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.
- **Innovators:**
  Anna Pyle, Ph.D.,
  Akiko Iwasaki, Ph.D.

![Weight loss graph](image)

Mx1 mice were inoculated intravenously with 25μg 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.

**PI:** Anna Pyle

**Licensing Contact:** John Puziss

john.puziss@yale.edu