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ACCELERATOR PRODUCED NUCLIDES FOR USE IN BIOLOGY AND MEDICINE

A Bibliography
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INTRODUCTION

This bibliography the third in the current series (No. 1 BNL 50448, TID-4500, No. 2 BNL 50448-II-UC23, TID-4500) reflects the continued growth of the application of accelerator produced radionuclides in biomedical research and in routine clinical application in the diagnosis and treatment of human disease. While CAT scanning has made considerable inroads in areas previously addressed with radioisotopes, and NMR promises to replace some areas of applicability of CAT scanning and perhaps become applicable to some metabolic and functional studies in humans in the future, the use of radionuclides still remains uniquely suited to studying function, metabolism and biochemistry in the healthy and diseased state in human beings.

The upsurge in application of positron emitters in conjunction with PETT continues and is reflected in the fact that in 1976 there were only four centers having both a PETT scanner and a dedicated cyclotron. Twenty eight such centers exist in 1983, a number which can be expected to double by 1985. Thus the preparation of these bibliographies will continue, although the goal of complete coverage is becoming more difficult because of the appearance of pertinent references in journals in the fields of neurology, cardiology, oncology and geriatrics. It is of course obvious from this that the traditional field of nuclear medicine is becoming somewhat blurred because of the increasing and dedicated widespread use of radionuclides in other medical specialties. In fact no attempt is made to provide complete coverage of the medical uses of such standard nuclides as ^{201}TI , ^{131}I , and the various Sr and Ga products.

This bibliography continues to follow the format of the first two bibliographies. It is extensively cross referenced, with the number assigned to a reference being carried through the bibliography wherever that reference reappears. However, the author index lists only the initial indexing and does not include the pages where the reference is given either initially or when cross referenced. Due to a technical problem, the reference numbers for 11C begin at 2001 rather than in their logical numerical order (after reference 447). Numbers 448-460 are unused.

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The compiler wishes to thank the BNL Research Library, especially Madeline Windsor, for very helpful assistance and Nancy Sautkulis for her patience and accuracy in typing this bibliography.

We hope that future volumes will appear in a more timely and regular fashion as references are now being computer stored and indexed. We hope this will make the preparation of these bibliographies considerably less time consuming.

As previously requested we would be extremely grateful to the users of this bibliography should they be kind enough to bring to our attention articles and nuclides we may have missed for inclusion in this bibliography, which covers the published literature from July 1976 to December 1980. Such oversights will be included in the next volume.

August 1983

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Krypton-77, 79, 81m, 83m

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