

PROFILE



World Institute of Kimchi(WiKim)

The Global Hub for Kimchi culture and Fermentation Science

- ✓ Advanced Biotechnology
- ✓ Smart Factory
- ✓ Healthcare
- ✓ Next-Generation Storage & Distribution
- ✓ Quality Standardization



Website QR

Information

Main Contact	+82-62-610-1700
Website	https://www.wikim.re.kr
Purpose of Establishment	To foster and advance the kimchi industry by conducting R&D to enhance the status of Kimchi's country of origin and promote the creative advancement of global kimchi culture
Main Responsibilities	- Developing high-quality commercial kimchi production technologies, covering raw materials, manufacturing processes, microbiology and fermentation, as well as storage, distribution, packaging, hygiene, and safety - Conducting convergence and innovative R&D to drive the growth and development of the kimchi industry and its related sectors - Scientifically proving the excellence of kimchi and leading its global expansion
Planned Recruitment	2 positions

Contact

 Department	Human Resources Management Department
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Key Achievements



Development and Commercialization of Industry-Driven Kimchi Starter Application Processes



Implementation of an AI-Enabled Smart Factory for Kimchi Production



Scientific Elucidation and Clinical Validation of Kimchi Health Benefits

Research & Project List

Development of a Global Standard Platform for Kimchi Factories

Development of a Global Kimchi Factory Platform Integrating Customized Manufacturing, Standard Certification, and Digital Twin Technologies

Development of Novel Biomaterials Derived from the Kimchiome

Development of Functional Biomaterials and Health Functional Foods from Kimchi-Derived Lactic Acid Bacteria, Bioactive Compounds, and Bacteriophages

Development of Starter Culture-Based Fermentation Kinetics Control and AI Prediction Technologies for Kimchi

Development of AI-Driven Starter Culture Technologies for Intelligent Kimchi Fermentation through Data-Based Strain Development and Commercialization

Development of Next-Generation Technologies for Long-Term Distribution and Quality Preservation of Kimchi

Development of Export-Oriented Technologies for Long-Term Storage, Quality Preservation, Distribution Processes, and Predictive Quality Evaluation of Kimchi

Elucidation of the Health-Promoting Effects of Kimchi

Elucidation of Anti-Obesity and Gut Health Mechanisms and Development of Kimchi-Derived Functional Biomaterials for Efficacy Validation and Commercialization

Development of Life Cycle-Based Quality Management Technologies for Kimchi

Development of Integrated Life Cycle Quality, Safety, and Hygiene Management Technologies for Kimchi