus Aegineta.* Translated by F. Adams, 3 vol., London, 1844-7.
4. AELIANUS, C. *De Historia Animalium.* Tiguri, 1555.
5. ALDROVANDUS, U. *Serpentum et Draconu Historiae.* Bononiae, 427p., 1640.
6. ALESSANDRINI, \_\_\_. *Ricerche sulle glandoli salivali dei Serpenti a denti solcati o velenifera confrontate con quelle proprie delle specie non velenate di Schlegel.* G. polygr., Verone, 28, 47, 1832.
7. ALOS, J. *Dissertatio de Viperis.* Paris, 1664.
8. ALSAHARAVIUS, (c. 936). See Spencer, W. G.
9. ANDRIEUX, \_\_\_. *Coup d'oeil sur les accidents causés par la morsure des serpents venimeux, enumeration des différents moyens employés pour les combattre.* J. connaiss. méd. pharm., p. 181, 1849.
10. ANON. (The negro Caesar's cure for poison.) *Carol. Gaz.*, May, 1750.
11. ANON. (Negro saves his master.) *Ann. Reg.*, London, 9, 91, 1766.
12. ANON. (Deaths by rattlesnake bite.) *Gentleman's Mag.* 79, 1071, 1809.
13. ANON. *Venomous serpents.* *Penny Mag.* 1, 235, 1832.
14. ARISTOTLE, (384-322 B. C.). See Ogle, W.
15. AUDUBON, J. J. *Notes on the rattle-snake (Crotalus horridus), in a letter addressed to Thomas Stuart Traill,* M. D. Edinb. new Phil. J. 3, 21, 1827.
16. AUZOUX, L. J. *Dissertation sur la Vipere.* Thèse, Paris, 1822.
17. BAILLIE, A. *Bite of a rattlesnake.* Med. Times 20, 179, 1849.
18. BARSTOW, S. T. *Account of the singular effects from the bite of rattle-snake.* Phila. med. Mus. 3, 61, 1807.
19. BARTON, B. S. *An account of the most effectual means of preventing the deleterious consequences of the bite of the Crotalus horridus, or rattle-snake.* Trans. Amer. phil. Soc. 3, 100, 1793.
20. BARTON, B. S. *A memoir concerning the fascinating faculty which has been*

- ascribed to the rattle-snake, and other American serpents. Trans. Amer. phil. Soc. 4, 74, 1799; see also separate, Philadelphia, 70p., 1796.
21. BARTRAM, J. A letter from John Bartram, M. D., to Peter Collinson, F. R. S. concerning a cluster of small teeth observed by him at the root of each fang or great tooth in the head of a rattle-snake. Phil. Trans. 41, 358, 1744.
  22. BAUQUIER, S. A. DE Observation d'une morsure de vipère. J. Sci. méd., Paris, 28, 377, 1827.
  23. BEAUVOIS, P. DE Memoir on Amphiobia. Serpents. Trans. Amer. phil. Soc. 4, 362, 1799.
  24. BELL, T. History of British Reptiles. van Voorst: London, 1849.
  25. BERNARD, C. Action physiologique des venins. Mem. Soc. Biol., Paris, p. 90, 1849.
  26. BIGLAND, J. Natural History of Birds, Fishes, Reptiles, and Insects. Philadelphia, 179p., 1828.
  27. BLOT, J. C. Dissertation sur la morsure de la Vipere fer-de-lance. Theses, Paris, 1823.
  28. BOAG, W. On the poison of serpents. Asiat. Res. 6, 103, 1799. ✓
  29. BONAPARTE, G. L. Analyse du venin de vipère et découverte de la vipérine. Gazz. tosc. Sci. med. F., p. 169, 1843.
  30. BOOTH, (Dr.) Account of a South American remedy for the bite of poisonous reptiles and rabid animals denominated Algelia, Yerba del Sapo, or Contra Culebra. New Engl. J. Med. Surg. 3, 322, 1814.
  31. BOSC, L. A. G. (Crotale, Vipère.) In, Nouveau Dictionnaire d'Histoire Naturelle. 24 vol., Deterville: Paris, 1803-4.
  32. BOZEMAN, N. A case of amaurosis, resulting from a snake bite. New Orleans med. surg. J. 6, 739, 1850.
  33. BREINTAL (BREINTNALL), J. A letter ... to Mr. Peter Collinson, F. R. S. containing an account of what he felt after being bit by a rattle-snake. Phil. Trans. 46, 147, 1748.
  34. B., J. (probably J. Breintnall). Remarkable and authentic influences of the fascinating power of the rattle-snake over man and other animals, with other curious particulars, Communicated by Mr. Peter Collinson, from a letter of a Correspondent at Philadelphia. Gentleman's Mag. 35, 511, 1765.
  35. BRICKELL, J. Miscellaneous chemical and medical facts, observations and conjectures. Philadelphia med. phys. J. 2, 101, 1805.
  36. BRICKELL, J. Effects of alkalies on poisons. Med. Reposit., 2nd hexade, 2, 441, 1805.
  37. BUDD, T. Good Order Established in Pennsylvania and New-Jersey in America. (W. Bradford: Philadelphia) 1685.
  38. CAMERARIUS, E. Dissertationes epistolico-physico-medicae. Tubing, 1712.
  39. CANTOR, T. Observations upon pelagic serpents. Trans. zool. Soc. Lond. 2, 303, 1841.
  40. CARDQSE, \_\_\_. Des effets d'une piqûre faite par la dent d'une vipère morte. Ann. Soc. Med. prat. Montpellier, s. 2, 1, 179.
  41. CAYOL, \_\_\_. Rage communiquée par la morsure d'un chien, essais de traitement par l'arsenic, l'hydrogène sulfure et par le venim de la Vipère, mort 70 heures apres l'invasion des premiers symptômes; nécropsie. Rev. méd. 3, 387, 1831.
  42. CELSUS, A. C. (50 B. C. - 7 A. D.). See Spencer, W. G.
  43. CESENOS, A. D. De Suspectis de Haeresi. Rome, 1703.
  44. CHARAS, M. Nouvelles Experiences sur la Vipere. Paris, 218p., 1669.
  45. CHARAS, M. New Experiments upon Vipers. London, 223p., 1670.
  46. CHARAS, M. Suite des Nouvelles Experiences sur la Vipere. Phil. Trans. 7, 4073, 1672; see also 7, 5082, 1672.
  47. CHARAS, M. New Experiments upon Vipers... Also a letter of Francisco Redi, concerning Some Objections Made upon His Observations about Vipers... Together with the Sequel of New Experiments upon Vipers, in a Reply to a Letter Written to Sign. F. Redi. London, 1673.
  48. CHEVALLIER, T. Lettre sur l'efficacité de l'arsenic sur la morsure des serpents. Rec. périod. Soc. méd. Paris 3, 409.
  49. CHRISTISON, R. A Treatise on Poisoning. Adam Black: North Bridge, p. 549, 1832.
  50. CLARKE, R. W. Dreadful effort to cure elephantiasis and leprosy by receiving the bite of a rattlesnake. Lancet 1, 443, 1838.
  51. CLOQUET, H. Faune des Medecins. 6 vol., Chez Crochard: Paris, 1822-28.
  52. COLBATCH, J. Cure of the Bite of a Vipere. London, 1698. ✓
  53. CORBYN, F. Bite of a rattlesnake. Lancet 2, 929, 1839. ✓

54. COSTE, . Sur les effets de l'eau de Luce dans la morsure de la Vipère. J. Méd. 33, 524, 1770.
55. COSTER, . Prophylactique du venin de la vipère. Clin. Hôp. 3(43), 1828.
56. DAUDIN, F. M. Histoire Naturelle, Générale et Particulièrre des Reptiles. 8 vol., Paris, 1801-04.
57. DAVY, J. Sur les pierres de serpents. Trans. Soc. Inst. Bengal 8, 317, 1820.
58. DEANE, J. B. The Worship of the Serpent. London, 391p., 1830. ✓
59. De MAYERNE, T. A discourse of the Viper. Phil. Trans. 18, 162, 1694.
60. DESMOULINS, A. Note sur l'appareil sécréteur du venin chez le serpent à sonnettes. J. Phys. Expér. Path. Magendie, 7, 109, 1827.
61. DUDLEY, P. An account of the rattle-snake. Phil. Trans. 32, 292, 1723.
62. DUGÈS, A. Résumé zoologique sur les deux viperes de France, Vipera aspis et Pelias berus. Mém. Soc. Biol. 2, 115, 1850.
63. DUSOURD, . Effets remarquables de l'huile d'olive employée à l'intérieur et à l'extérieur dans les cas de morsure de Vipère. Bull. Thér. 27, 489, 1849.
64. DUVERNOY, G. L. Caractères anatomiques pour distinguer les serpents venimeux. Ann. Sci. nat. 26, 113, 1830; see also 30, 5, 1832.
65. FONTANA, F. Traité sur le Vénin de la Vipere, sur les Poisons Amer- cains, sur le Laurier-Cerise et sur quelques autres Poisons végétaux. On y a joint des Observations sur la Structure primitive du Corps animal, différentes Expériences sur la Reproduction des Nerfs et la Description d'un nouveau Canal de l'Oeil. 2 vol., Florence, 1781.
66. FONTANA, F. Treatise on the Venom of the Viper. 2 vol., Paris, 1781. ✓
67. FRANZIUS, W. Historia animalium in qua plerumque animalium praecipuae proprietates in gratiam studiosorum theologiae et ministrorum verbi ad usum breviter accommodantur. Am- sterdam, 1665.
68. FRIVALDSZKY, . Monographia Ser- pentum Hungariae. 1823.
69. GALE, B. Extract of a letter from Mr. Benjamin Gale, a physician in New England... Concerning the successful application of salt to the wounds made by the biting of rattlesnakes. Phil. Trans. 55, 244, 1766.
70. GARDEN, A. Memoir on the fascinating power of serpents. Amer. mon. Mag. crit. Rev. 2, 55, 1817.
71. GESNER, C. Historiae Animalium, Liber V, Qui est de Serpentum Natura. Tiguri, 1587.
72. GOSSE, P. H. Natural History: Reptiles. London, 293p., 1850.
73. GRAY, E. W. Observations on the class of animals called, by Linnaeus, Amphibia, particularly on the means of distinguishing those serpents which are venomous, from those which are not so. Phil. Trans. 79, 21, 1789.
74. GREVIN, J. Deux Livres des Venins. Anvers, 333p., 1568.
75. GRIFFITH, E. and PIDGEON, E. The Class Reptilia Arranged by the Baron Cuvier. In, vol. 9 of Cuvier's The Animal Kingdom. London, 481p., 1831.
76. HALL (Capt.) An account of some experiments on the effects of the poison of the rattlesnake. Phil. Trans. 35, 309, 1727.
77. HAYNESWORTH, J. Some account of the success of the plant called jestis-weed, in curing the disease induced by the bites of the rattle-snake and other venomous serpents. Philadelphia med. phys. J. 3, 57, 1808. ✓
78. HERING, C. Some cases cured by Lachesis. Brit. J. Homoeop. 2, 369, 1844.
79. HERNANDEZ, F. Quatro Libros de la Naturaleza, y Virtudes de las Plantas, y Animales que Estan Receividos en el Uso de Medicina en la Neuva Espana- Mexico. Diego Lopez Daualos, 1615.
80. HOIT, M. Snake bites. Boston med. surg. J. 30, 243, 1844.
81. HOLBROOK, J. E. North American Herpetology, or a Description of the Reptiles Inhabiting the United States. 4 vol., J. Dobson: Philadelphia, 1836-40.
82. HOME, E. The case of a man, who died in consequence of the bite of a rattle- snake. Phil. Trans. 100, 75, 1809.
83. HORNER, W. E. Post-mortem examination of a patient who died from the bite of a rattlesnake (Crotalus horridus). Amer. J. med. Sci. 8, 379, 1831.
84. HOUTTUYN, M. Natuurlyke Historie. 17 vol., 1761-72. Amsterdam.
85. JONES, T. P. The romance of rattle- snakes. Franklin J. 6, 144, 1828.
86. JONSTONUS, J. Historiae Naturalis de Serpenibus, Libri II. Francofurti, 40p., 1653.
87. JUSSIEU, B. DE Sur les effects de l'eau de luce contre la morsure des vipères. Mém. Acad. R. Sci., Paris, p. 54, 1747.
88. KALM, P. An account of the rattle-snake and the cure of its bite, as used in North America. Med. Chir. Anat.

- Cases and Experiments. London, p. 282, 1758.
89. KING, E. P. Bite of a "copper head" successfully treated by indigo. *Annalist* 2, 229, 1848.
90. KNOX, R. On the mode of growth, reproduction, and structure of the poison fangs in serpents. *Mem. Werner nat. Hist. Soc.* 5, 411, 1826.
91. LACÉPÈDE, B. G. E. *Historie Naturelle des Quadrupedes Ovipares et des Serpens.* 2 vol., Paris, 1788-9.
92. LEMPRIERE, W. Popular Lectures on the Study of Natural History and the Sciences, Vegetable Physiology, Zoology, the Animal and Vegetable Poisons. 2nd Ed. Whittaker, Treacher, and Co.: London, 1830.
93. LOVELL, R. *Panzoologicomineralogia or a Compleat History of Animals and Minerals.* H. Hall for J. Godwin: Oxford, 1661.
94. MAIMONIDES, M. (1135-1204). See Wooton, A. C.
95. MAYRANT, W. On the use of alcohol in the disease produced by the bite of the rattlesnake. *Amer. med. Rec.* 6, 619, 1823.
96. MEAD, R. A Mechanical Account of Poisons in Several Essays. Brindley: London, 1745.
97. MEASE, J. On snake stones and other remedies for the cure of diseases produced by the bites of snakes and mad dogs. *Philadelphia med. Mus.* 5, 1, 1808.
98. MILLER, J. On the effects of oil in cases of the bite of serpents. *Med. Deposit.* 2, 253, 1799.
99. MOMPELLIER, \_\_\_. Des Accidents produits chez l'homme, et dans les trois premières classes des animaux vertébré, par le vipere fer-de-lance. Paris, 1834.
100. MONGIARDINI, \_\_\_. Essai d'expériences sur le mode d'action du venin de la Vipère dans l'économie animale. *Analys. Bibl. Méd.* 16, 257, 1807.
101. MOORE, I. Cases showing the efficacy of the volatile alkali in the bites of venomous snakes. *Amer. J. med. Sci.* 1, 341, 1828.
102. MORTIMER, C. A narration of the experiments... On a man, who suffer'd himself to be bit by a viper. *Phil. Trans.* 39, 313, 1736.
103. MOSELEY, B. A Treatise on Tropical Diseases. 3rd Ed. T. Cadwell: London, 1792.
104. NASH, A. The fascination of snakes. *Amer. J. Sci. Arts* 12, 368, 1827.
105. NICANDER (c. 135 B.C.). See Gow, A. S. F.
106. NICHOLLS, F. An Appendix Containing an Anatomical Description of those Parts in a Viper, and in a Rattlesnake, Which are Concerned in Their Poison. London, 320p., 1745.
107. NIEREMBERG, J. E. *Historia Naturae. Plantiniana B. Moreti: Antverpiae,* 1635.
108. OLIGERUS, J. *Anatomia Serpentum et Viperarum. Acta Hafniensis* 5, 265, 1677.
109. ORFILA, M. P. Directions for the Treatment of Persons who have taken Poison, and those in a State of Apparent Death. London, 248p., 1820.
110. ORFILA, M. P. A General System of Toxicology. Translated by Waller, J. A., 2nd Ed., 2 vol. and appendix, London, 1821.
111. OWEN, C. An Essay towards a Natural History of Serpents. *J. Gray: London*, 1742.
112. PHILIPS, H. B. Case of poison by rattlesnake. *Amer. J. med. Sci.* 8, 540, 1831.
113. PLATT, T. An extract of a letter from Mr. T. Platt, from Florence, Aug. 6, 1672, concerning some experiments made there upon vipers. *Phil. Trans.* 7, 5060, 1672.
114. PLINIUS, Secundus C. The Histoire of the World. Commonly called The Natural Histoire of C. Plinius Secundus. Translated by Holland, P., London, 1601.
115. POLETTA, G. B. Sul morso della vipera. *Mem. imper. reg. Inst. Lombardia*, 2(2)1, 1821.
116. PRESTWICH, J. Prestwich's Dissertation on Mineral, Animal, and Vegetable Poisons; containing a Description of Poisons in general, their Manner of Action, Effects on the Human Body, and respective Antidotes; with Experiments and Remarks on Noxious Exhalations from Earth, Air and Water. Together with several extraordinary cases. 8 vol., London, 1775.
117. QUÉNOT, H. Des Animaux Venimeux de la France, 21p., 1835.
118. RACKETT, T. Observations on a viper found in Cranborne Chace, Dorsetshire. *Trans. Linn. Soc. Lond.* 12, 349, 1818.
119. RAFFENEAU-DELILLE, \_\_\_. Indications de thérapeutique directe des morsures les plus vénenées. *J. Physiol. Magendie* 7, 110, 1827.
120. RAFINESQUES, C. S. Natural history of *Scytalus cupreus*, or the copper-head snake. *Am. J. Sci.* 1, 84, 1818.

121. RANBY, J. The anatomy of the poisonous apparatus of a rattle-snake. Phil. Trans. 35, 377, 1728.
122. RAY, J. Synopsis Methodica Animalium Quadrupedum et Serpentini Generis. London, 336p., 1693.
123. REDI, F. Osservazioni Intorno alle Vipere. Firenze, 91p., 1664.
124. REDI, F. Some observations of vipers. Phil. Trans. 1, 160, 1665.
125. REDI, F. Lettera di Francesco Redi sopro alcune Oppositioni fatte ale sue Observationi Intorno alle Vipere. Firenze, 1670; see also Phil. Trans. 5, 2036, 1673.
126. REDI, F. Nobilis Aretini, Experimenta Circa varias res naturales. Amsterdam, 312p., 1685.
127. REES, A. Rees' Cyclopaedia. London, 1819.
128. RICHARD, A. Observations sur la morture de la Vipère commune, Vipera berus. J. méd. chig. pharm. 8, 279, 1820.
129. ROXX, \_\_\_. [Employment of ligature and cauterization against bites by the viper.] Hist. Soc. roy. méd. 2, 212, 1782.
130. RUSSELL, P. An Account of Indian Serpents, Collected on the Coast of Coromandel; containing Descriptions and Drawings of each Species; together with Experiments and Remarks on their several Poisons. London, 1796. A Continuation in 1801.
131. RUSSELL, P. Observations on the offices found in certain poisonous snakes situated between the nostril and the eye. Phil. Trans. 94, 70, 1804.
132. SCHEUCHZER, J. J. Physique Sacrée ou Histoire Naturelle de la Bible. 8 vol., Amsterdam, 1732-7.
133. SCHLEGEL, H. Reptilia. In Siebold's Fauna Japonica. Leiden, p. 89, 1833.
134. SCHLEGEL, H. Essay on the Physiognomy of Serpents. Translated by Traill, T. S., Edinburgh, 254p., 1843.
135. SCHLEGEL, H. Fables and prejudices regarding serpents. Edinb. New phil. J. 36, 63, 1844.
136. SEVERTINUS, M. A. Vipera Phythia. Padua, 522p., 1651.
137. SLOANE, H. Conjectures on the charming or fascinating power attributed to the rattle-snake. Phil. Trans. 38, 321, 1734.
138. SMITH, P. The Indian Doctors Dispensatory. Cincinnati, 1812.
139. SMITH, T. The Naturalist's Cabinet. 6 vol., London, 1806-07.
140. SMITH, T. On the venom apparatus of sea snakes. Phil. Trans. 108, 471, 1818.
141. SMITH, T. On the structure of the poisonous fangs of serpents. Phil. Trans. 108, 471, 1818.
142. SPRENGELL, C. J. Some observations upon vipers; on occasion of the foregoing relation. Phil. Trans. 32, 296, 1722.
143. STOCKBRIDGE, W. Snakes and snake-bites at the south west. Boston med. surg. J. 29, 40, 1843.
144. STORER, D. H. Reports on the ichthyology and herpetology of Massachusetts. Comm. Zool. and Bot. Sur. Mass., Boston, p. 201, 1839.
145. TAYLOR, S. A way of killing rattle-snakes. Phil. Trans. 1:43, 76, 1665.
146. THATCHER, J. Rattlesnake-bite treatment. Boston med. Intelligencer 1, 62, 1823.
147. TOPLIS, J. On the fascinating power of snakes. Phil. Mag. 19, 379, 1804.
148. TOPSELL, E. The Historie of Serpents. Or, The Second Book of Living Creatures. London, 315p., 1608.
149. TRACY, J. G. On the Uvularia grandiflora, as a remedy for the bite of the rattlesnake. N. Y. med. phys. J. 7, 65, 1828.
150. TROWBRIDGE, J. On the treatment of poisoning by the bite of a rattlesnake. Buffalo med. J. 4, 203, 1848.
151. TYSON, E. Vipera Caudis-ona Americana, or the anatomy of a rattle-snake dissected at the repository of the Royal Society in January 1682. Phil. Trans. 12, 25, 1683.
152. VAN HELMONT, \_\_\_. Ortus Medicinae. Elzevir: Amsterdam, 1548.
153. VERNATTI, P. Of the nature of a certain stone, found in the Indies, in the head of a serpent. Phil. Trans. 1, 102, 1665.
154. W. The rattlesnake (Crotalus horridus). Lit. Rec. & J. Linnaean Ass. Pa. College, Gettysburg, 2, 62, 1846.
155. WALLACE, J. W. Rattlesnake Poison. In American Dispensatory. 7th Ed., Philadelphia, p. 663, 1827.
156. WATERTON, C. On snakes, their fangs, and their mode of procuring food. Mag. nat. Hist. 8, 663, 1835.
157. WHITLAW, C. On a reputed cure for the bite of the rattle-snake, and for hydrophobia. Tech. Reposit. 6, 254, 1824.
158. WHITMIRE, J. S. Iodine an antidote to the venom of the rattlesnake. Northw. med. J. 1, 396, 1849.
159. WILLIAMS, J. On the Cure of Persons Bitten by Snakes. In Dissertations and Miscellaneous Pieces Relating to the History and Antiquities... Of Asia, by Sir William Jones et al., 2 vol., London, 1792.

160. WILLIAMS, S. W. Rattlesnakes -  
Crotalus horridus. Boston med.  
surg. J. 37, 449, 1848.
161. WILLIAMSON, H. Of the fascination  
of serpents. Med. Reposit. 2nd  
hexade, 4, 341, 1807.
162. WINTERBOTHAM, W. Reptiles of  
America. In An Historical, Geo-  
graphical, Commercial and Philo-  
sophical View of the American  
United States. 4 vol., London, 1795.
163. WOODRUFF, S. The rattle snake  
(Crotalus horridus, L.) disarmed  
by the leaves of the white ash  
(Fraxinus americana, Mich. f.).  
Amer. J. Sci. Arts 23, 337, 1833.

## II. GENERAL BIOLOGY OF VENOMOUS SNAKES

In this section will be found most of the important books and papers dealing with the general biology of venomous snakes. Some standard texts on herpetology have been included, where such books contribute a significant amount of data on poisonous snakes. Papers which treat of venoms or of snake venom poisoning, as well as some discipline(s) within the scope of the general biology of venomous snakes, will also be found in this section when the principal contribution is related to the taxonomy, ecology, habits or defense, etc., of these animals. In those cases where the snake(s) concerned are found in more than one geographical area the reference has been placed in the general section. Material dealing with venomous snakes may also be found in the introductory remarks of papers cited in the section on General Biological Effects (V), Physiopharmacology and Toxicology (VIII), and Snakebite (XIII).

Excuse a poetick Digression.  
On the ASP and its POISON.

Welcome thou kind Deceiver  
Thou best of Thieves! who with an easy Key  
Dost open Life, and unperceiv'd by us,  
Even steal us from our selves; discharging so,  
Death's dreadful Office, better than himself.  
Touching our Limbs so gentle into slumber,  
That Death stands by, deceiv'd by its own Image,  
And thinks himself asleep.

----from Owen

200. ANGEL, F. Vie et moeurs des serpents. Payot: Paris, 319p., 1950.
201. ANON. Distribution géographique des serpents venimeux dans le monde. Savoir, Paris, 3(34), 1, 1923.
202. BACKHAUS, D. Zur Behandlung und Pflege von Schlangen. In, Die Gift-schlangen der Erde. Behringwerke-Mitteilungen: Marburg, p. 223, 1963.
203. BARBOUR, T. Reptiles and Amphibians, Their Habits and Adaptations. 2nd ed., Boston, 129p., 1934.
204. BELLAIRS, A. d'A. Reptiles. Hutchinson's Univ. Lib.: London, 195p., 1957.
205. BENCHLEY, B. J. Potential Danger. Zoonoz 17, 1, 1944.
206. BERRIDGE, W. S. All About Reptiles and Amphibians. London, 271p., 1935.
207. CALMETTE, A. Description des principales especes de serpents venimeux leur répartiton géographique. In, Les Venins, Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson: Paris, p. 23, 1907.
208. CHATIN, J. Vipère. N. Dict. med. chir. prat., Paris, 39, 512, 1886.
- ✓ 209. COCHRAN, D. M. Poisonous Reptiles of the World: A Wartime Handbook. Smithson. Inst. War Background Studies, No. 10, 1943.
210. COCHRAN, D. M. Dangerous Reptiles. Smithson. Publ. No. 3753, USGPO, 1944; see also Annu. Rep. p. 275, 1943.
- ✓ 211. DITMARS, R. L. Snakes of the World. Macmillan: New York, 207p., 1931; see also Pyramid Publ.: N. Y., 208p., 1962.
212. DOWSETT, J. M. Snake Life Simply Told. John Bale, Sons and Daniels-son: London, 1928.
213. DUMÉRIL, A. M. C., BIBRON, G. and DUMÉRIL, A. H. A. Erpétologie Générale ou Histoire Naturelle Complète des Reptiles. 9 vol., Paris, 1934-54.
214. ENGELSEN, H. [ On poisonous animals.] Nord. hyg. Tidskr. 4:263, 373, 1923.
- ✓ 215. FITZSIMONS, F. W. Snakes. London, 286p., 1932.