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# NOAA TECHNICAL MEMORANDUM NMFS-SEFC-166

## A SELECTED BIBLIOGRAPHY ON FISH OILS

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and
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U.S. Department of Commerce
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U.S. Department of Commerce
Malcolm Baldrige, Secretary
National Oceanic and Atmospheric Administration
Anthony J. Calio, Administrator
National Marine Fisheries Service
William G. Gordon, Assistant Administrator for Fisheries

## ABSTRACT

Selected references are listed for 5700 scientific/technical articles published from 1878 to date on the subject of fish oils. A wide variety of topics are covered by these papers which include the history, production, analysis, chemistry, use, therapeutics, and toxicology of fish oils. An author index to the articles and an appendix describing the Online Reprint Accession Library System (ORALS) used to produce the bibliography are included.

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# INTRODUCTION

This selected bibliography on fish oils was compiled by staff of the Charleston Laboratory, Southeast Fisheries Center, National Marine Fisheries Service (NMFS). It contains references to 5700 papers published from 1878 to date on topics that include the history, production, analysis, chemistry, uses, toxicology, and therapeutic value of fish oils. An author index and an appendix describing the computer software utilized are included.

The fish oils bibliography is one result of a joint NMFS and National Fish Meal and Oil Association (NFMOA) initiative to evaluate the safety and wholesomeness of refined and partially hydrogenated menhaden oils. In June 1977, representatives from NFMOA requested assistance and obtained a commitment from NMFS officials to develop a joint plan of action to produce an information data base which could lead to the submission of a Generally Recognized as Safe (GRAS) affirmative petition to the U.S. Food and Drug Administration (FDA) for refined and partially hydrogenated menhaden oils. As part of that initiative we began collecting copies of articles related to fish oils starting with a bibliography of 970 references contained in a scientific literature review prepared by Tracor-Jitko Inc.[1] for FDA. The Tracor-Jitko review summarized the scientific literature from 1920 through 1973 related to the safety of fish oils as food ingredients. The special collection of articles on fish oils grew rapidly with review of the original 970 articles. Publications lists of NMFS (and its predecessor, the Bureau of Commercial Fisheries, BCF), translations lists of the Canadian Fisheries and Marine Service (and its predecessor, the Fisheries Research Board of Canada), and selected literature searches available through online information retrieval systems also provided references. It became apparent that the size of the fish oils file and its continuing growth would not permit full use of the information contained therein since manual searches were becoming unmanagable. A computerized bibliographic data base for accessing the acquired references was needed.

Several options were evaluated for a computer software package which would provide a searchable online data base management system for the fish oils file. We identified our data base needs as: (1) a sequential file structure which could be accessed randomly; (2) direct free text access to any word in any field; (3) a capability to update, i.e., add, change and/or delete stored information; (4) a capability to produce printed products; (5) a capability to specify a variety of output formats for keyword/subject indexes; (6) a capability to sort alphabetically, by author and date; and (7) a capability to produce author/coauthor indexes.

Once the requirements for an online machine retrievable bibliographic data base had been defined, we searched for a compatible software package. Finding none that suited our needs, a staff member of the Laboratory developed a computerized catalog software package tailored to our defined requirements for the

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1 Mention of commercial firms does not imply endorsement by the National Marine Fisheries Service, NOAA.

fish oils file called the Online Reprint Accession Library System or ORALS (See Appendix). The software package could also provide special subject bibliographies for any NMFS reprint collection. The fish oils data base (via ORALS) is maintained on a mainframe Burroughs computer at the National Oceanic and Atmospheric Administration's (NOAA) Sand Point facility in Seattle, Washington.

The main purpose of this special collection was to support the menhaden industry's petition development effort. The fish oils reprint file contains copies, not just citations, of articles, some of which are not cited in other online bibliographic data bases. We anticipate publishing supplements to the bibliography as the file expands, with the possibility of an additional publication listing keywords. Such a publication could provide a mechanism for individuals without NMFS/NOAA computer access to search this bibliography for articles dealing with specific topics.

This bibliography represents articles obtained from books, reports, symposia, and more than 700 serial titles. In order to provide some degree of consistency, all journal titles were entered as indexed in Serial Sources for the Biosis Data Base (BioSciences Information Services, Philadelphia, PA). If a journal title was unavailable in the BIOSIS listing we referred to New Serial Titles (U.S. Library of Congress). Articles showing no date, or where the date could not be verified or determined, were assigned '0000' in the date field.

The author index lists all reprint numbers associated with each author. Reprint numbers preceded by an "*" (asterisk) indicates senior author status; or a "^" symbol indicates the author as an editor. Reprint numbers with no preceeding symbol represents a junior author.

We are grateful to many individuals for providing personal bibliographies and references to this initiative. Because so many people participated in this effort, we will not attempt to acknowledge each individual by name. We would like to acknowledge, however, those organizations which provided major contributions. They are: the International Association of Fish Meal Manufacturers; the Canadian Institute of Fisheries Technology of the Technical University of Nova Scotia; Marine Chemurgics-Research and Development; Seacoasts Products, Inc.; Standard Products Company, Inc.; Wallace Menhaden Products, Inc.; Zapata Haynie Corporation; and staff members of the NMFS Charleston Laboratory.

Lastly we recognize the fine contribution of Carl Kinerd of the Data Management Office of the Charleston Laboratory. Mr. Kinerd worked closely with us to develop ORALS. His knowledge, interest, and untiring cooperation have been invaluable in producing this computer generated bibliography.

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ANDERSON, R., *03516,*03517
ANDERSON, W. E., 02383
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ZUCKERMAN, L., *01151
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ZUNINI, E., *01152
ZURCHER, K., 00392, 01177,*02710
ZURIER, R. B., *04953, 05060
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# APPENDIX

## The Online Reprint Accession Library System (ORALS)

# THE ONLINE REPRINT ACCESSION LIBRARY SYSTEM (ORALS)

The Online Reprint Accession Library System (ORALS) is a computerized catalog software package which can provide machine retrievable data bases for reprint collections. Although this software package was designed for the menhaden oil petition development project at our Laboratory, it was written so that NMFS researchers and library personnel could utilize it for large or small reprint collections.

The program is prompt/menu driven and runs interactively via NOAA's Burroughs computer in Seattle, Washington. The computer may be accessed from any NMFS's laboratory in the Southeast region, Washington, D.C., and selected NMFS's laboratories in other regions via dedicated communications lines. There is local dial-up access to these lines in Miami, Charleston, and Seattle. There are plans to provide access to the computer via a commercial telecommunications network (e.g. Telenet, Uninet, Tymenet).

Storage and/or access to ORALS is via a reprint accession number. There are six master files used by ORALS, four of which are of variable length: the author, title, reference, and keywords files. Two files contain static information: the index fields file containing date, language code, library code, and petition code(s); and the pointer file containing the last reprint number accessed, the number of records in each file, and the maximum number of characters in each field. Since ORALS is a random access system, the master files can be built randomly.

The entire data base is accessed by reprint number with the exception of the one record pointer file. The author field is alpha-numeric with a maximum of 200 characters. The title field is alpha-numeric with a maximum of 400 characters. The reference and keyword fields are alpha-numeric with a maximum of 300 characters each. The date is a four digit year (0000 when date is not cited). The language code is a three character abbreviation for the language in which the article is written. The library code is a one character code which can be used for flagging, grouping, and/or delimiting reprints for various purposes. The petition code is a two character code, the first character numeric (0-9) and the second character alphabetic (blank and A-Z). Although all fields in the data base are truly optional, a valid entry should contain author, title, reference, and date.

To print a bibliography, a series of parameters must be specified via user responses to prompts on the user's terminal. The user will be prompted to select the sort order of the bibliography; up to four levels of the possible six fields may be selected. These sort levels are determined by the order entered, highest to lowest, from the following fields: author, title, reprint accession number, date, junior author, and no sort (i.e., maintain order of selection).

There are seven retrieval selections that will produce a bibliographical report. These are: all reprints with a petition code; selected petition coded reprints; reprint accession number; library code; author search (without date); author search (with date); and free text search.

A free text search retrieval will produce selected reprints that contain the string(s) entered from the title, reference, and keyword files or any combination thereof. Up to ten search strings can be used. Each string may have up to 40 characters. The logical operators for combining search strings are "and" and "or". The logical operators must be preceded and followed by the delimiter "/" (slash) which allows the words "and" and "or" to be included in a search string if needed. The "and" logical operator takes precedence over the "or" logical operator. For clarification, the user may use multiple sets of single level parentheses. Due to system constraints, the total number of characters, including all strings, delimiters, and logical operators cannot exceed 240 characters (three full 80 character lines on most terminals).

After the selection parameters have been made, the ORALS system will select the specified reprints. After the selection run is completed, the number of reprints found will be stated. The option is then given to (1) print a bibliography, (2) print reprint numbers only, (3) change selection parameters and try again, or (4) terminate program and rethink selection.

A printed bibliography's format includes author(s), date, title of article, reference, and reprint accession number. Optionally, other fields can be listed. The user is prompted for inclusion of the keyword fields, the line length, and standard (10 pitch) or compressed (16.5 pitch) print. If the user wants only a table of reprint numbers (option 2), a double spaced listing of the numbers, 15 numbers per line will be produced. Automatic control of character pitch for 8$\frac{1}{2}$ x 11 paper is provided for the following printers: 1) TI-810; 2) TI-820; 3) TI-850; and 4) OKIDATA Microline (others can be added as warranted).

The ORALS program is currently being used at the Charleston Laboratory independently for the following data bases: (1) fish oils file; (2) Library reprint collection; (3) Laboratory staff-authored publications file; (4) special report collections; and (5) individual scientists' reprint collections.