

Realization of a safe, secured, and comfortable town by removing a slight amount of hazardous substances hiding in living environments

Development of platform technology to detect virus specifically in the air

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Summary :

We aim at developing the platform technology to specifically detect virus in the air directly without using water.

The academic discussion on the interactive forces between the molecules in the air has never been performed and scientists do not know what kind of molecular recognition occurs in the air. It might be because there are no examples in nature. Even when we sense odorants with nose, the molecular recognition occurs in water since our nerves and receptors exist in water. We scientists know much about the molecular interactions in water but not in the air.

However, specific detection of target molecules in the air is very important because there are lot of harmful compounds in the air, therefore we decided to develop detection system for those.

