

APPLICATIONS OF RADIOISOTOPES IN AGRICULTURE

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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

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