## RNA therapeutic, pendekatan baru dalam terapi gen

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## Abstrak

Some diseases, such as cancer, hereditary and genetic diseases, as well as viral infectious diseases, have been treated unsatisfied by the conventional therapy so far, and even more, by the gene therapy. Together sixth the pharmaceutical industries, researchers put their best effort to hunt some molecules that can be mow favorable for such kind of therapy. After a pivotal study reported in May, 2001, it is certain that Ribonucleic acid (RNA) could effectively silence gene expression in mammalian cell line, SQ it was then proposed in 2004 the term RNA therapeutics. Antisense RNA therapy which came into the atage earlier seemed to be the one that can answer all the problems in knocking out the unwanted messenger in gate expression. RNA interference (RNAi) concept, which came later us around 2QOQ, began to look like a possible contender. It was reported some studies that RNAi seem to have some more advantages over hath stronger genesilencing effects and greater ease of use. However, the main obstacle of all kind of gene therapy is, undoubtedly, on the delivery of this molecule to enter the target eel!, and mostly to where it is needed most inside the body. Some studies on genetic Material delivery system have been reported, and their progress has been discussed.