

**BIBLIOGRAPHICAL DATABASE OF
RADIATION BIOLOGICAL DOSIMETRY AND RISK ASSESSMENT**

**PART I
(through June 1988)**

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FOREWORD

This database was constructed to support research in radiation biological dosimetry and risk assessment. Relevant publications were identified through detailed searches of national and international electronic databases and through our personal knowledge of the subject. Publications were numbered and key worded, and referenced in an electronic data-retrieval system that permits quick access through computerized searches on publication number, authors, key words, title, year, and journal name. Photocopies of all publications contained in the database are maintained in a file that is numerically arranged by citation number. This report of the database is provided as a useful reference and overview. It should be emphasized that the database will grow as new citations are added to it. With that in mind, we arranged this report in order of ascending citation number so that follow-up reports will simply extend this document.

The computer software used for the database is a simple but sophisticated relational database program that permits quick information access, high flexibility, and the creation of customized reports. This program is low cost and is commercially available for the Apple Macintosh and the IBM PC. Although the database was entered using a Macintosh computer, we do have the capability to convert the files into the IBM PC version. Additional information regarding the database, including software, will be made available upon request from Dr. Tore Straume, Lawrence Livermore National Laboratory, P.O. Box 5507, Livermore, CA 94550, (415) 422-5138.

As of this date, the database cite 1212 publications. Publications are from 119 different scientific journals, 27 of these journals are cited at least 5 times. It also contains reference to 42 books and published symposia, and 129 reports. Information relevant to radiation biological dosimetry and risk assessment is widely distributed among the scientific literature, although a few journals clearly dominate. The 27 journals cited at least 5 times are shown in Figure 1. The four journals publishing the largest number of relevant papers are Health Physics, Mutation Research, Radiation Research, and International Journal of Radiation Biology. Publications in Health Physics make up almost 10% of the current database.

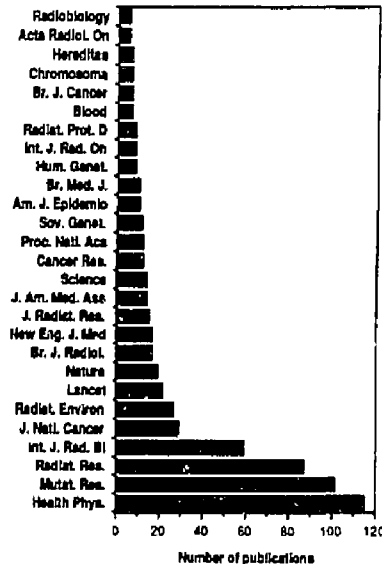


Figure 1. Journals cited five or more times in the database.

General scientific interest in a field of research can often be inferred from temporal trends in the number of relevant publications. The trend for the publications in our database is shown in Figure 2. We observe a continuing increase in the number of publications, beginning with very few in the middle 1950s and early 1960s, but increasing dramatically during the 1970s and 1980s, with no indication of leveling off. More than 500 publications are from the five-year period 1983 through 1987.

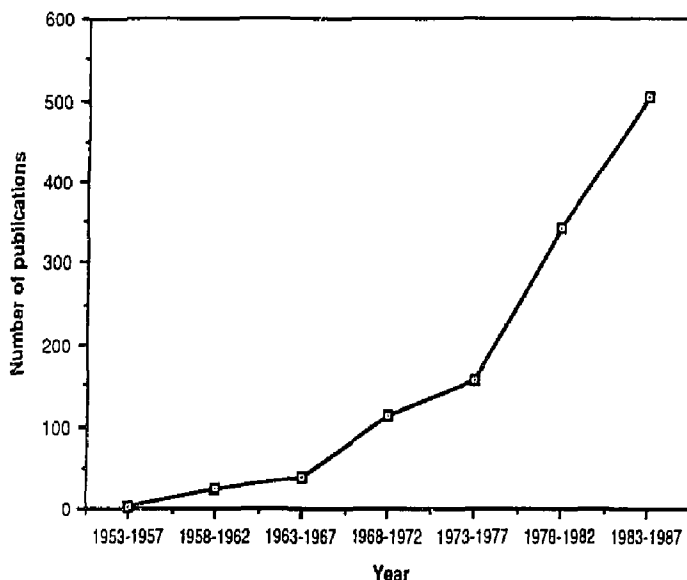


Figure 2. The number of publications in 5-year intervals from 1953 through 1987.

Author and subject indices are included on pages 191 through 205 of this report. These indices refer to our publication acquisition numbers which are listed with each publication cited in the database. The author index includes first authors only.

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