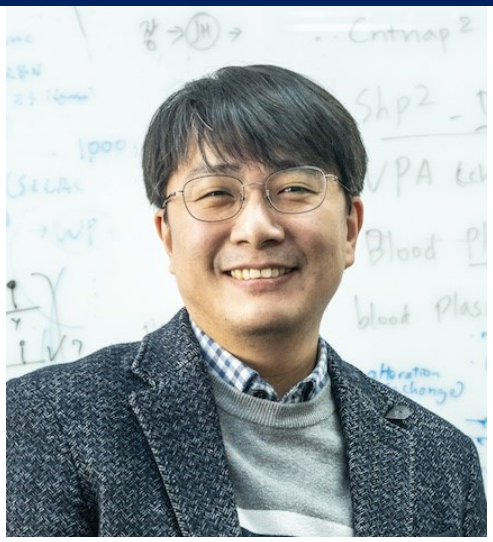
特別講演開催のお知らせ



A Leading Proteomics Expert from South Korea

開催日時：2025年9月22日16:00

場所：研究棟1階セミナールーム

Prof. Min-Sikは、質量分析（MS）を基盤としたプロテオミクス研究の国際的なリーダーであり、シングルセル・空間プロテオミクスなどの先端技術を開発・応用されています。本講演では、MSの基礎から最新の応用までを幅広く紹介し、がん研究を含む生命科学分野での活用について議論いただきます。

皆様のご参加を心よりお待ちしております。

Mass Spectrometry-based Proteomics for Biomedical Research

Prof. Min-Sik Kim

Department of New Biology, Daegu Gyeongbuk Institute of Science and Technology (DGIST), South Korea

Mass spectrometry (MS) is a highly sensitive analytical technique that measures the mass-to-charge ratio of gaseous ions generated from a sample. Widely used across various scientific disciplines, MS has become an essential tool in biomedical research. High-resolution MS enables the precise detection and quantification of proteins, lipids, and metabolites, making it the most widely adopted technology for both proteomics and metabolomics. By allowing quantitative exploration of complex biological systems, MS-based approaches offer valuable insights into diverse biological processes and disease mechanisms. For instance, analyses of protein expression patterns, post-translational modifications, protein–protein interactions, and protein turnover dynamics can help identify molecular mechanisms underlying diseases and reveal dysregulated signaling pathways. In this seminar, I will introduce the fundamentals of MS and MS-based proteomics and discuss its applications, such as single-cell proteomics and spatial proteomics in biomedical research, with a focus on areas such as cancer biology.

連絡先：希少がん研究分野　近藤　格（内線 6073）