

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, fermentation, and safety technologies - Conducting convergence & innovative R&D for kimchi and related industries - Scientifically proving kimchi's excellence and leading its global expansion
Planned Recruitment	To be Determined

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

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Development of a Global Kimchi Factory Platform Integrating Customized Manufacturing, Standard Certification, and Digital Twin Technologies
- Development of Novel Biomaterials Derived from the Kimchiome

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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

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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

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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

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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

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