

## 세미나 초록

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<b>발표 주제</b>	Multi-dimensional omics analysis for a comprehensive understanding of disease-disease associations
<b>발표 내용</b>	<p>Understanding comorbidities and other associations between diseases is clinically important but still challenging. With the drastic improvement of omics technologies, including single-cell transcriptome analysis, diverse similarity measures between diseases have been developed based on qualitative or quantitative changes in cell types, cellular processes and signaling pathways, proteins, genes, and genetic variants. To introduce this multidimensional approach for identifying potential disease-disease associations, here, we will present one of the case studies, which is a single-cell transcriptome approach to post-COVID pulmonary fibrosis (PCPF) and idiopathic pulmonary fibrosis (IPF). Furthermore, we will also introduce a brief research plan for expanding these case studies into a generalized model by using a large-scale of biological data. Describing the multidimensional nature of diseases using this omics approach facilitates the evolution of conventional concepts for a disease-disease network, as well as the identification of uncharted clinical implications and potential therapeutic targets.</p>