# RADIOACTIVE ISOTOPE

# DEFINITION:

The elements having atomic number greater than 83 are unstable and emit radiation to be stable.

- RADIONUCLEIODS:
  - e.g. Uranium (92), Radium (88), Palladium (91), Francium (87), Radon (86), Iodine (131)
- At least with one stable and
- one unstable isotope.



# **Radioisotopes In Biology**

**Audrey V. Wegst** 

#### Radioisotopes In Biology:

**Radioisotopes in Biology** Robert J. Slater, 2002 The book provides an introduction to the use of radioactivity in the bioscience laboratory An introduction sets the scene before two chapters that cover general aspects of radioactivity Methods for the detection of radioactivity are covered in two chapters that deal with scintillation counting and autoradiography Four chapters are concerned with the radioisotope protocols used to study key cellular processes radiolabelling of nucleic acids and proteins subcellular localisation and identification of macromolecules immunoassay methods and pharmacological techniques Two chapters provide a summary of legislative requirements in the USA and European Union and there is an Radioisotopes in the Human Body F. W. Spiers, 2013-10-22 Radioisotopes in Appendix of useful facts and addresses the Human Body Physical and Biological Aspects provides a unified presentation of the manner in which radioisotopes are deposited in the human body This book focuses on bone structure and the irradiation of bone because so many of the available radioisotopes are deposited in bone Organized into nine chapters this book begins with an overview of the physical considerations that are significant to the dosimetry of internally deposited radioisotopes. This text then examines the structure and formation of bone in some detail Other chapters consider the importance of bone in relation to potential radiation damage This book discusses as well the relationship between radiation dose and radiobiological effects The final chapter deals with the case of internal irradiation by radioisotopes This book is a valuable resource for biologists health physicists scientists and students Radiation protection officers and individuals who have responsibilities for the safe use of radioactive substances will also find this book useful Radioisotope Experiments in High School Biology Evelyn M. Hurlburt,1966 Radioisotopes in the Biological Sciences, 1967 This bibliography contains a total of 959 selected references on the use of radioisotopes in biological research These references were selected from the scientific literature published during the period 1958 1963 Author isotope and report number indexes are included Radioisotopes in **Biology** ,1949 Radioisotopes in Biology R. J. Slater, 1990 Radioisotopes in Biology and Medicine Audrey V. Wegst, 1964 Radioisotopes in Biology Slater, Peter, Molecular Cell Biology Harvey Lodish, 2004 The fifth edition provides an authoritative and comprehensive vision of molecular biology today It presents developments in cell birth lineage and death expanded coverage of signaling systems and of metabolism and movement of lipids Cell and Molecular Biology Gerald Karp, 2009-10-19 Karp continues to help biologists make important connections between key concepts and experimentation The sixth edition explores core concepts in considerable depth and presents experimental detail when it helps to explain and reinforce the concepts The majority of discussions have been modified to reflect the latest changes in the field The book also builds on its strong illustration program by opening each chapter with VIP art that serves as a visual summary for the chapter Over 60 new micrographs and computer derived images have been added to enhance the material Biologists benefit from these changes as they build their skills in making the connection Library of Congress Subject

Headings Library of Congress, 1990 **Isotopes in Biology** George Wolf, 2013-09-24 Isotope is Biology is a six chapter supplementary text that covers the properties and application of isotopes as labels or analytical tools in biological research The first chapters deal with the physico chemical properties and radioactivity of isotopes These chapters also explore their synthesis preparation radiation decomposition and decay of radioactivity. The succeeding chapter considers other aspects of isotopes including their effect of health disposal spills and laboratory use Another chapter examines the chemical and biochemical behavior natural abundance and the chemical stability of isotopic compounds. The final chapters describe several isotopic methods namely isotope dilution paper chromatography and autoradiography with emphasis on their application in biological studies This book will be of value to biologists and graduate and undergraduate biology students **Combined** Subject and Author Indexes to Radiobiology Bibliographies U.S. Atomic Energy Commission. Division of Technical Information, 1967 *Isotopes and Radiation in Biology* C. C. Thornburn,1972 Library of Congress Subject Headings P-Z Library of Congress. Office for Subject Cataloging Library of Congress. Office for Subject Cataloging Policy, 1990 Policy,1990 *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch, 1974 Radioisotope Experiments in Physics, Chemistry <u>Utilization of Radioisotopes in Physical and Biological Sciences--general Topics</u> J. A. and Biology J. B. Dance, 1973 Library of Congress Subject Headings: F-O Library of Congress. Subject Cataloging Division, 1988 McCormick.1959

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