

## **Nuclear Medicine: Historical, Current, and Prospective**

Nuclear medicine is a field of medicine that uses a trace amount of radioactive substances for the diagnosis and treatment of many health conditions such as certain types of cancer, neurological and heart diseases.

Over the past decade, the medical sector has witnessed significant advances, particularly in the understanding of biological and pathological processes at the molecular level. The increase of chronic diseases worldwide, including cancer and cardiovascular diseases has led to the development of a new biomedical research discipline, called 'molecular', which enables the visualization, characterization and quantification of biological processes taking place at the cellular and subcellular levels in the living human body.

The IAEA has worked for over 60 years to promote the use of nuclear techniques in medicine by collaborating with its Member States and other organizations through several mechanisms that include improving infrastructure and training of human resources. The IAEA's aim is to help build or strengthen Member States' capabilities to address their needs in relation to the prevention, diagnosis and treatment of health problems through the application of nuclear techniques, including Nuc Med.

We wait for you tomorrow in Air Forces Museum in Cairo to know what is important