

CUMULATED INDEX TO THE BIBLIOGRAPHY OF REPORTED
BIOLOGICAL PHENOMENA ("EFFECTS") AND CLINICAL
MANIFESTATIONS ATTRIBUTED TO MICROWAVE AND
RADIOFREQUENCY RADIATION

Compiled by Zorach R. Glaser

Indexed by Julie L. Moore

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PREFACE

This index to the bibliography of reported biological effects and clinical symptoms attributed to microwave and radiofrequency radiation exposure has been prepared by Julie Moore and Associates, in response to a need by the National Center for Devices and Radiological Health (which evolved from the former Bureau of Radiological Health), of the U.S. Food and Drug Administration. Faced with an extensive collection of reprints, abstracts, and translations of much of the world's literature on this subject, an index was needed so that the literature could be stored in an archival and easily retrievable fashion. The reference citations are from Glaser's 1971 bibliographic report, the nine supplements to that report, and recent bibliographic citations listed since 1978 in the Bioelectromagnetics Society's *Newsletter*. This literature constitutes the significant data base on microwave and radiofrequency radiation biological effects from 1930 through March 1981. The interested reader is referred to the preface of the *Ninth Supplement to the Bibliography of Microwave and RF Biological Effects* which appeared as a NIOSH technical report*. That preface is reprinted here as an aid to the user of the extensive bibliographic citations. In addition, Appendix 1 to the above cited NIOSH report is a chronology of the bioeffects bibliography and nine supplements, and contains NTIS order numbers for interested users of those reports. Appendix 2 cites the bibliographic supplements issued as part of the BEMS *Newsletter*.

Zory R. Glaser, Ph.D.
Rockville, MD 1982

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PREFACE TO THE NINTH SUPPLEMENT OF THE BIBLIOGRAPHY OF MICROWAVE AND RF BIOLOGICAL EFFECTS*

It is the hope of the author that the updating of this *Bibliography* will continue to provide guidance to the diffuse and often conflicting literature on the biological responses to electromagnetic radiation (EMR) at radio and microwave-frequencies, with particular reference to the effects of concern to humans. Such guidance is needed in the formulation and appraisal of criteria and limits of human exposure to "non-ionizing" electromagnetic radiation (EMR), and in the planning and conduct of future research.

My original plans for the *Bibliography* were to categorize and key the literature citations to the "outline of biological and clinical effects" (Chapter 1 of the initial report). This proved to be a much more difficult and time-consuming task than anticipated, and was actually completed at the time for only 400 papers. Since then, a much more extensive classification of the literature has been accomplished, using Keysort cards punched on the four axes to indicate: the research area, organ system, frequency, power level, species used, experimental data, and a summary of the results. This will be the subject of a future report.

The standard format used throughout the *Bibliography* is: author, (date), journal, volume, (issue): page, "title". The citations are alphabetized by author, and in chronological order. Multiple authored articles are also alphabetically ordered according to the second, third, etc., author. Inclusive pagination is given where possible, as is the original language of the citation. Report accession and translation numbers (some of the sources listed were listed in Appendix A of the initial report), and alternate sources are listed when known. The title of books is underlined. When the title of the report was not available (or not given), a short (one line) description of the paper is listed whenever possible. Reports in which the name of the author was not given are listed chronologically using the format, "title", reference, source, (date). In many cases the citation was obtained from secondary (and tertiary) sources. For this reason it was impossible to put every citation into a consistent format.

The original intent for the *Bibliography* was to limit the citations to those papers describing bio-effect studies using electromagnetic radiation at radio- and microwave-frequencies. Some broadening of scope has occurred, so that this *Supplement* includes a few references to recently issued relevant reports on biological studies involving pure electric or magnetic fields (alternating or static), extremely low frequency (ELF) fields, and a citation to ultrasound (which, although it is not electromagnetic radiation, is in some respects similar to RF radiation). Other citations include such topics as bio-medical studies using electromagnetic pulse radiation (EMP), high voltage (Kirilian) photography, biological dosimetry, effects of EMR on implanted electronic cardiac pacemakers, some therapeutic applications of EMR (including wound healing and bone regeneration), microwave exposure limits, regulations and standards, and such diverse applications as tissue fixation, insect control, and electroanesthesia.

The use of square brackets for explanatory notes and comments had been increased. The listing of relevant presentations made at technical meetings (especially in view of the sometimes considerable time lag before the paper appears in print) has been expanded.

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INDEXING STANDARDS

All significant words in each item's title are included as word phrases, e.i.

Peripheral blood flow
Blood flow
Specimen (if present in title)

Exceptions to this rule are the words 'microwaves', 'exposure' and 'radiofrequency' based upon the assumption that every item in the bibliographies refer to these concepts. However, when microwaves, radiofrequency fields, and exposure are the primary topic of the article, reference is made to those items under the relevant terms, e.i. *Microwave radiation vs. ultraviolet radiation* will contain the terms both 'Microwave radiation' and 'Ultraviolet radiation'. Note that 'radiation' is still not listed as a term. This article is presumed to deal with the types of radiation, not radiation *per se*.

Specimen identification is entered under the name given in the title. An effort is made to cross reference both common (vulgar) name and the scientific (Latin) name. In addition, most invertebrates, especially Bacteria and Protozoa, are identified under the class as well as the specific name, e.i. *Paramecium* spp. are also listed as 'Protozoa'. This will enable a researcher dealing with Bacteria or Protozoa to quickly identify all studies using these organisms as specimens. Otherwise there is no way of identifying all items except by checking all genera names.

Geographic entities are included only as they occur within the title.

Julie L. Moore, M.A. (L.S.)
Riverside, CA 1982

Appendix 1.

Chronology of the Bibliography and Supplements

Report/Supplement	Date Released	Contains Citation Numbers	Number of Citations	NTIS ⁶ Order No.
Original Bibliography ¹	10/4/71	1-1966	1966	AD 734-391
Revised Bibliography ¹	4/20/72	1-1966	[1966]	AD 750-271
Alphabetical Addenda ¹	10/4/71	1967-2054	[87]	
Supplement No. 1 ¹	10/5/71	2055-2072	[17]	
Supplement No. 2 ¹	11/21/71	2073-2101	[28]	
Supplement No. 3 ¹	4/17/72	2102-2311	209	
Supplement No. 4 ²	6/1/73	2312-2638	326	AD 770-621
Supplement No. 5 ³	7/25/74	2639-3124	486	AD 784-007
Alphabetical Addenda (to Supplement #5) ³		3125-3136	11	
Supplement No. 6 ³	6/27/75	3137-3378	241	AD A015-622
Supplement No. 7 ⁴	5/12/76	3379-3723	344	AD A025-354
Supplement No. 8 ⁴	8/13/76	3724-4055	331	AD A029-430
Compilation & Integration of Revised Biblio. + 7 Suppls. + Addenda (to #5) ⁴	9/27/76	1-3723	3723	?
Supplement No. 9 ⁵	11/8/77	4056-4623	567	PB 83-176 537

Report issued by:

¹Naval Medical Research Institute (NMRI) Bethesda, MD 20014.

²Research Division, Bureau of Medicine & Surgery, Dept. of the Navy, (BUMED) Washington, D.C. 20372.

³Electromagnetic Radiation Project Office, Naval Medical Research & Development Command, (NMRDC) Bethesda, MD 20014.

⁴Naval Medical Research Institute (NMRI) Detachment, Naval Surface Weapons Center, Dahlgren, VA 22448.

⁵National Institute for Occupational Safety and Health (NIOSH) Rockville, MD 20857.

⁶National Technical Information Service (NTIS) Springfield, VA 22151.

APPENDIX 2

Listing of Bibliographic Supplements on "Bioeffects of RF/Microwave Radiation" which have appeared in the Bioelectromagnetics Society's Newsletter

List #	Newsletter Issue #	Newsletter Date	Number of Citations
1		9/78	21
2	2	11/78	22
3	3	12/78	22
4	4	1/79	34
5	5	3/79	29
6	7	6/79	23
7	8	7/79	34
8	10	11/79	56
9	11	1/80	29
10	13	3/80	30
11	15	6/80	32
12	16	8/80	32
13	20	2/81	66
14	21	3/81	33
Total			464

Copies of back issues of the Bioelectromagnetics Society's Newsletter are available at a cost of \$1.00 each directly from the Newsletter office:

BEMS Society, P.O. Box 3651, Arlington, VA 22203.

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24,000 MHz, 106, 291, 292,
295, 296, 300, 552, 719,
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30,000 MHz, 1000
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