

Radiological Hazard Assessment and Health Implications due to Soils of Medicinal Plants in Peninsular Malaysia

Wednesday, 5 November 2025 12:00 (15 minutes)

Soil plays an essential role in the earth's surface systems, being an essential source of human radiation exposure and facilitating radionuclides' mobilisation into the environment. Investigating radioactivity levels in cultivation areas is necessary to safeguard soil, water, and air quality and foster sustainable development. The levels of natural radioactivity in the planting soils of medicinal plants remain scarce. Therefore, comprehensive data is needed to identify appropriate actions toward achieving the United Nations Sustainable Development Goals (SDGs) and safe and quality medicinal plants for traditional medicine and drug synthesis. This study aims to assess the potential radiological risks posed to the residents of medicinal plant cultivation areas in Pahang and Selangor, Malaysia, by evaluating various radiological parameters.

Technical Track

Nuclear Applications and Radiation Processing

Primary author: MOHAMED, Faizal (Professor)

Session Classification: Nuclear Applications and Radiation Processing