Research Engineer. Yongsu Kim

Korea Conformity Laboratories, Republic of Korea

Research Engineer and GLP Study Director

– Korea Conformity Laboratories (KCL)

GLP-compliant aquatic toxicity studies are led at KCL, generating high-quality, reproducible data to support regulatory decision-making for complex nanomaterials with dynamic physicochemical behaviors. As part of a national R&D initiative for the Nanomaterial Safety Assessment Support Center, contributions were made to developing hazard evaluation frameworks and advanced testing strategies tailored to emerging nanomaterials, bridging gaps in conventional OECD-based methodologies.

Active participation in ISO/IEC TC 229 “Nanotechnologies” meetings has contributed to international standardization efforts in nanomaterial characterization, safety assessment, and regulatory harmonization. This experience has strengthened expertise in integrating standardized physicochemical characterization with ecotoxicological evaluation to enhance reproducibility, regulatory relevance, and cross-border comparability.

Current research focuses on ecotoxicological assessment of advanced nanomaterials, implementation of integrated approaches to testing (IATA), and development of harmonized methodologies for next-generation nanosafety evaluation.

An M.S. in Environmental and Energy Engineering was earned from Chonnam National University, with research centered on ecological risk assessment of veterinary pharmaceuticals using OECD test systems, including derivation of EC_{50} and PNEC values.