

APPLICATIONS OF RADIOISOTOPES IN AGRICULTURE

Ravindra Sachan

Ph.D. Soil Science and Agril. Chem.,
CSAUAT, Kanpur

International Atomic Energy Agency (IAEA) promotes the wider use of radioisotopes and radiation sources in research, industry, agriculture and medicine. Food and Agriculture Organization (FAO) and IAEA works to facilitating development and adoption of nuclear technologies at national and international levels for improving agricultural productivity. For example, radioisotopes and controlled radiation are used to improve food crops, preserve food, determine groundwater resources, sterilize medical supplies, analyse hormones, X-ray pipelines, control industrial processes and study environmental pollution. A great many of the objects we use in our daily life have in some way benefited from radiation during their production. Some radioactive elements, such as radium, are found in nature, but most radioactive materials are produced in nuclear reactors or by accelerators.

Radioisotopes and Radiation

Isotopes are two or more forms of the same elements that contain the same number of protons but different number of neutrons. This makes them different in relative atomic mass but not chemical properties. Radioisotopes is a naturally or artificially produced radioactive isotope of an element. If the nucleus contains either excess of neutrons or protons, the force between these constituents will be unbalanced leading to unstable nucleus.

The unstable nuclei of an element can undergo the variety of processes resulting in the emission of radiation in two forms, namely, radioactivity and nuclear reactions. In a radioactive decay, the nucleus spontaneously disintegrates to different species of nuclei or to a lower energy state of the same nucleus with the emission of alpha (α), beta (β), and gamma (γ) radiation is called **radioactivity**.

Applications of radioisotope in Agriculture

In agriculture, radioisotopes are used in the nutritional studies of major and minor elements, mechanism of photosynthesis studies, plant protection, plant pathology, action of insecticides, uptake of fertilizers, ions mobility in soil, and plants and food preservation. In order to determine the correct nutrition for a plant we need to know the exact soil plant relationship and the factors involved therein.

[1] Water Resource Management

Isotope hydrology utilizes the natural variance in the composition of water. Radioisotopes such as tritium (${}^3\text{H}$) and carbon (${}^{14}\text{C}$) are used to determine the age of water, whilst stable isotopes can be used to determine the source's history, rainfall conditions, mixing/interaction characteristics of related water bodies, pollution processes, and evaporation processes. For surface waters they can give information about leakages through dams and irrigation channels, the dynamics of lakes and reservoirs, flow rates, river discharges, and sedimentation rates. Neutron probes can measure soil moisture very accurately, enabling better management of land affected by salinity, particularly in respect to irrigation.



Radioisotopes In Biology Agriculture

C. L. Comar



Radioisotopes In Biology Agriculture:

A Conference on Radioactive Isotopes in Agriculture Argonne National Laboratory,1956 **Radioisotopes in Biology and Agriculture, Principles and Practice** C. L. Comar,2003-01-01 *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 and Agriculture, Principles and Practice* C L 1914- Comar,2015-09-06 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **Special Sources of Information on Isotopes** F. E. McKinney,1968 *Isotopes and Radiation Technology* ,1967 Combined Subject and Author Indexes to Radiobiology Bibliographies U.S. Atomic Energy Commission. Division of Technical Information,1967 The Effects of Radiation and Radioisotopes on the Life Processes: Index ,1963 **The Effects of Radiation and Radioisotopes on the Life Processes** Charles M. Pierce,U.S. Atomic Energy Commission,1963 **Bibliography on Nuclear Reactor Fuel Reprocessing and Waste Disposal: Fission product, poison and radioisotope removal** T. F. Connolly,1960

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