Press Release   December 15, 2021
                                                                            Knowledge Palette, Inc.

Knowledge Palette Executed a Collaborative Research Contract with Mitsubishi Tanabe Pharma Corporation on Data-Driven Drug Discovery

We develop a new data analysis technology which correlates whole transcriptome data with morphology image data of human cells

- Knowledge Palette, Inc. executed a collaborative research contract with Mitsubishi Tanabe Pharma Corporation ("MTPC") for developing a new data-driven drug discovery method through integrative analysis of whole transcriptome data and morphology image data of human cells.
- In this research, we treat human cells with wide variety of compounds and obtain whole transcriptome data by our large-scale transcriptome technology and cell morphology image data by MTPC imaging technology. We then conduct integrative analysis of these data based on bioinformatics and identify genes and pathways of the cells linked with morphology changes resulting from chemical treatments. Based on the results, we plan to develop a data analysis technology which can reveal mechanisms of cell morphology changes by chemical treatment.
- We would establish a new data-driven drug discovery method based on this data analysis technology.

About Knowledge Palette, Inc.

Knowledge Palette is a Japanese biotechnology company conducting phenotypic drug discovery, biomarkers identification, and improvement of regenerative medicine manufacturing based on our single cell transcriptome analysis technology (Quartz-Seq2), which was ranked No.1 for both accuracy scores and overall scores in an international benchmark project in 2020. We are collaborating with pharmaceutical companies and research institutes on acceleration of drug discovery as well as optimization of cell culturing for regenerative medicine.

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