

République Algérienne Démocratique et Populaire
Ministère de l'Enseignement Supérieur et de la Recherche

Département de Biologie Physico-Chimique, Faculté des sciences de la nature et de la vie
Université A. Mira de Bejaia

Cours

Biologie Cellulaire et Moléculaire

Master I: Génétique Fondamentale et
Appliquée

Dr. CHERAFT-BAHLOUL Nassima

Laboratoire de Biochimie Appliquée

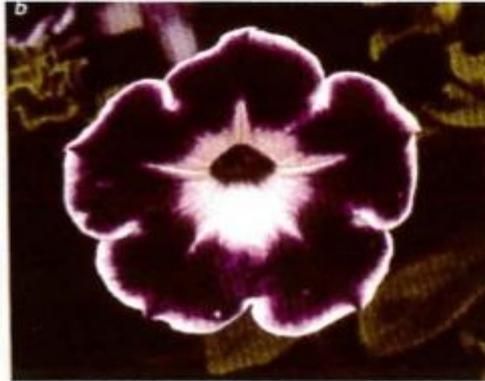
Année: 2022/2023

ARN Interfèrent

Historique et découverte de l'interférence ARN



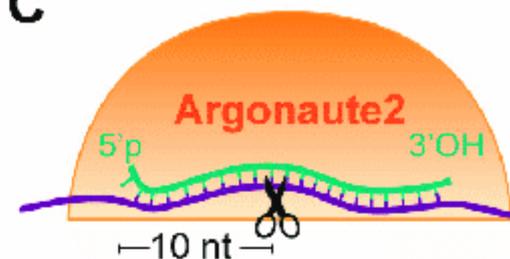
Fleur sauvage



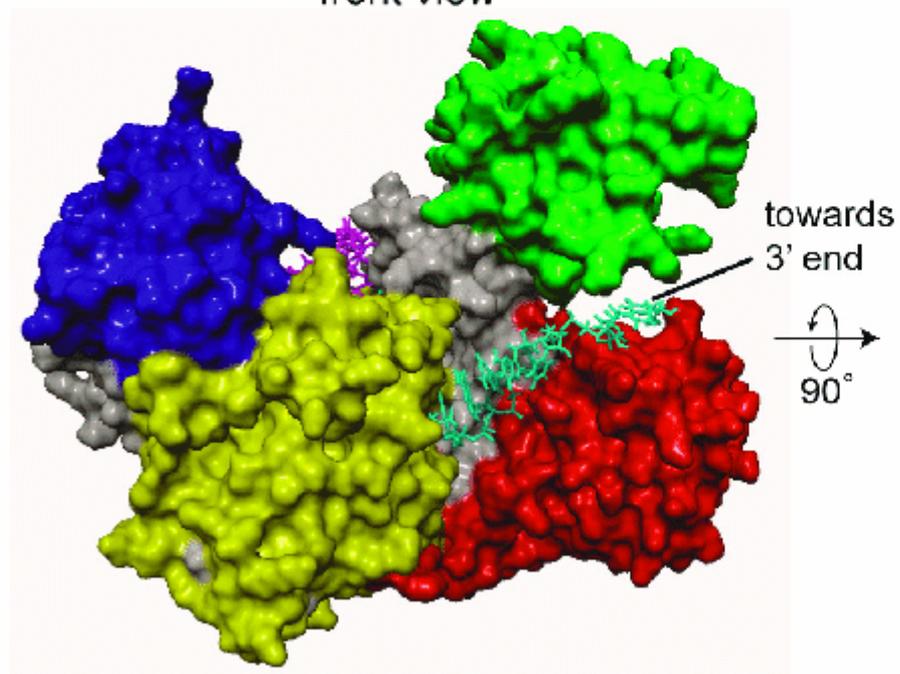
*Fleur obtenue après
introduction du transgène*



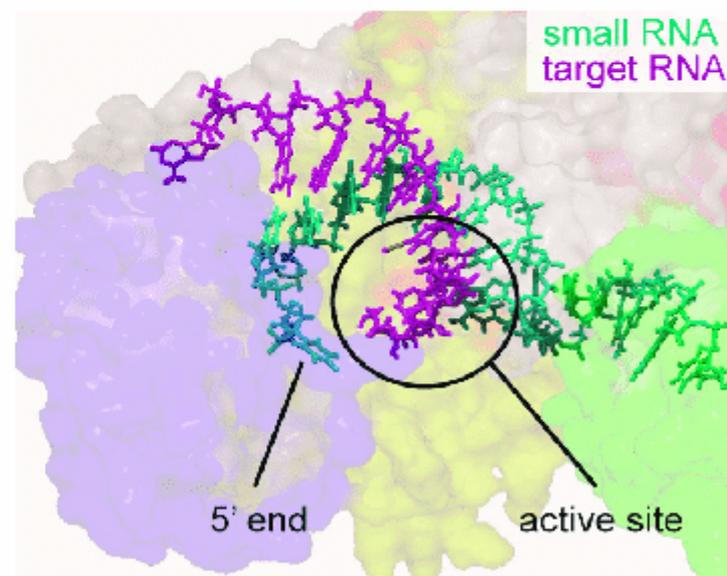
*Fleur obtenue après
introduction du transgène*

A**C****B**

front view



top view

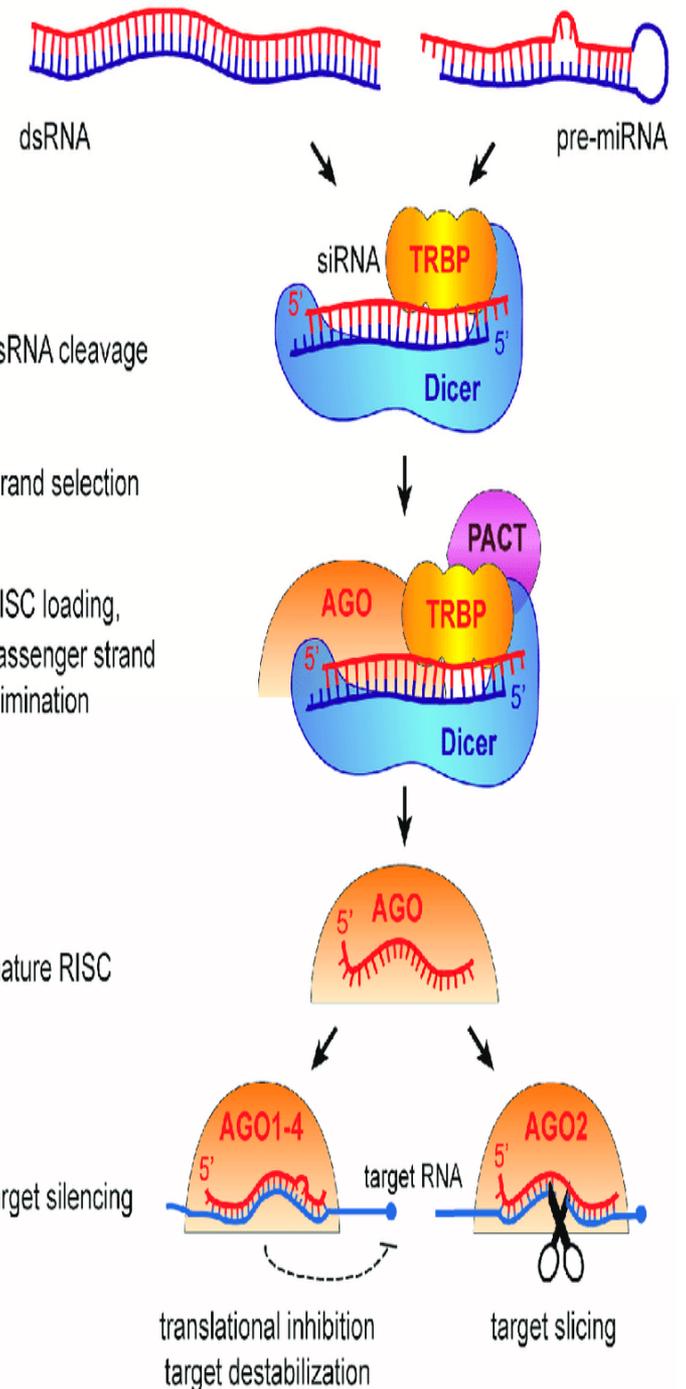
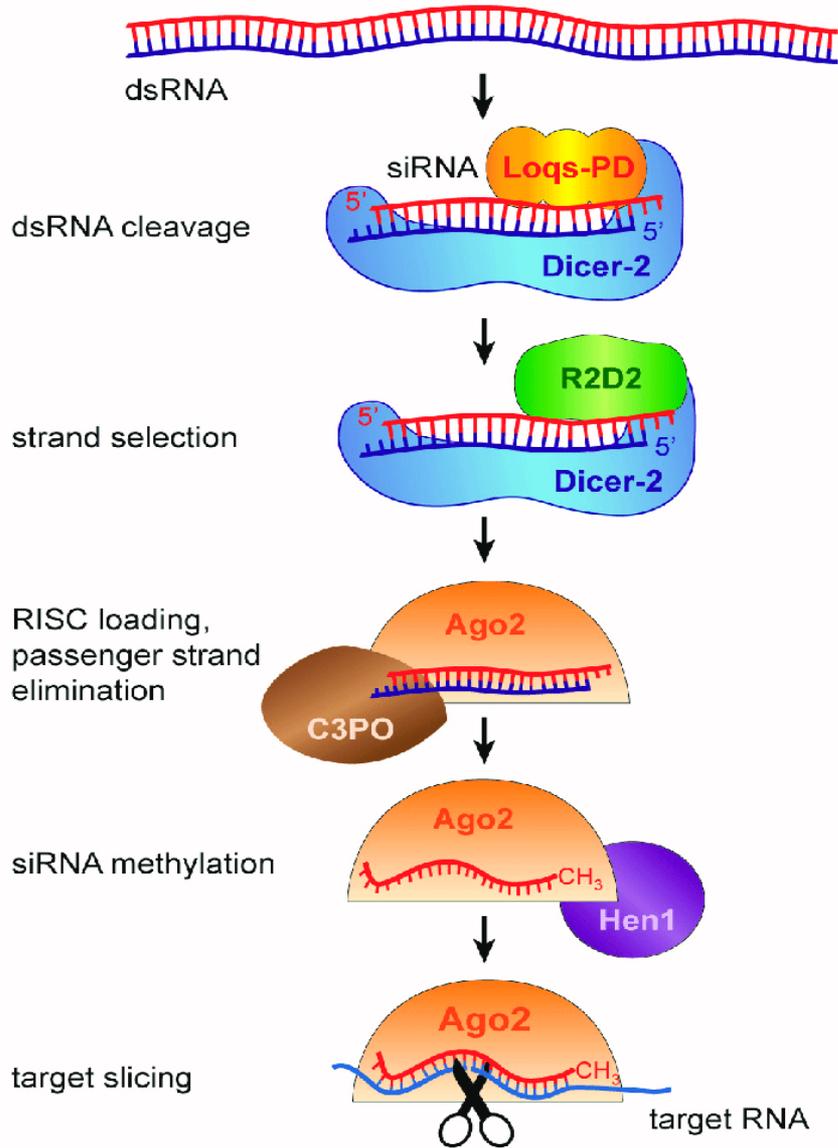


endogenous siRNA sources

- structured RNA
- convergent transcripts
- gene/pseudogene pairs
- transposable elements

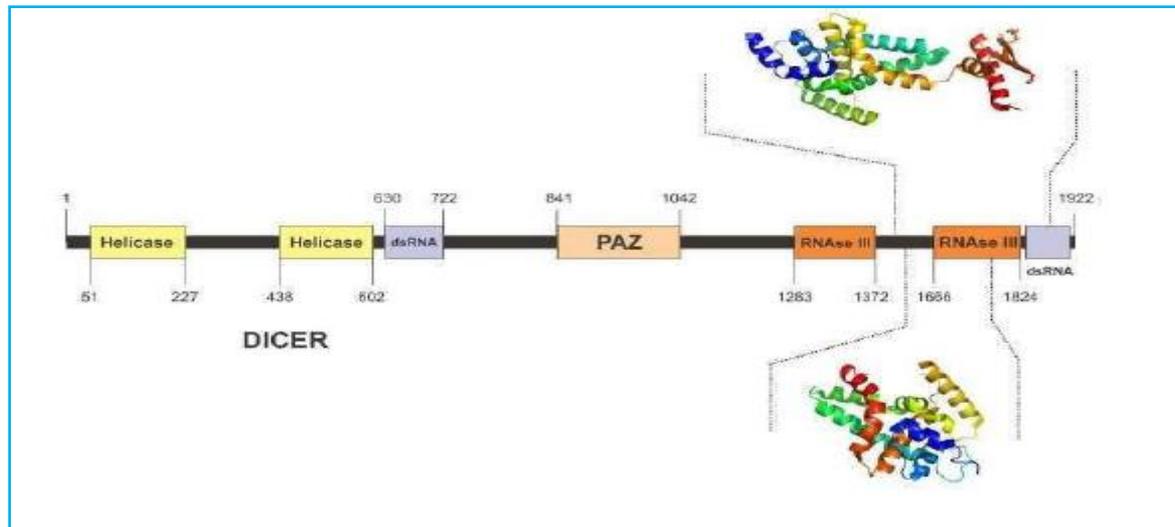
viral siRNA sources

- viral dsRNA genomes
- replication intermediates
- structured RNA
- convergent transcripts



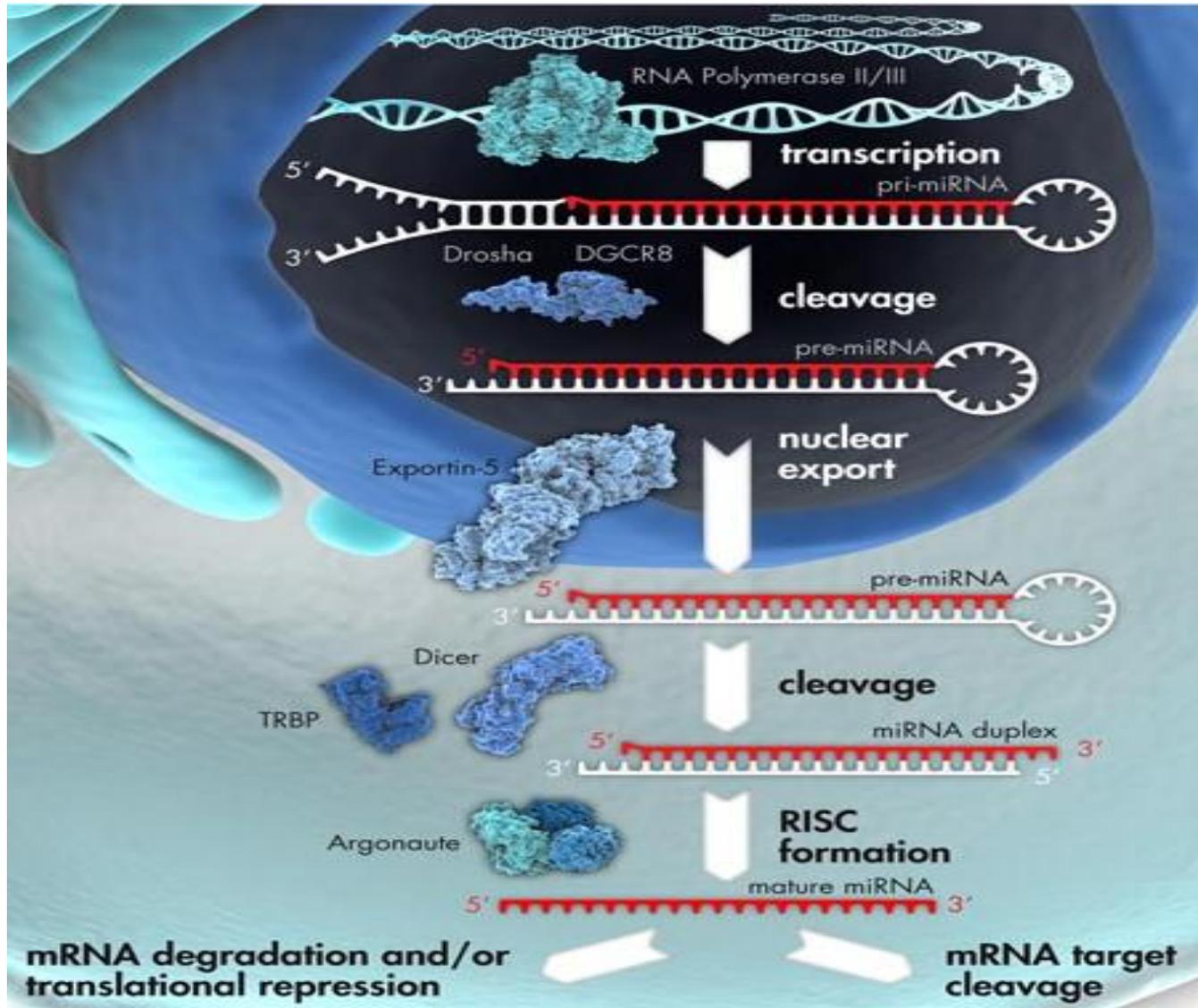
ARN interférent

Formation du Complexe Dicer-TRBP

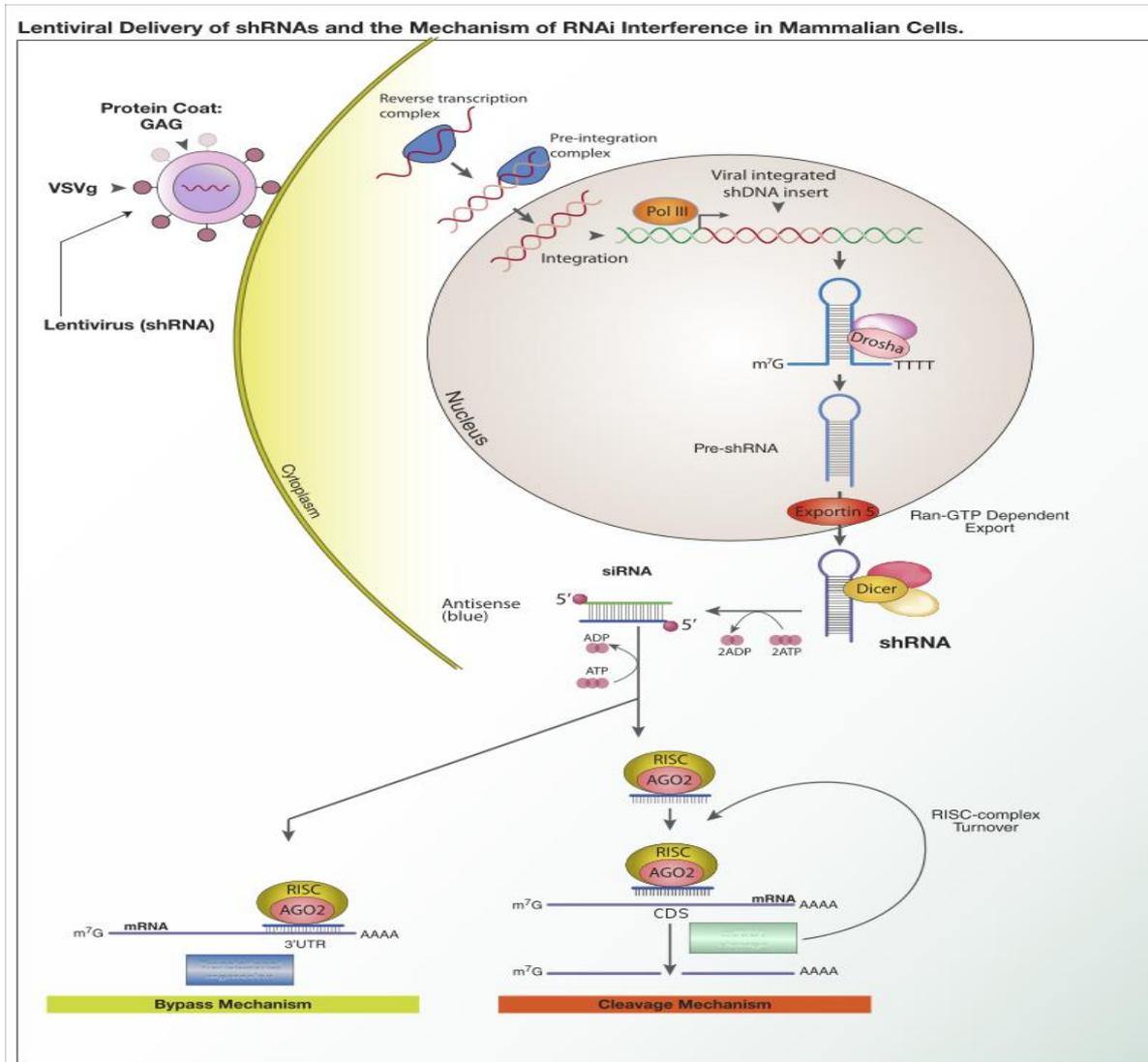


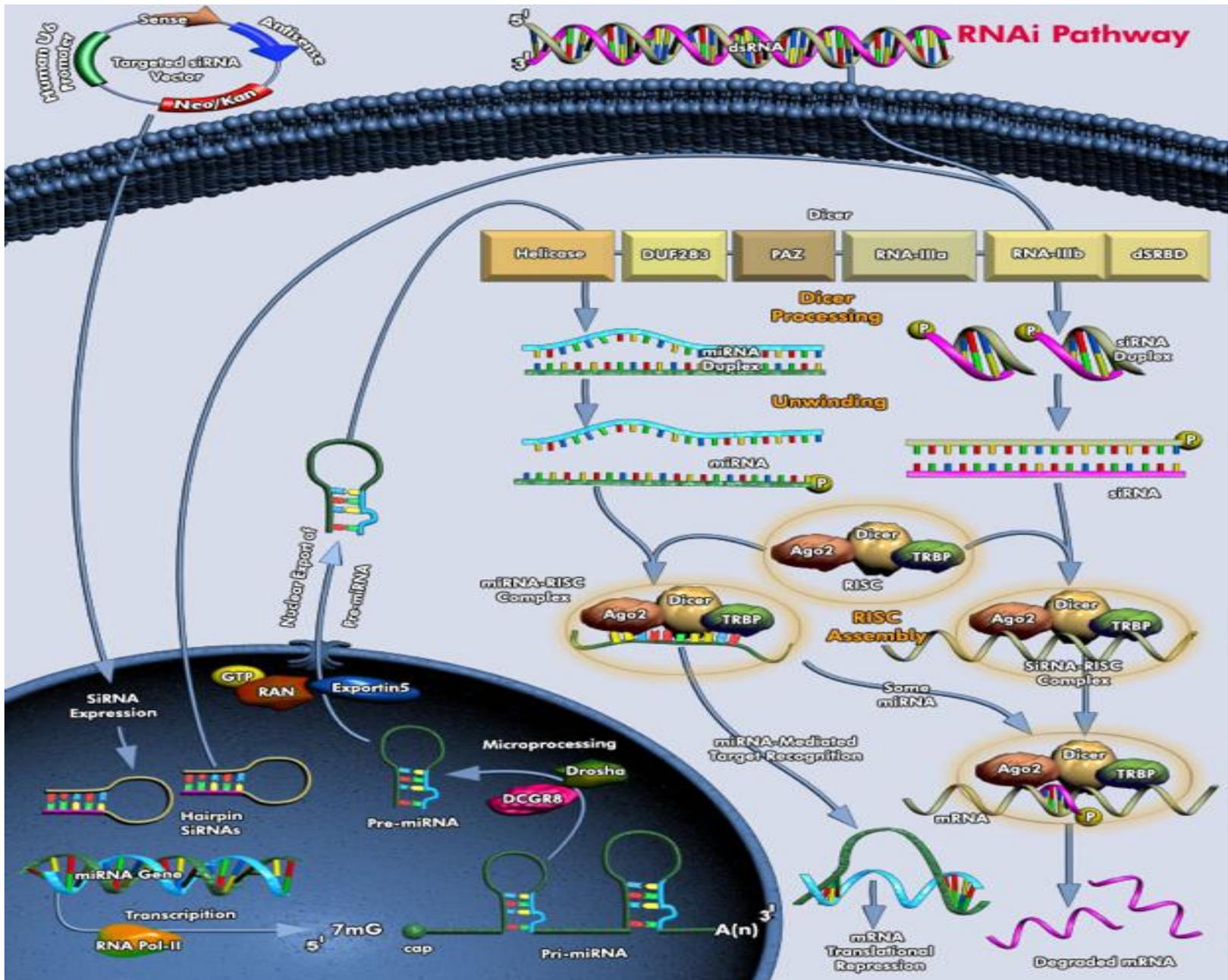
Structure de Dicer

ARN interférent



ARN interférent





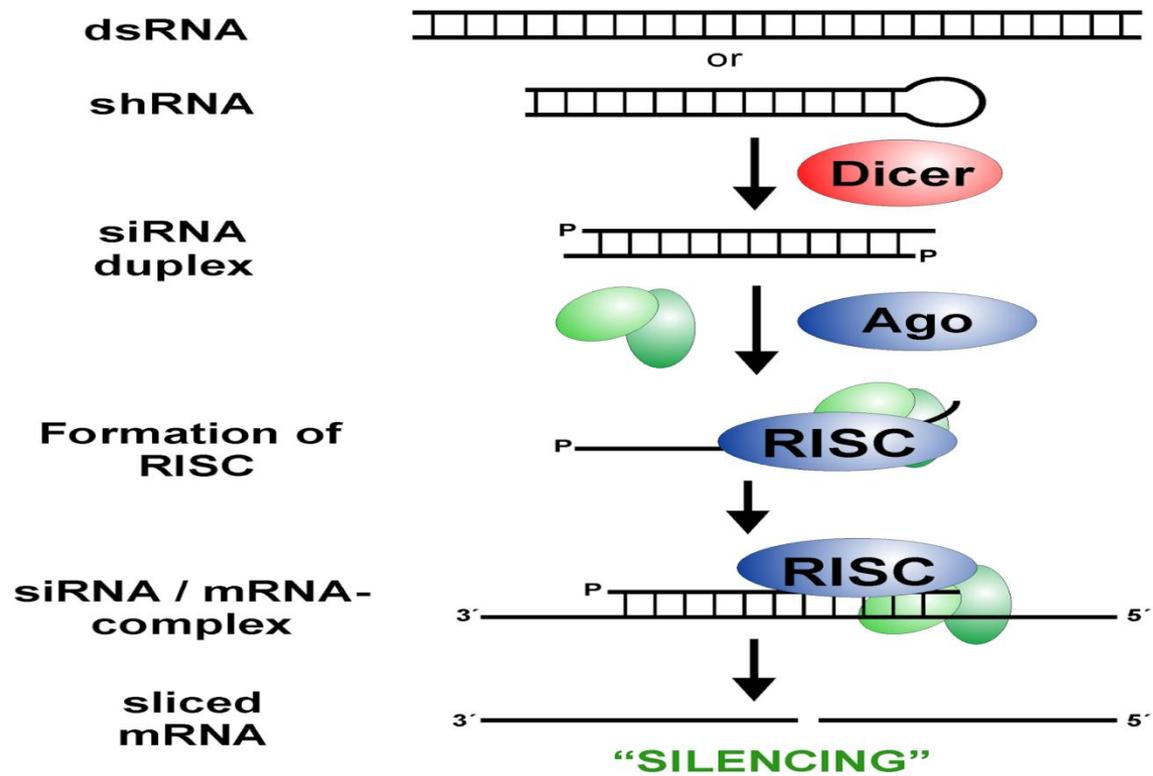


Figure: Mécanisme d'action des Si ARNs

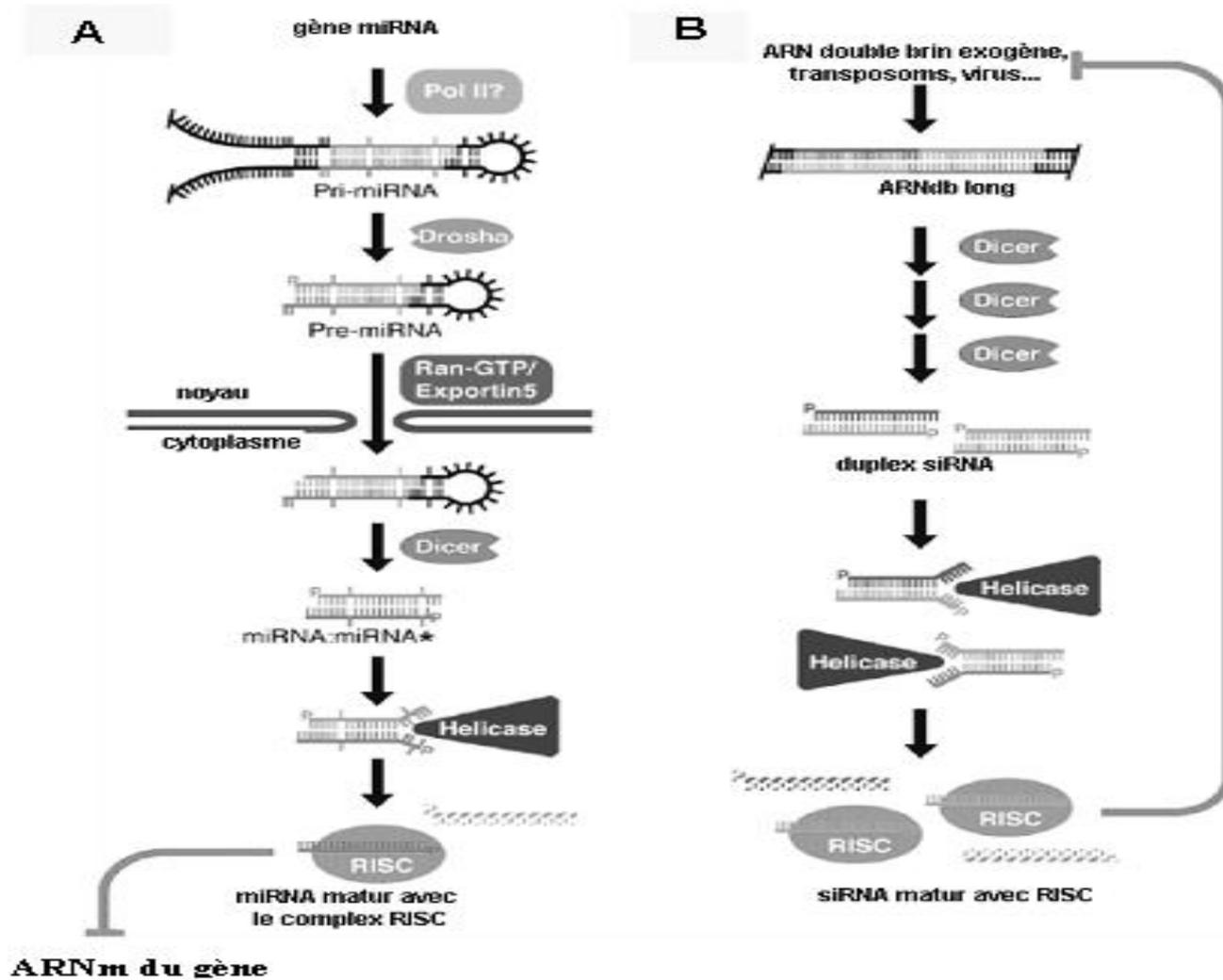


Figure: Mécanisme d'action des si ARNs et mi ARNs

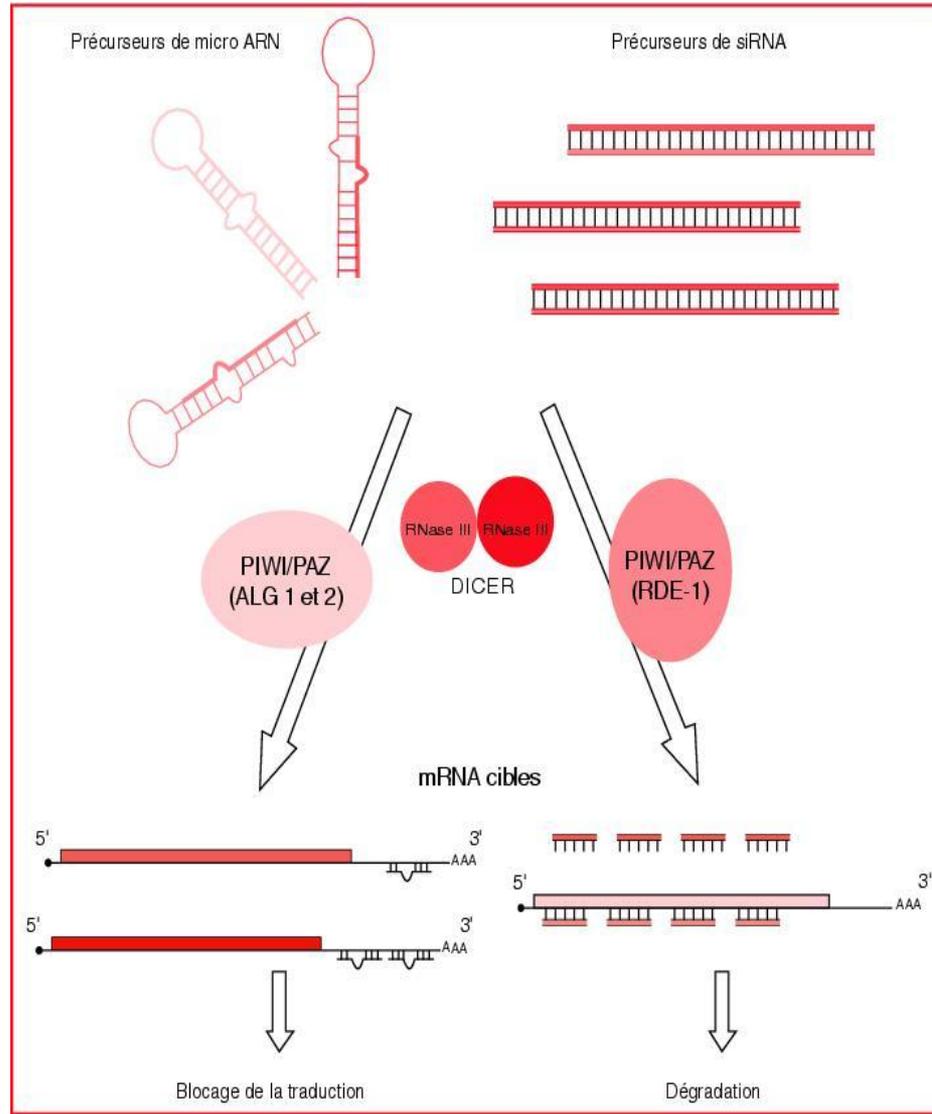


Figure: Mécanisme d'action des si ARNs et mi ARNs