RNAS 28/01/2014 Thymine - 'CH3 + Unacil why does RNA have Unacity & DNA does not! cytosine == Unacil AM Lican undergo spontaneous deamination to wracil. --> changes in structure. Hence, genetic code changes. -> Répair systèm cannot différentiate between altered c'and preexesting U Double helical RNA! loop-y structures Wobble base pairs GiU base pair . -> weak bonding, because d (str. am) Lican be found only when most of the bps are joined -> not found in pure G-U strand,

3

Loops - Internal loop

Hairpin loop

protection against Degnadation by expludeaus promotion of translation.

1) mRNA lender standard & AVIA no stand AVIA ordina

## & Modifications

- 5' end (before transition) -> capping with (because it emerges first) -> transition) -> transition) -> capping with (because it emerges first) -> transition) -> capping with (because it emerges first) -> transition) -> capping with (because it emerges first) -> transition) -> capping with
- 3'end -> tailing with polyadenylate residues

  (nucleus)
- Splicing sumoval of interiors & joining of exons/
  (nucleus)
- Momenwise RNA ase shortens it, and it also helps shuffling proteins to pind to RNA cap tail before binds sibosome -> helps in translation.

## Riboswitch

bind small molecule ligand -> and regulate expression of downstream gene.

-> cis -> pant of the same molecule (mRNA)

helps in translational shutdown (quickfix, immediate effect on existing mRNA)

microRNA acts on RNA & prevents translations Inc RNA regulates gine expression as well as translation, can also mediate mrnA stabilist. mRNA stability.

RNA abe-P -> RNA @ acting as subenucleouse. D'end (betone brondité uniernous furtiern F (terit apromis f. sauesed)

ullemingine environt (useburg) B'end - tousing willing polyaderly bus & bus & privile de primier à anortair de Lorentere - privilez Ochoniuse RNA ase shortens it and it also helps shuttling proteins to bind to knapping 5 and besons the subsequent of the subsequents of t Volitaria ind small moberile ligard -> and suggester en de domination par procession que Avism) elipsedom some mobelelle (mer) Research established (quickles impacts