

SCIENTIFIC FORUM

NUCLEAR SCIENCE FOR DEVELOPMENT

ATOMS
FOR
WATER



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Yurina Sekine is Principal Researcher and Laboratory Leader at the Japan Atomic Energy Agency (JAEA), where she develops biomass-based materials for sustainable water purification and recovery of radioactive substances. She pioneered innovative adsorbents, including cellulose hydrogels and waste-derived bone materials, for removing uranium, strontium, heavy metals and PFAS. Her work, recognized by the Chemical Society of Japan with the Award for Promising Female Chemists, advances radiation-compatible solutions for water treatment.