

RNA World

mRNA



* Bio molecular / Factory:
Condensate / Storage:

decapping

200 n.t. \Rightarrow 25 n.t.

5' \rightarrow 3' degradation

3' \rightarrow 5' degradation



Translation (in ribosome)

from nucleolus

processing
P-Bodies

Stress granules

Argonaute Protein

mi RNA.
si RNA.
pi RNA

small - noncoding RNA

20 ~ 30 n.t.

RISC + RNA interference
(RNA induced silencing complex)

extensive base-pairing

≥ 7 n.t. (2 ~ 8) in 3' UTR

SLicing + Rapid degradation

(human miRNA)
less extensive

store in P-bodies

Long noncoding RNA (lnc-RNA)

ACTS { in cis.
in trans } to control transcription.