

PROFILE



Korea Basic Science Institute (KBSI)

World-class open research platform to drive scientific advancement and growth of research industries

✓ Semiconductor and Display

✓ Secondary Battery

✓ Advanced Biotechnology

✓ Artificial Intelligence (AI)



Website QR

Information

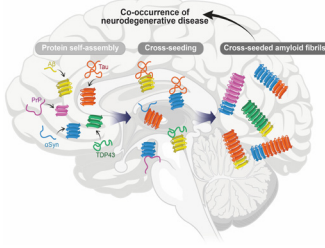
Main Contact	+82-42-865-3500
Website	https://www.kbsi.re.kr
Purpose of Establishment	Carry out R&D on research facilities, equipment, and analytical science technologies, as well as research support and collaborative research, to promote basic science as the foundation for national science and technology advancement.
Main Responsibilities	· Establishment and Operation of Research Infrastructure · Development of Analytical Technology · Research Equipment Development · Comprehensive Management of National Research Facilities and Equipment
Planned Recruitment	8 positions

Contact

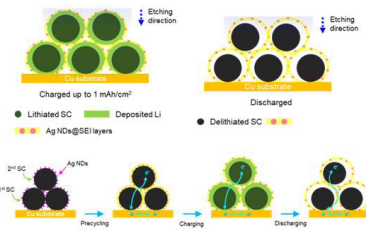
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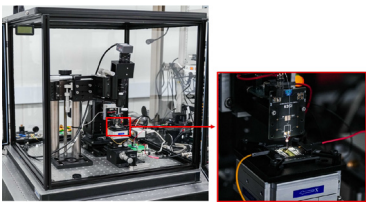
Key Achievements



Identifying Therapeutic Targets and Uncovering Molecular Mechanisms for Intractable Brain Diseases



Advancing Battery Degradation Analysis and Safety through Interfacial Reaction Analysis



Developing and Commercializing Advanced Equipment for Semiconductor Thermal Management and Reliability

Research & Project List

- Operation of National Research Facilities and Equipment

Advance and facilitate the shared use of national large-scale research facilities and equipment through dedicated infrastructure management.
- Development of Environment-Adaptive Smart Battery Technologies

Sustainable energy storage technologies for a safer and more resilient energy future.
- Development of Early Detection Solutions for Pancreatic Cancer

Blood omics-based diagnostic assays for the early detection of pancreatic cancer.
- Development of Power Semiconductors for High-Power Energy Systems

Advanced Ga₂O₃-based semiconductor materials and devices for next-generation power systems.
- Development of a Physical AI-Based Autonomous Operation System for Large-Scale Accelerators

AI-powered autonomous accelerator operation for enhanced research productivity.
- Construction of a Multipurpose Synchrotron Radiation Facility

Establish a world-class multipurpose synchrotron radiation facility to advance industrial applications and strengthen fundamental science and technology capabilities.