



(Name) Seokjoo Yoon, DVM, Ph.D.

(Position/Title) Principal research scientist/KIT

Professor/UST

President/KSAAE

(Affiliation)

- Department of Advanced Predictive research

Korea Institute of Toxicology

- Human and Environmental Toxicology

University of Science and Technology (UST)

Daejeon, Republic of Korea

Dr. Seokjoo Yoon is a Principal Research Scientist at the Korea Institute of Toxicology (KIT) and the President of the Korean Society for Alternatives to Animal Experiments (KSAAE) for the 2025–2026 term. His leadership extends to his recent role as Vice President of KIT from 2021 to 2024.

Dr. Yoon's academic journey began with a Ph.D. in Toxicology from Hokkaido University, Japan. He further honed his expertise through post-doctoral training at the Division of Molecular Toxicology, Karolinska Institute, Sweden, and as a Research Professor at Hanyang University, Korea.

Since joining KIT in 2003, Dr. Yoon has been establishing the field of toxicogenomics within the institute. His international experience includes a stint as a visiting scientist at the National Center for Computational Toxicology, U.S. Environmental Protection Agency. Concurrently, he holds a professorship in Human and Environmental Toxicology at the Korea University of Science and Technology (UST).

With over 100 publications to his name, Dr. Yoon's research prowess is well-documented. As the former Director of the Department of Predictive Toxicology at KIT, he spearheaded innovative developments in alternative testing methods, including biomarker discovery, human pluripotent stem cell-derived models, zebrafish-based drug screening, 3D cell culture techniques, organoid development, and in silico toxicology.

Dr. Yoon's notable achievements include the successful development of "Toxstar," a hepatotoxicity prediction program, and more recently, "NanoTox Radar," a government-funded project for predicting nanomaterial toxicity. His expertise is recognized

internationally, as evidenced by his active involvement in ISO TC229/WG3 (Nanotechnology) and OECD Working Party on Manufactured Nanomaterials (WPMN) activities.

Throughout his career, Dr. Yoon has made significant contributions to the advancement of alternative testing technologies in the Republic of Korea. His work has been pivotal in reducing reliance on animal experiments, showcasing his commitment to ethical and innovative approaches in toxicology research.