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## Poster PO9.6

## Natural Compounds Potentially Suppressible Corona Virus Infection Disease

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## Abstract

As we recognized from 2015's pandemic of Middle East Respiratory Syndrome Corona Virus (MERS-CoV) infection in South Korea, emerging viral infections are threatening the national healthcare system and have a negative impact on social security. As we have developed novel anti-viral compounds to treat emerging viral infection, most of all, we have sought natural compounds potentially suppressible MERS-CoV infection from natural plants used in traditional medicine by using image-based high throughput screening (HTS) system. We found some natural flavonoids and steroids significantly inhibits MERS-CoV infection (IC50 < 10 micro mole) as maintaining high cellular viability. Our results indicate that these natural compounds may be useful for alternative clinical application of treating MERS-CoV infection disease.

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