

RADIOACTIVE ISOTOPE

- **DEFINITION:**

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

- **RADIONUCLEIIDS:**

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

Cyril Lewis Comar



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 Appendix of useful facts and addresses Radioisotopes in the Human Body F. W. Spiers, 2013-10-22 Radioisotopes in 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 Biology**, 1949 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 and Agriculture Cyril Lewis Comar, 1955 Principles of tracer methodology Basic difficulties in tracer methodology Health physics and radiation protection Facilities and handling of radioisotopes with animals and plants General procedures for radioassay Properties and procedures for individual radioisotopes Autoradiography Paper chromatography Ion exchange Radioactivation analysis **Radioisotopes in Biology** R. J. Slater, 1990 Radioisotopes in Biology and Medicine Audrey V. Wegst, 1964 **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

Isotopes and Radiation in Biology C. C. Thornburn, 1972

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