

THE ANAEROBIC BACTERIA

Their Activities in Nature and Disease

Part I

The Literature for 1940-1951

Volume 1

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P R E F A C E

Publication of these volumes of the literature for the years 1940 through 1969 continues our previous indexing of the world literature on the activities of the anaerobic bacteria. Unfortunately, the original publications [McCoy, E., and McClung, L.S. *The Anaerobic Bacteria and Their Activities in Nature and Disease: a subject bibliography* (in two volumes), University of California Press, 1939; and *Supplement One* (literature for 1938 and 1939)] are no longer available from the publisher. As long as a limited supply lasts, they may be obtained from the author of the present volume; make inquiries to the address below. It had been planned that supplements to the original publication would be issued at 4-5 year intervals. As indicated in the Preface to *Supplement One*, unsettled world conditions occasioned the earlier (1941) release of that volume and although the indexing for the next span of years was completed on schedule, World War II intervened and this was never published. Only recently has it been possible to complete the indexing through 1969 and thus the accumulated literature (1940-1969) forms the present publication. It is expected that the volume for 1970-1975 will follow shortly.

The literature to be indexed has expanded enormously over the years both by the appearance of many new journals and also because of the accessibility of journals not previously available for indexing. The growth with respect to the number of journals covered is readily apparent by comparison of the journal lists in the present publication with that in the volumes previously published and by the numerical count of the entries for the years covered.

A question might be raised with respect to the need for a publication of this type with the availability of computer retrieval and more elaborate cumulative indices in the secondary journals. It should be obvious to the user of this publication that the detailed subject sections in it allows a more rapid *entré* to the literature for a particular topic. Records also show that at least 30 per cent of the references included in this publication were not listed in any of the more than 50 secondary source publications which were consulted in the preparation of these volumes.

The SUBJECT INDEX OUTLINE used in the previous volumes in this series has been continued and expanded by addition of new sections to accommodate new developments or subdivision of previous sections as necessitated by the expansion of the literature. The basic plan (chronological author index and subject sections reflecting the outline divisions) has been continued. The sheer magnitude of the material for the present publication, which includes more than 35,000 citations, and present publication costs have necessitated a change with respect to the format for the entries in the subject sections. Each reference (alphabetized by senior author within a given year) has been numbered in a consecutive series; these numbers are used for the entries within the subject sections. This has been necessary to bring the total pages within publishable limits. Even with this change, the typing of camera ready copy from the original card files has taken more than a year of a full time skilled typist.

The principal libraries which have been used for this publication include the following: The Library System of Indiana University (Main Library and the Branch Libraries for Biology, Chemistry, Geology, Medical Sciences, and Physical Sciences) on the Bloomington Campus; and the Medical and Dental Libraries on the Indianapolis Campus; Iowa State University (Ames, Iowa); Crerar Library (Chicago, Illinois); National Agricultural Library (Beltsville, MD), and the National Library of Medicine (Bethesda, MD). Grateful appreciation is extended to the staff of these libraries and for the latter two, the granting of stack

privileges without which the coverage of rare journals could not have been accomplished within the time available.

In addition to personal funds, special grants have provided support for a portion of the compilation period, for a Bibliographic Assistant, and for hourly workers. These have included grants from the National Institutes of Health (PHS AI 05741, R01-3 FD-00177, and LM-02604 from the National Library of Medicine); Indiana University: Biomedical Grants from PHS RR 7031 (Indiana University Accounts: 46 246 07, 46 246 10 and 50 246 17).

It would have been impossible to assemble this publication without the competent aid of a number of assistants over the years. For example, Jean Weir, who, with her library training, helped solve many reference citation problems. Special gratitude is due Patricia A. Ross, who aided in the final checking of the card file among other duties, and who, with great skill, prepared the majority of the camera ready copy for these volumes. Finally, appreciation is expressed to my wife, who heard all too often on nights, weekends, and holidays "If needed, I'll be in the library," and who also, in the final months, aided with the filing and checking of the 250,000-300,000 cards in the original file. The author alone must take responsibility for errors in citations and for the indexing of all references. Regretably it has not been possible to locate the original publication or any secondary source listing of more than 200 references (mostly in Slavic or Oriental journals) included in the bibliographies of published articles used in the compilation of these volumes.

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INSTRUCTIONS TO USERS

The material available in the several parts of these two volumes of this publication is as follows: in Part I will be found, listed chronologically, all references for the years 1940 through 1969. Within each year the references are arranged alphabetically by senior author (and numbered in sequence) with complete cross references for each joint author. The previous policies were continued with regard to citations, abbreviations of journal titles, and reference to an indicated secondary source for those references unavailable in the original publication.

In Volume 5 (pp. 1-822) are to be found the SUBJECT INDEX SECTIONS according to the SUBJECT INDEX OUTLINE (pp. vii-xvi of Volume 1 and pp. v-xiv of Volume 5). Within each subject section the citations are arranged chronologically, and by number within each year; thus the complete reference for each entry may be traced quickly by reference to the appropriate year in Part I, Volumes 1-4.

For those unfamiliar with the previous publications in this series, attention should be directed to the following: the general SUBJECT INDEX OUTLINE (pp. vii-xvi of Volume 1 and pp. v-xiv of Volume 5) should be consulted as background for use of the SUBJECT INDEX SECTIONS (pp. 1-822 of Volume 5). An alphabetic INDEX (pp. 2821-2847 of Part I and pp. 823-849 of Volume 5) to the subject sections may be used by those unfamiliar with the scope of the SUBJECT INDEX OUTLINE.

The complete name of the journals cited by abbreviation in Part I may be found in the KEY TO ABBREVIATIONS USED IN THE JOURNAL CITATIONS (pp. xvii-cxlv of Volume 1). The WORLD LIST OF SCIENTIFIC PERIODICALS should be consulted for additional information for a particular title.

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

Section A: Secondary (abstract and/or title) publications

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Abstr. Bioanalytic Technol.	Abstracts of Bioanalytic Technology <u>8</u> (1960) - <u>12</u> (1964), <u>13</u> (1965) inc.
Abstr. Bulgarian Sci. Lit. (Bulgar. Akad. Naukite Sofia, Mikrobiol. Inst., Izvestica)	Abstracts of Bulgarian Scientific Literature (Bulgarska Akademiia na Naukite Sofia, Mikrobiologischeski Institut, Izvestica) <u>20</u> (1969)
Abstr. Hyg.	Abstracts on Hygiene <u>43</u> (1968) - <u>44</u> (1969) With vol. 43, title changed from Bul. Hyg.
Abstr. Japan. Med.	Abstracts of Japanese Medicine <u>1</u> (1960-61) - <u>2</u> (1962) In 1963, included in relevant sections of Excpt. Med.
Abstr. Soviet Med.	Abstracts of Soviet Medicine <u>1</u> (1957) - <u>5</u> (1961) With vol. 6, became a part of Excpt. Med.
Abstr. Soviet Med., Part B, Clin. Med.	Abstracts of Soviet Medicine. Part B, Clinical Medicine <u>1</u> (1957) - <u>5</u> (1961)
Abstr. World Surg., Obstet. and Gynecol.	Abstracts of World Surgery, Obstetrics and Gynecology <u>1</u> (1947) - <u>10</u> (1951)
Acta Vet. Japon.	Acta Veterinaria Japonica <u>1</u> (1956) - <u>5</u> (1960)
Allergy Abstr.	Allergy Abstracts <u>24</u> (1959) - <u>29</u> (1964)
Amer. Can Co.: Library Abstr.	American Can Company; Library Abstracts <u>10</u> (1944) - <u>30</u> (1964)
Bibliog. Agr.	U.S. Agriculture Department.. Library Bibliography of Agriculture <u>1</u> (1942) - <u>33</u> (1969)
Biol. Abstr.	Biological Abstracts <u>14</u> (1940) - <u>50</u> (1969)
Bul. Analyt.	Bulletin Analytique. Centre National de le Recherche Scientifique <u>1</u> (1940) - <u>16</u> (1955) With vol. 17, title changed to Bul. Sig.
Bul. Hyg.	Bulletin of Hygiene <u>15</u> (1940) - <u>42</u> (1967) With vol. 43, title changed to Abstr. Hyg.
Bul. Inst. Pasteur	Bulletin de l'Institut Pasteur. Paris. <u>38</u> (1940), <u>39</u> (1941) inc., <u>40</u> (1942) - <u>67</u> (1969)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Bul. Sig.	Bulletin Signalétique. France. Centre National. de la Recherche Scientifique <u>17</u> (1956) - <u>21</u> (1960) With vol. 22, splits into sections With vol. 17, title changed from Bul. Analyt.
Bul. Sig., Sect. 12	Bulletin Signalétique: 12 Biophysique. Biochimie <u>22</u> (1961) - <u>28</u> (1967)
Bul. Sig., Sect. 14, Microbiol. Immunol. Genet.	Bulletin Signalétique: 14 Microbiologie, Immunologie, Génétique <u>22</u> (1961) - <u>28</u> (1967)
Chem. Abstr.	Chemical Abstracts <u>34</u> (1940) - <u>71</u> (1969)
Commercial Fish. Abstr.	Commercial Fisheries Abstracts. [Fish and Wildlife Service. Washington] <u>18</u> (1965) - <u>19</u> (1966)
Cum. Index Med.	Cumulative Index Medicus <u>1</u> (1960) - <u>10</u> (1969)
Current List Med. Lit.	Current List of Medical Literature <u>10</u> (1946) - <u>36</u> (1959) Ceased publication with vol. 36 and began publishing under title Cum. Index Med.
Dent. Abstr.	Dental Abstracts <u>1</u> (1956) - <u>14</u> (1969)
Diss. Abstr. Int.	Dissertation Abstracts International <u>30</u> (1969-70)
Dissertation Abstr.	Dissertation Abstracts. Abstracts of Dissertations and Monographs in Microform. University Microfilms, Inc. <u>12</u> (1952) - <u>29</u> (1968-1969) With vol. 30, title changed to Diss. Abstr. Int. With vol. <u>12</u> title changed from Microfilm Abstr.
Doctoral Dissertations, Amer. Univ.	Doctoral Dissertations accepted by American Universities <u>7</u> (1939-40) - <u>22</u> (1954-55)
Excpt. Med., Sect. II	Excerpta Medica. Section II. Physiology, Biochemistry and Pharmacology <u>1</u> (1948) - <u>22</u> (1969)
Excpt. Med., Sect. IV	Excerpta Medica. Section IV. Medical Microbiology and Hygiene <u>1</u> (1948) - <u>21</u> (1968)
Excpt. Med., Sect. XIII	Excerpta Medica. Section XIII. Dermatology and Venereology
Excpt. Med., Sect. XVII	Excerpta Medica. Section XVII. Public Health, Social Medicine and Hygiene <u>1</u> (1955) - <u>13</u> (1967)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Expt. Sta. Rec.	Experiment Station Record <u>82</u> (1940) - <u>95</u> (1946)
French Doct. Theses	French Doctoral Theses 1951 - 1953
Index Dent. Lit.	Index to Dental Literature 1940 - 1969
Index Lit. Food Invest.	Index to the Literature of Food Investigation. Department of Scientific and Industrial Research. Gt. Britain <u>12</u> (1940) - <u>17</u> (1945), <u>20</u> (1948) With vol. 21, title changed to Food Science Abstracts
Index to Theses, Univ. Great Britain and Ireland	Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland <u>1</u> (1950-51) - <u>19</u> (1968-69)
Indian Sci. Abstr.	Indian Science Abstracts <u>1</u> (1965), <u>2</u> (1966) inc., <u>3</u> (1967)
Indust. Microbiol. Abstr.	Industrial Microbiology Abstracts <u>1</u> (1965) Following vol. 1, title changed to Microbiol. Abstr.
Internatl. Abstr. Surg.	International Abstract of Surgery <u>70</u> (1940) - <u>117</u> (1963) With vol. 118, bound with Surg., Gynecol., and Obstet.
Japan Sci. Rev., Med. Sci.	Japan Science Review. Medical Sciences, Abstracts. <u>1</u> (1954) - <u>13</u> (1965-66)
Japan. Period. Index	Japanese Periodicals Index, Natural Sciences. Part 1: Science and Technology; Part 2: Medical Science <u>1</u> (1960) inc., <u>2</u> (1961) - <u>4</u> (1963), <u>5</u> (1964) inc.
Jour. Sci. Food Agr.; Abstr.	Journal of the Science of Food and Agriculture; Abstracts 1954 - 1969
Microbiol. Abstr., Sect. A	Microbiology Abstracts (Section A: Industrial Microbiology) <u>1</u> (1965) - <u>5</u> (1970)
Microbiol. Abstr., Sect. B	Microbiology Abstracts (Section B: General Microbiology and Bacteriology) <u>1</u> (1965) - <u>5</u> (1970)
Microfilm Abstr.	Microfilm Abstracts <u>4</u> (1942-44) - <u>11</u> (1951) With vol. 12, title changed to Dissertation Abstracts
Nuclear Sci. Abstr.	Nuclear Science Abstracts. United States Atomic Energy Commission, Division of Technical Information <u>1</u> (1948) - <u>21</u> (1967), <u>22</u> (1968) inc.

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Oral Research Abstr.	Oral Research Abstracts <u>1</u> (1966) - <u>4</u> (1969)
Quart. Cum. Index Med.	Quarterly Cumulative Index Medicus <u>27</u> (1940) - <u>59</u> (1956)
Quart. Rev. Allergy Appl. Immunol.	Quarterly Review of Allergy and Applied Immunology <u>1</u> (1947) - <u>10</u> (1956) With vol. 11, title changed to Rev. Allergy Appl. Immunol.
Pub. Health Engin. Abstr.	Public Health Engineering Abstracts <u>21</u> (1941) - <u>47</u> (1967)
Rev. Allergy Appl. Immunol.	Review of Allergy and Applied Immunology <u>11</u> (1957) - <u>23</u> (1969) With vol. 11, title changed from Quart. Rev. Allergy Appl. Immunol.
Synthesis Microbiol.	Synthesis Microbiologica <u>2</u> (1966)
U.S. Govt. Research and Dev. Rpts.	United States Government Research and Development Reports <u>41</u> (1966) - <u>68</u> (1968)
U.S. Govt. Research Rpts.	United States Government Research Reports <u>38</u> (1963) - <u>40</u> (1965) With vol. 41, title changed to U.S. Govt. Research and Dev. Rpts.
Vet. Bul.	Veterinary Bulletin <u>10</u> (1940) - <u>39</u> (1969)
Water Pollution Abstr.	Water Pollution Abstracts. Great Britain. Department of Scientific and Industrial Research. Water Pollution Board <u>27</u> (1954) - <u>42</u> (1969)
World Fisheries Abstr.	World Fisheries Abstracts. Food and Agriculture Organization of the United Nations <u>11</u> (1960) - <u>20</u> (1969)
Zentbl. Bakt. (etc.), 1 Abt. Ref.	Zentralblatt für Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene. Erste Abteilung. Referate <u>139</u> (1941) - <u>218</u> (1969-70)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

Section B: Primary research publications and review journals

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Abdom. Surg.	Abdominal Surgery. Official Journal of the Abdominal Surgery <u>8</u> (1966) - <u>11</u> (1969) With vol. 8, title changed from Jour. Abdom. Surg.
Abhandl. Akad. Wissenschaft.	Akademie der Wissenschaften, Berlin Abhandlungen 1950 - 1952, 1954, 1959, 1961, 1963 - 1967
Abstr. Proc. Soc. Agr. Bact.	Society of Agricultural Bacteriologists. Abstracts of Proceedings 1940 - 1944 In 1945, title changed to Soc. Appl. Bact., Proc.
Acad. Argent. Cirug., Bol. y Trab.	Academia Argentina de Cirugia, Boletines y Trabajos <u>24</u> (1940) - <u>25</u> (1941), <u>27</u> (1943) - <u>29</u> (1945), <u>31</u> (1947)
Accad. Fisiocrit Siena, Atti, series 13	Atti dell'Accademia dei Fisiocritici di Siena, series 13. Siena 1951
Acta Agr. Scan.	Acta Agriculturae Scandinavica <u>1</u> (1951) - <u>3</u> (1953)
Acta Agr. Suecana	Acta Agriculturae Suecana <u>1</u> (1945) - <u>3</u> (1948-49) Succeeded by Acta Agr. Scan.
Acta Allergol.	Acta Allergologica <u>1</u> (1948) - <u>24</u> (1969)
Acta Allergol. Sup.	Acta Allergologica Supplementum <u>2</u> (1952) - <u>9</u> (1968)
Acta Anaesthesiol.	Acta Anaesthesiologica <u>19</u> (1968) - <u>20</u> (1969)
Acta Anaesthesiol., Sup.	Acta Anaesthesiologica. Supplemento <u>16</u> (1965) inc., <u>19</u> (1968) inc.
Acta Anaesthesiol. Scan.	Acta Anaesthesiologica Scandinavia <u>1</u> (1957) - <u>13</u> (1969)
Acta Anaesthesiol. Scan., Sup.	Acta Anaesthesiologica Scandinavia. Supplement <u>1</u> (1957-59) - <u>36</u> (1969)
Acta Anat.	Acta Anatomica <u>43</u> (1960) - <u>44</u> (1961), <u>73</u> (1969)
Acta Anesthesiol. Belgica	Acta Anaesthesiologica Belgica <u>7</u> (1956) - <u>20</u> (1969)
Acta Biochim. et Biophys. (Acad. Sci. Hungaricae)	Acta Biochimica et Biophysica. Academiae Scientiarum Hungaricae <u>1</u> (1966) - <u>4</u> (1969)
Acta Biochim. Polon.	Acta Biochimica Polonica <u>1</u> (1954) - <u>16</u> (1969)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Acta Biol. Belgica	Acta Biologica Belgica <u>1</u> (1941), <u>2</u> (1942) inc.
Acta Biol. et Med. Germ.	Acta Biologica et Medica Germanica <u>4</u> (1960) - <u>23</u> (1969)
Acta Brevia Neerland.	Acta Brevia Neerlandica de Physiologia, Pharmacologia, Microbiologia, e.a. <u>10</u> (1940) - <u>17</u> (1950) Ceased with vol. 17
Acta Chirurg. Belgica	Acta Chirurgica Belgica <u>54</u> (1955) - <u>68</u> (1969)
Acta Chem. Scan.	Acta Chemica Scandinavica <u>1</u> (1947) - <u>23</u> (1969)
Acta Chirurg. Ital.	Acta Chirurgica Italica <u>1</u> (1946) - <u>25</u> (1969)
Acta Chirurg. Scan.	Acta Chirurgica Scandinavica <u>83</u> (1939-40) - <u>135</u> (1969)
Acta Chirurg. Scan., Sup.	Acta Chirurgica Scandinavica. Supplementa <u>61</u> (1940) - <u>404</u> (1968-69)
Acta Clin. Belg..	Acta Clinica Belgica <u>1</u> (1946) - <u>24</u> (1969)
Acta Cytol.	Acta Cytologica <u>12</u> (1968) - <u>13</u> (1969)
Acta Dermat.-Venereol.	Acta Dermato-Venereologica <u>21</u> (1940) - <u>49</u> (1969)
Acta Endocrinol.	Acta Endocrinologica <u>12</u> (1953) - <u>62</u> (1969)
Acta Endocrinol. Sup.	Acta Endocrinologica. Supplements <u>11</u> (1947) - <u>12</u> , <u>36</u> - <u>39</u> , <u>48</u> - <u>51</u> , <u>60</u> - <u>62</u> , <u>65</u> - <u>71</u> , <u>83</u> - <u>140</u> (1969)
Acta Gastro-Enterol. Belg.	Acta Gastro-Enterologica Belgica <u>16</u> (1953), <u>30</u> (1967) - <u>32</u> (1969)
Acta Genet. Med. Gemellol.	Acta Geneticae Medicae et Gemellologiae <u>1</u> (1952) - <u>18</u> (1969)
Acta Ginecol. (Madrid)	Acta Ginecologica (Madrid) <u>7</u> (1956) - <u>20</u> (1969)
Acta Haematol.	Acta Haematologica <u>1</u> (1948) - <u>42</u> (1969)
Acta Med. Acad. Sci. (Hungaricae)	Acta Medica Academiae Scientiarum Hungaricae <u>1</u> (1950) - <u>26</u> (1969)
Acta Med. Ital. Mal. Infett.	Acta Medica Italica di Malattie Infettive e Parassitarie <u>1</u> (1946) - <u>15</u> (1960) With vol. 16, title changed to Acta Med. Ital. Med. Trop. e Subtrop. e Gastroenterol.
Acta Med. Ital. Med. Trop. e Subtrop. e Gastroenterol.	Acta Medica Italica di Medicina Tropicale e Subtropicale e di Gastroenterologia <u>16</u> (1961) - <u>19</u> (1964)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Acta Med. Iugoslavia	Acta Medica Iugoslavia <u>1</u> (1964) - <u>20</u> (1967) inc.
Acta Med. Legalis et Social.	Acta Medicinae Legalis et Socialis <u>17</u> (1964) - <u>20</u> (1967) inc.
Acta Med. Polonica	Acta Medica Polonica <u>1</u> (1960) - <u>10</u> (1969)
Acta Med. (Rio de Janeiro)	Acta Medica, Rio de Janeiro <u>5</u> (1940) - <u>11</u> (1943)
Acta Med. Scan.	Acta Medica Scandinavica <u>102</u> (1940) - <u>186</u> (1969)
Acta Med. Scan., Sup.	Acta Medica Scandinavica. Supplementa <u>107</u> (1940) - <u>505</u> (1969)
Acta Med. Univ. Kagoshima	Acta Medica University Kagoshima <u>6</u> (1966), <u>8</u> (1966) - <u>9</u> (1967)
Acta Med. Vet. (Napoli)	Acta Medica Veterinaria <u>2</u> (1956) - <u>15</u> (1969)
Acta Med. Vietnam.	Acta Medica Vietnamica <u>1</u> (1957) - <u>13</u> (1969)
Acta Microbiol., Acad. Sci. Hung.	Acta Microbiologica. Academiae Scientiarum Hungaricae <u>1</u> (1954) - <u>16</u> (1969)
Acta Microbiol. Polonica	Acta Microbiologica Polonica <u>1</u> (1952) inc. - <u>18</u> (1969)
Acta Morphol. (Hungaricae)	Acta Morphologica Academiae Scientiarum Hungaricae <u>1</u> (1951) - <u>17</u> (1969)
Acta Neurochirurg.	Acta Neurochirurgica <u>20</u> (1969)
Acta Neurol.	Acta Neurologica <u>1</u> (1946) - <u>24</u> (1969)
Acta Neurol. et Psychiat. Belg.	Acta Neurologica et Psychiatrica Belgica <u>55</u> (1955), <u>58</u> (1958), <u>65</u> (1965) - <u>69</u> (1969)
Acta Neuropath.	Acta Neuropathologica <u>1</u> (1961-62) - <u>14</u> (1969-70)
Acta Neuropath. Sup.	Acta Neuropathologica. Supplement <u>1</u> (1961-62) - <u>18</u> (1969)
Acta Odont. Scan.	Acta Odontologica Scandinavica <u>2</u> (1940) - <u>27</u> (1969)
Acta Orthop. Scan.	Acta Orthopaedica Scandinavica <u>11</u> (1940) - <u>40</u> (1969)
Acta Otolaryngol.	Acta Otolaryngologica <u>28</u> (1940) - <u>68</u> (1969)
Acta Paediat. Hung.	Acta Paediatrica Academiae Scientiarum Hungaricae <u>1</u> (1960) - <u>9</u> (1968)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Acta Paediat. Japon. (overseas ed.)	Acta Paediatrica Japonica. Tokyo <u>6</u> (1964) - <u>11</u> (1969)
Acta Paediatrica	Acta Paediatrica. <u>27</u> (1940) - <u>58</u> (1969)
Acta Paediatrica, Sup.	Acta Paediatrica, Supplementum <u>73</u> (1950) - <u>199</u> (1969)
Acta Paediatrica Belgica	Acta Paediatrica Belgica <u>1</u> (1946-47) - <u>3</u> (1949), <u>19</u> (1965) - <u>23</u> (1969)
Acta Path. Japon.	Acta Pathologica Japonica <u>11</u> (1961) - <u>13</u> (1963), <u>17</u> (1967) - <u>19</u> (1969)
Acta Path. Microbiol. Scan.	Acta Pathologica et Microbiologica Scandinavica <u>17</u> (1940) - <u>77</u> (1969)
Acta Path. Microbiol. Scan., Sup.	Acta Pathologica et Microbiologica Scandinavica. Supplementa <u>41</u> (1940) - <u>206</u> (1969)
Acta Paediat. Latina	Acta Paediatrica Latina <u>4</u> (1951), <u>9</u> (1956) - <u>22</u> (1969)
Acta Pediat. Española	Acta Pediatrca Española <u>9</u> (1951) - <u>27</u> (1969)
Acta Pharm. Hung.	Acta Pharmaceutica Hungarica <u>36</u> (1966) - <u>39</u> (1969)
Acta Pharmacol. et Toxicol.	Acta Pharmacologica et Toxicologica <u>1</u> (1948) - <u>27</u> (1969)
Acta Physiol., Acad. Sci. Hung.	Acta Physiologica Academiae Scientarum Hungaricae <u>2</u> (1951) - <u>36</u> (1969)
Acta Physiol., Acad. Sci. Hung., Sup.	Acta Physiologica Academiae Scientarum Hungaricae, Supplementum <u>6</u> (1954), <u>11</u> - <u>12</u> , <u>14</u> , <u>16</u> , <u>18</u> , <u>20</u> , <u>22</u> , <u>24</u> , <u>26</u> (1965)
Acta Physiol. Latinoamer.	Acta Physiologica Latinoamericana <u>1</u> (1950) - <u>19</u> (1969)
Acta Physiol. Pharmacol. Neerland.	Acta Physiologica et Pharmacologica Neerlandica <u>1</u> (1950) - <u>15</u> (1969)
Acta Physiol. Scan.	Acta Physiologica Scandinavica <u>22</u> (1951), <u>51</u> (1961) - <u>77</u> (1969)
Acta Phytochim.	Acta Phytochimica <u>11</u> (1939-40)
Acta Radiologica	Acta Radiologica <u>21</u> (1940) - <u>58</u> (1962)
Acta Radiol. Diagnosis	Acta Radiologica Diagnosis <u>1</u> (1963) - <u>8</u> (1969)
Acta Rheumatol. Scan.	Acta Rheumatologica Scandinavica <u>1</u> (1955) - <u>15</u> (1969)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Acta Stomatol. Belg.	Acta Stomatologica Belgica <u>58</u> (1961) - <u>66</u> (1969)
Acta Univ. Carol. Med.	Acta Universitatis Carolinae Medica. Prague <u>13</u> (1967), <u>15</u> (1969)
Acta Vet., Acad. Sci. Hung.	Acta Veterinaria. Academie Scientiarum Hungaricae <u>1</u> (1951) - <u>19</u> (1969)
Acta Vet. (Beograd)	Acta Veterinaria (Beograd) <u>1</u> (1951) - <u>19</u> (1969)
Acta Vet. Japon.	Acta Veterinaria Japonica. Tokyo <u>1</u> (1956) - <u>8</u> (1963)
Acta Vet. Scan.	Acta Veterinaria Scandinavica <u>1</u> (1959-60) - <u>10</u> (1969)
Acta Vet. Scan., Sup.	Acta Veterinaria Scandinavica. Supplementum <u>2</u> (1961) inc., <u>6</u> (1965) inc., <u>19</u> (1967) - <u>28</u> (1969)
Acta Virol.	Acta Virologica <u>1</u> (1957) - <u>13</u> (1969)
Acta Vitaminol. ed Enzymol.	Acta Vitaminologica ed Enzymologica <u>21</u> (1967) - <u>22</u> (1968)
Actas Dermo-Sifil.	Actas Dermo-Sifilograficas <u>56</u> (1965)
Actual. Méd. Peru.	Actualidad Médica Peruana <u>11</u> (1945), <u>22</u> (1956) - <u>24</u> (1959)
Actual. Méd. (Granada)	Actualidad Médica. Granada <u>33</u> (1947), <u>44</u> (1968) - <u>45</u> (1969)
Adv. Appl. Microbiol.	Advances in Applied Microbiology <u>1</u> (1959) - <u>11</u> (1969)
Adv. Appl. Microbiol., Sup.	Advances in Applied Microbiology. Supplements <u>1</u> (1968)
Adv. Chem. Ser.	Advances in Chemistry Series. Washington <u>21</u> (1959)
Adv. Enzymol.	Advances in Enzymology <u>1</u> (1941) - <u>32</u> (1969)
Adv. Expt. Med. and Biol.	Advances in Experimental Medicine and Biology <u>1</u> (1967) - <u>5</u> (1969)
Adv. Fluorine Research and Dent. Caries Prevention	Advances in Fluorine Research and Dental Caries Prevention <u>3</u> (1965)
Adv. Food Research	Advances in Food Research <u>1</u> (1948) - <u>17</u> (1969)
Adv. Lipid Research	Advances in Lipid Research <u>1</u> (1963) - <u>7</u> (1969)
Adv. Microbial Physiol.	Advances in Microbial Physiology <u>1</u> (1967) - <u>3</u> (1969)
Adv. Microbiol. Sea	Advances in Microbiology of the Sea <u>1</u> (1968)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Adv. Oral Biol.	Advances in Oral Biology <u>1</u> (1964) - <u>3</u> (1968)
Adv. Organic Chem.	Advances in Organic Chemistry <u>1</u> (1960) - <u>7</u> (1969)
Adv. Pediat.	Advances in Pediatrics <u>1</u> (1942), <u>14</u> (1966) - <u>16</u> (1969)
Adv. Surg.	Advances in Surgery <u>1</u> (1965) - <u>3</u> (1969)
Adv. Vet. Sci.	Advances in Veterinary Science <u>1</u> (1953) - <u>13</u> (1969)
Adv. Water Pollution Research	Advances in Water Pollution Research 1962, 1964, 1966 (publ. 1967)
Aerospace Med.	Aerospace Medicine <u>30</u> (1959) - <u>40</u> (1969) With vol. 30, title changed from Jour. Aviation Med.
Afrique Francaise Chirurg.	Afrique Française Chirurgicale <u>4</u> (1946) - <u>5</u> (1947), <u>12</u> (1954), <u>14</u> (1956) - <u>18</u> (1960)
Afrique Méd.	Afrique Médicale <u>3</u> (1964) - <u>8</u> (1969)
Aggiorn. Mal. Infez.	Aggiornamenti sulle Malattie da Infezione <u>2</u> (1956) - <u>15</u> (1969)
Agr. Gaz. New South Wales	Agricultural Gazette of New South Wales <u>53</u> (1942), <u>79</u> (1968) - <u>80</u> (1969)
Agr. Prog.	Agricultural Progress <u>31</u> (1956)
Agricoltura	Agricoltura. 2 ^e serie <u>1</u> (1953) - <u>5</u> (1957)
Agriculture (London)	Agriculture, London <u>65</u> (1958)
Agron. Jour.	Agronomy Journal <u>41</u> (1949) - <u>61</u> (1969) With vol. 41, title changed from Jour. Amer. Soc. Agron.
AIBS	AIBS (American Institute of Biological Sciences) <u>1</u> (1951) - <u>13</u> (1963) With vol. 14, title changed to BioScience
Air and Water Pollution	Air and Water Pollution; an International Journal <u>5</u> (1964) - <u>10</u> (1966) With vol. 5, title changed from Internatl. Jour. Air Pollution
Akad. Nauk SSSR, Izv., Ser. Biol.	Akademii Nauk SSSR, Izvestiya. Leningrad Seriya Biologicheskaya <u>5</u> (1940) - <u>34</u> (1969)
Ala. Dent. Assoc., Bul.	Alabama Dental Association, Bulletin <u>30</u> (1946) - <u>31</u> (1947)

KEY TO ABBREVIATIONS USED IN JOURNAL CITATIONS

ABBREVIATIONS	TITLE OF JOURNAL AND VOLUMES CONSULTED
Alabama Jour. Med. Sci.	Alabama Journal of Medical Science <u>5</u> (1968)
Alaska Med.	Alaska Medicine. Anchorage <u>1</u> (1959) - <u>11</u> (1969)
Algérie Méd.	Algérie Médicale <u>51</u> (1948) - <u>53</u> (1949), <u>56</u> (1952) - <u>57</u> (1953), <u>60</u> (1956) - <u>66</u> (1962)
Allergie u. Asthma	Allergie und Asthma <u>13</u> (1967)
Amer. Assoc. Cancer Research, Proc.	American Association for Cancer Research, Proceedings <u>1</u> (1953) - <u>10</u> (1969)
Amer. Assoc. Petrol. Geol., Bul.	American Association of Petroleum Geologists, <u>24</u> (1940) - <u>53</u> (1969)
Amer. Clin. and Climatol. Assoc., Trans.	American Clinical and Climatological Association, Transactions <u>62</u> (1950) - <u>81</u> (1969)
Amer. Col. Surg., Bul.	American College of Surgeons, Bulletin <u>40</u> (1940) - <u>54</u> (1969)
Amer. Fisheries Soc., Trans.	American Fisheries Society, Transactions <u>70</u> (1940) - <u>98</u> (1969)
Amer. Fur Breeder	American Fur Breeder <u>29</u> (1956), <u>34</u> (1961) - <u>37</u> (1964), <u>39</u> (1966)
Amer. Gas Jour.	American Gas Journal <u>152</u> (1940) - <u>188</u> (1961)
Amer. Heart Jour.	American Heart Journal <u>20</u> (1940) - <u>78</u> (1969)
Amer. Inst. Oral. Biol., Proc.	American Institute for Oral Biology, Proceedings 1964(21st) - 1969(26th)
Amer. Jour. Bot.	American Journal of Botany <u>27</u> (1940) - <u>56</u> (1969)
Amer. Jour. Cardiol.	American Journal of Cardiology <u>1</u> (1958) - <u>24</u> (1969)
Amer. Jour. Clin. Nutrition	American Journal of Clinical Nutrition <u>3</u> (1955) - <u>22</u> (1969) With vol. 3, title changed from Jour. Clin. Nutrition
Amer. Jour. Clin. Path.	American Journal of Clinical Pathology <u>10</u> (1940) - <u>52</u> (1969)
Amer. Jour. Digest. Diseases	American Journal of Digestive Diseases <u>7</u> (1940) - <u>22</u> (1955)
Amer. Jour. Digest. Diseases (new ser.)	American Journal of Digestive Diseases (new series) <u>1</u> (1956) - <u>14</u> (1969)
Amer. Jour. Diseases Children	American Journal of Diseases of Children <u>59</u> (1940) - <u>118</u> (1969)