ON-GOING RESEARCH PROJECTS AT ANKARA NUCLEAR RESEARCH CENTER IN AGRICULTURE AND ANIMAL SCIENCE

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The research and development activities of Ankara Nuclear Research Center in Agriculture and Animal Science(ANRCAA) are concentrated on the contribution of atomic energy to peace by the use of nuclear and related techniques in food, agriculture and animal science. Nuclear techniques are used in the above fields in two ways: *in vitro* or *in vivo* radiotracing the substances and processes of biological importance, and irradiation of biological materials for preservation and quality modification. Research projects are carried out by interdisciplinary studies with well equipped laboratories at the Center. The prjects in progress conducted by the Center comprises nuclear-aided researches in soil fertility, plant nutrition, plant protection, improvement of field crops, improvement of horticultural plants and forest trees by mutation breeding, *in vitro* culture technique with mutagen treatments, use of phosphogypsium in soil amelioration, sterilazation of medical supplies, wastewater treatment, animal nutrition, animal health and productivity and accreditation. The on-going projects with the above subjects will be summarized for possible collaborations.

NUCLEAR MEDICINE - THE CONDITION AND PROSPECTS

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The nuclear medicine has rather strongly determined the place in clinical and diagnostic practice. Statistical researches show, that, even despite of the certain successes in treatment of many diseases, rather high death rate at cardiovascular, oncological and many other diseases.

The urgency of clinical tasks connected with a state of health of the population puts before nuclear medicine a (task) on development and introduction of new methods of diagnostics and therapy.

The nuclear medicine is characterized by some number of diagnostic and therapeutic methods which application frequently does not have other alternative. The methods of visualization used in nuclear medicine, are full informative, exact and have ability to reveal structurally functional changes of bodies and fabrics practically at a cellular level. To present time diagnostic radiopharmacy (Ph) wed practically in all clinical areas of medicine. In world practice steady growth of increase of manufacture as diagnostic and radiotherapeutic RP was planned.