

(個人照片)

- 研究主題及規劃研究方向：
- 聯絡方式：
- 研究專長：
- 希望徵求合作對象說明：

Aim 4.1: To design siRNAs among the consensus region of various enteroviruses

Molecular comparison is supported in Subproject 2 that conserved sequence of various enteroviruses, particularly at UTR regions in multiple alignment, will be focused to selectively subject for siRNA synthesis. Aiming to suppress viral replication with broad-spectrum effect.

Aim 4.2: To quantify the inhibitory effect of each siRNA *in vitro*

Each siRNA is proposed to test its inhibitory effect on viral suppression assay[9] and determine the minimal effective dose in the viral production cell line. A couple of siRNAs can also be pooled together as cocktail formulation aiming to meet the criteria of broad-spectrum inhibition.

Aim 4.3: To determine the maximal safety dose in primary target cell lines

Safety/toxicity issues of siRNA and cocktail formulation is proposed to test in primary target cell lines of muscle and neuronal cells for HFMD and AFM, respectively. Aiming to determine the maximal safety dose for functional dosing evaluation upon properly delivered to the infection site.