

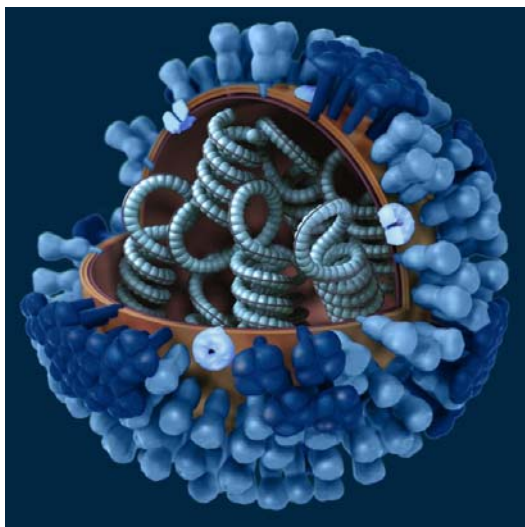
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City of Hope

NATIONAL MEDICAL CENTER AND
BECKMAN RESEARCH INSTITUTE

Novel siRNA modification to induce an interferon response



DESCRIPTION

This technology is a method of attaching a triphosphate molecule to a transcribed RNA to induce interferon alpha and beta within a cell, as well as elicit a strong non-sequence-specific immunostimulatory response. This approach, when combined with the sequence specific effect of siRNA produces a synergistic immunostimulatory response. This siRNA modification is broadly applicable in many siRNA therapeutic approaches that may be used to treat viral infections and cancers.

KEY ASPECTS

- This modification provides any siRNA with strong immunostimulatory properties
- Useful against both viruses and cancer
- This modification allows for any siRNA despite its sequence to stimulate Interferon alpha and beta
- This is a broadly applicable platform technology across most siRNA therapeutics undergoing commercial development

INTELLECTUAL PROPERTY

Title	US Application Number	Filed
Double Stranded and Single Stranded RNA Molecules with 5' Triphosphates and their Use for Inducing Interferon	11/859,306	2/4/2005

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