RNA Modulators of RIG-I

OCR Number: OCR 6056

Description:

RNA Hairpin Molecules as Immunomodulatory Agents

- **Background:** Short hairpin RNA molecules (shRNA) induce interferon production via Rig-I like receptor mechanism.
- Efficacy demonstrated in mouse models of viral infection (see figure on the right). Use in oncology is being investigated.
- Small molecule modulators of Rig-I also under investigation.
- **IP status:** Patent pending US 14-776,463.
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Mx1 mice were inoculated intravenously with 25ug SLR10/PEI or untreated 16h prior to intranasal challenge with 108 pfu of Influenza A (A/PR8). Mice were weighed daily following infection. Infection dose was sub-lethal.