

# Delivery of small interfering RNA. A review and an example of application to a junction oncogene

Anne-Laure Ramon, Jean-Rémi Bertrand, and Claude Malvy

CNRS UMR 8121, Université Paris-Sud, Institut Gustave Roussy, Villejuif, France

---

## ABSTRACT

---

RNA interference strategies using small interfering RNA is one of the most important discoveries in biology in recent years. This technology alongside antisense oligonucleotides is very promising and our group has focused its work on the targeting of junction oncogenes with these molecules. We have taken, as first example, papillary thyroid carcinoma. But there is a great need in delivery methods for these molecules in the treatment of cancers. Indeed, many studies have shown that small interfering RNA and antisense oligonucleotides are made efficient by various innovative delivery methods and, under these conditions, offer a powerful new therapeutic tool in cancer treatment.

---

**Key words:** *siRNA, oligonucleotides, vectorization, RET/PTC.*

*Acknowledgments:* We thank the European STREP Prothets and the Budget Qualité Recherches from Université Paris-Sud for their support. AL Ramon internship is supported by Gustave Roussy Institute.

*Correspondence to:* Claude Malvy, CNRS UMR 8121, Université Paris-Sud. Institut Gustave Roussy, 39 rue Camille Desmoulins 94805 Villejuif, France. Tel 33 142115402; fax 33 142115245; e-mail [cmalvy@igr.fr](mailto:cmalvy@igr.fr)