



## Non-Confidential Technology Disclosure

**Title:** Methods and compositions for controlling efficacy and specificity of RNA silencing

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**Description:** This invention describes siRNA strand design rules and compositions to enhance the efficiency and specificity of RNAi. Dr. Zamore et al. have found that small variations in siRNA sequences have profound and predictable effects on strand entry into the RNA-induced silencing complex (RISC), thereby enabling the design of specific imperfections in silencing RNAs that enhance targeting and cleavage. RNAi agents designed with these rules also reduces or eliminates undesired silencing of non-target genes.

**Application:** Methodologies and reagents included within this invention may be used for:

- Enhancing the efficacy and specificity of RNAi
- Decreasing silencing of inadvertent target genes
- Novel therapeutics and gene therapy
- Improving upon basic research applications of RNAi
- Research reagents such as siRNAs, shRNAs, vectors and transgenes.

**Advantage:** This invention provides the specific design of RNAi agents which provide better targeting and cleavage of target genes to allow for more control in mediating gene silencing.

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**Licensing Status:** Research Reagent Field Available to License

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