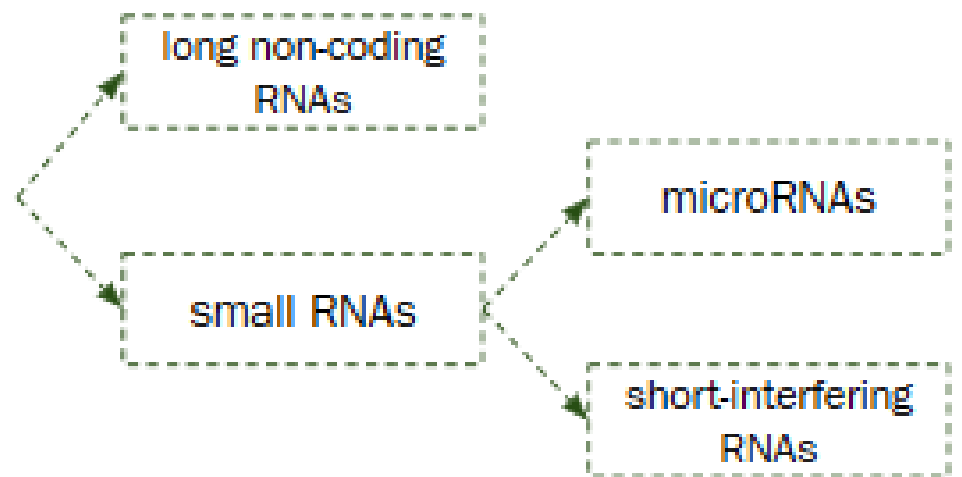


RNA interference tools for crop improvement

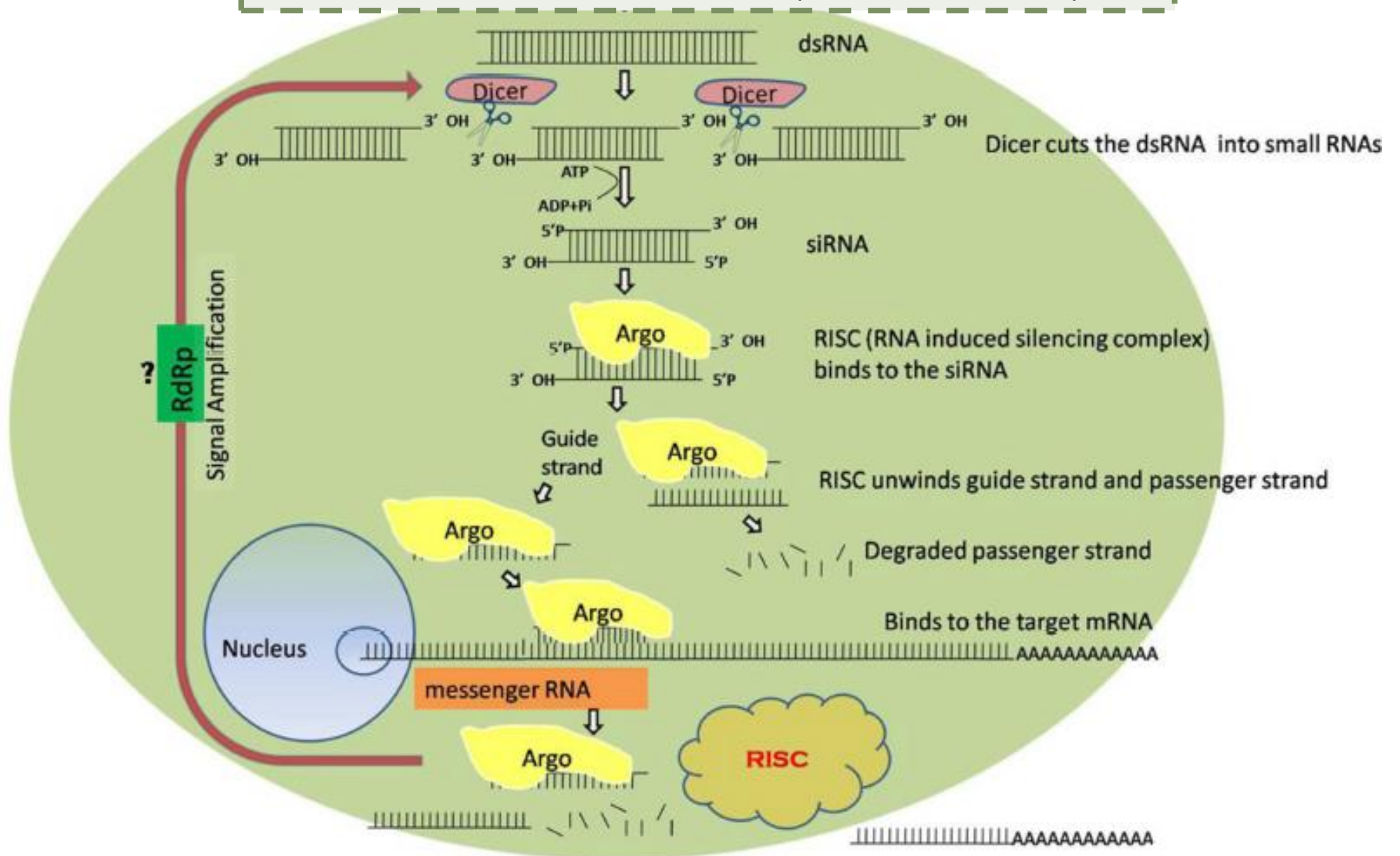
Objectives

- ❖ To acquire knowledge about the basis of the RNA interference and its classification.
- ❖ To have knowledge about the potential RNA interference applications related with food technology, specifically, insect resistance and Flavr Savr.
- ❖ To know of social opinion on genetically modified foods.

Classification



RNA interference mechanics (V.Sudhakara et al, 2015)



Benefits vs disadvantages

- Efficient, user friendly, high-throughput, stable, flexible, better than antisense.
- Off-targeting.

Anna Lorente Sebastián
June 2017

Conclusions

- ❖ RNAi is a post-transcriptional phenomenon to regulate genes present in plants and mammals.
- ❖ There are many applications of RNAi but at laboratory level. However, there is the possibility to extrapolate to commercial level.
- ❖ Due to the benefits, RNAi could be a good alternative to solve the chemical insecticides resistance.
- ❖ The society is scared about genetically modified organisms due to a lack of awareness.