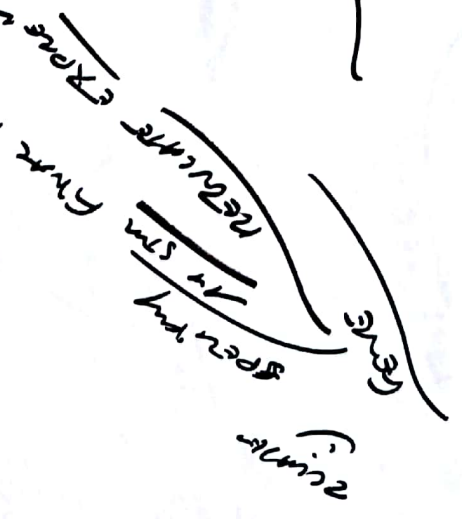
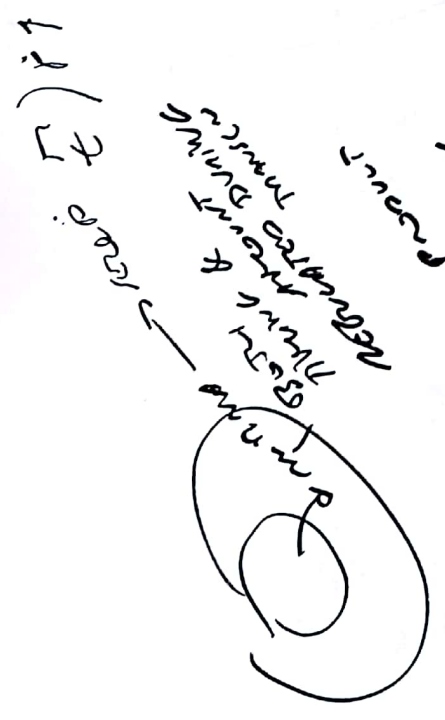
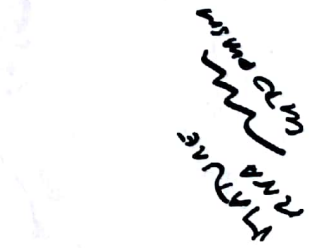
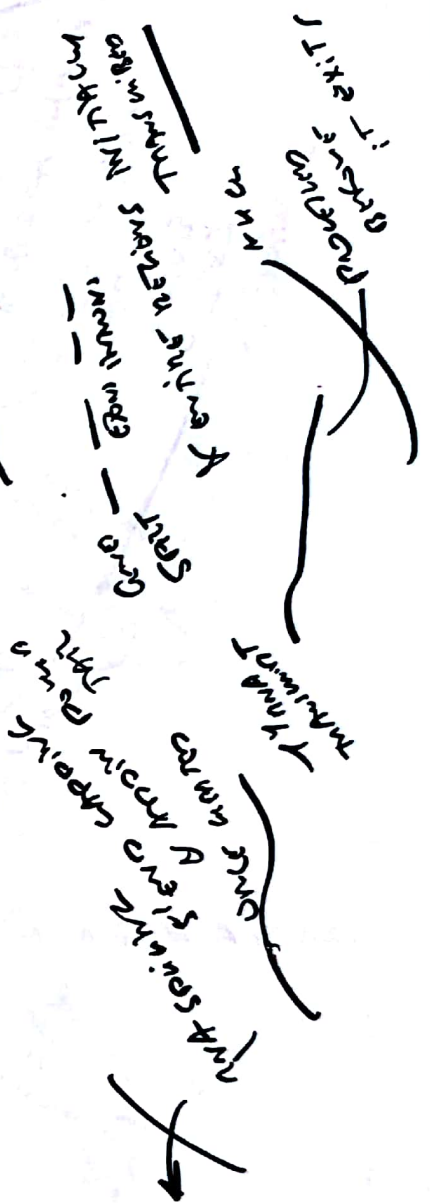
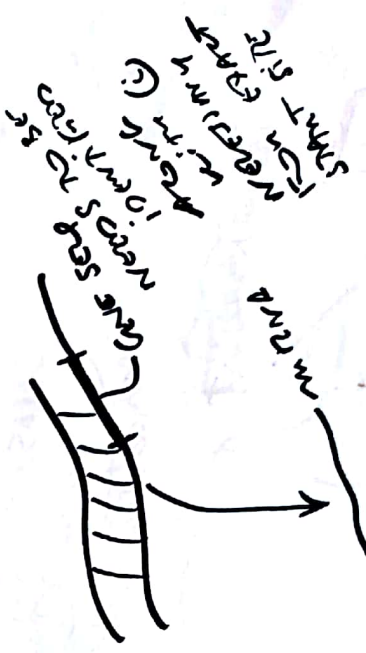
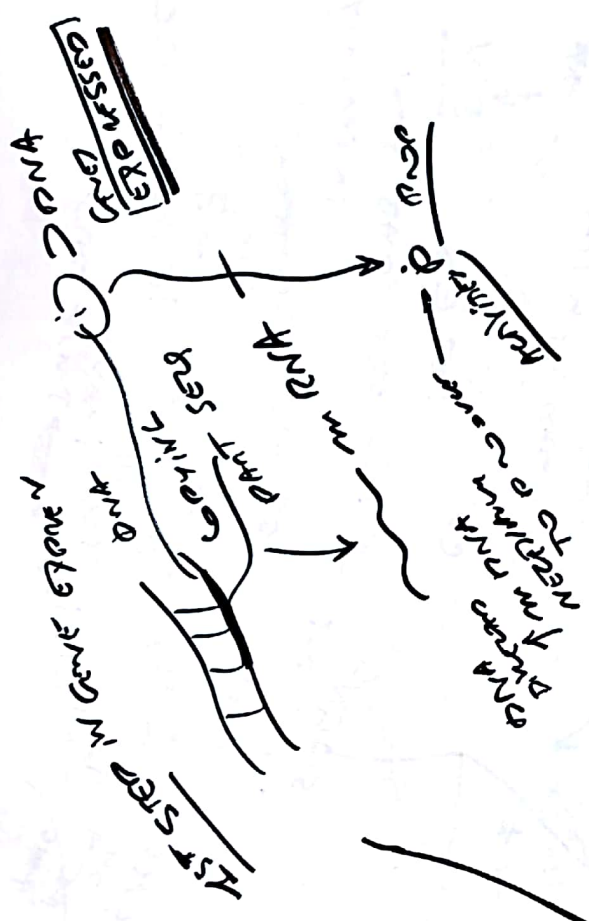
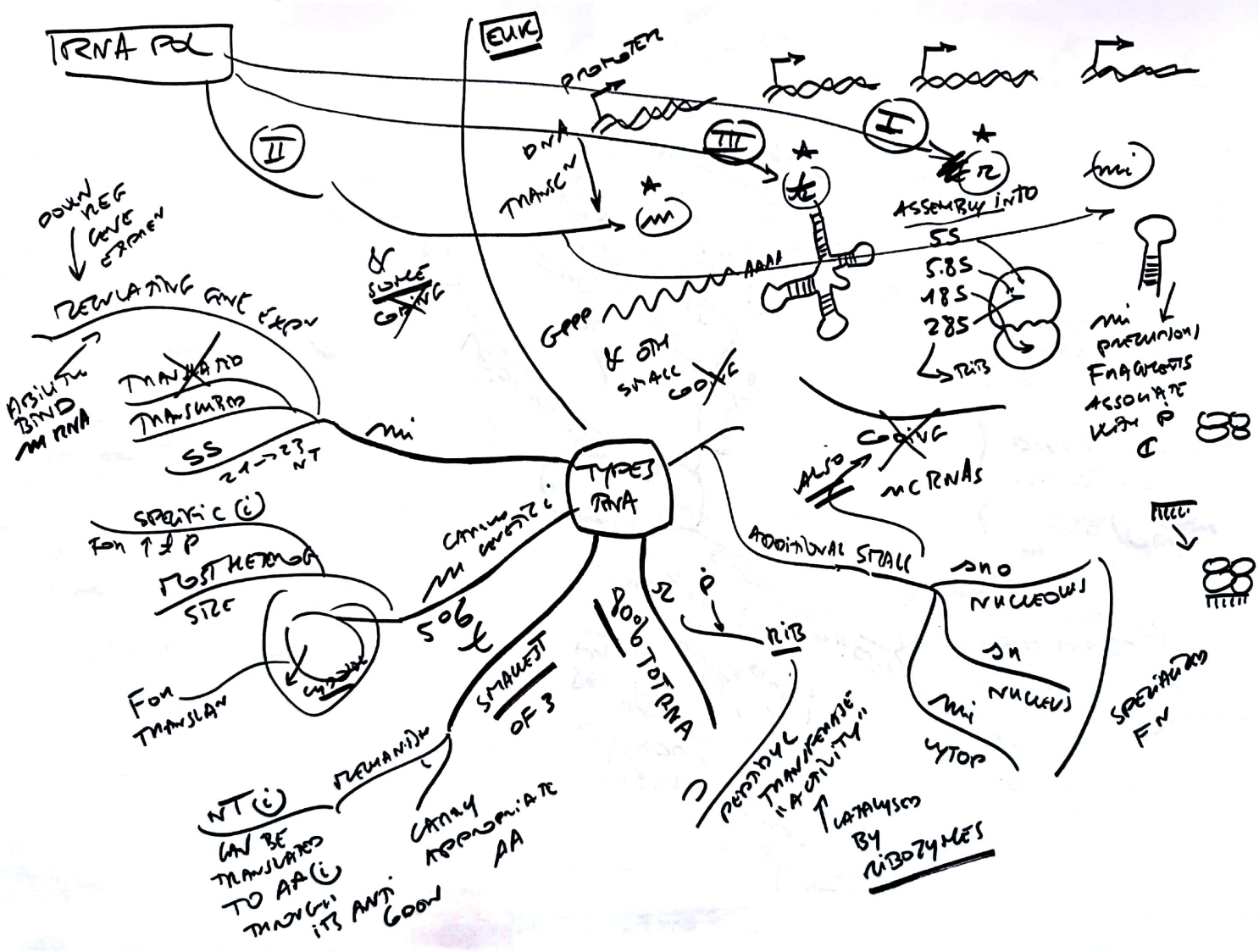
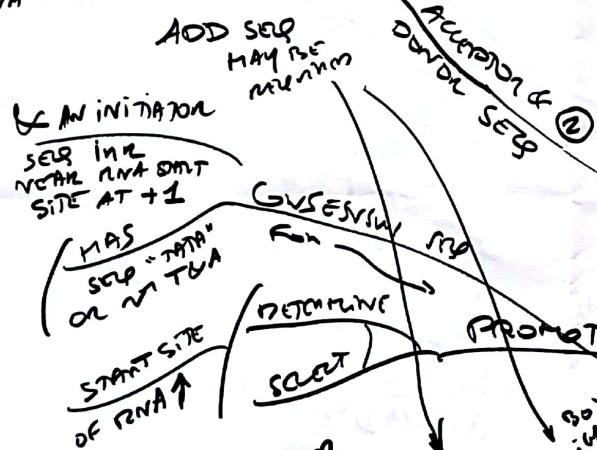
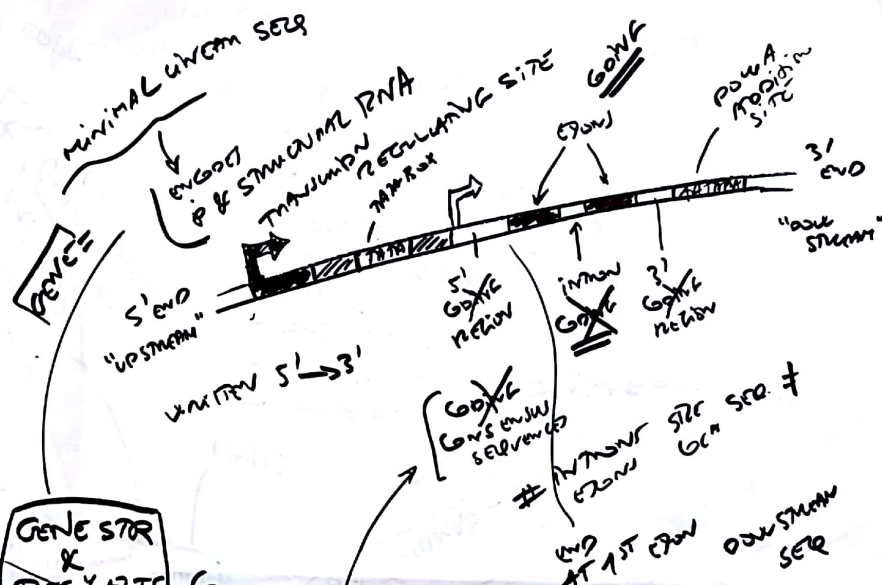
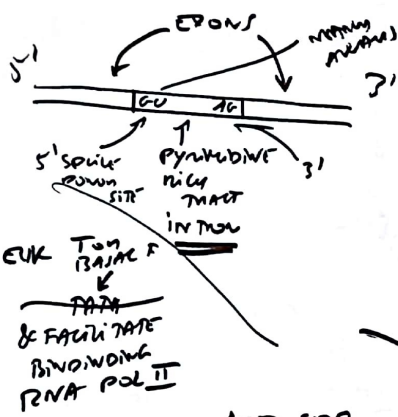


**Overview**

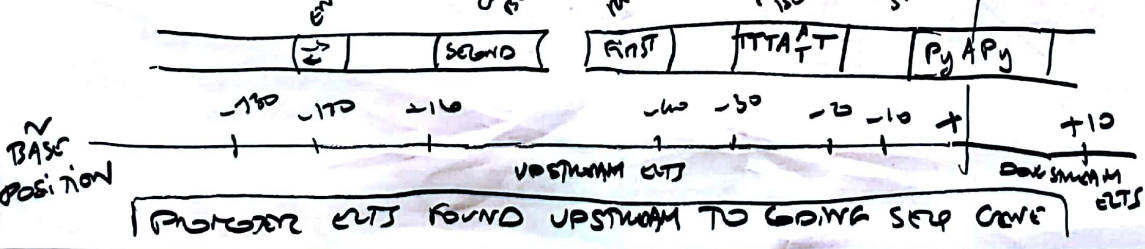




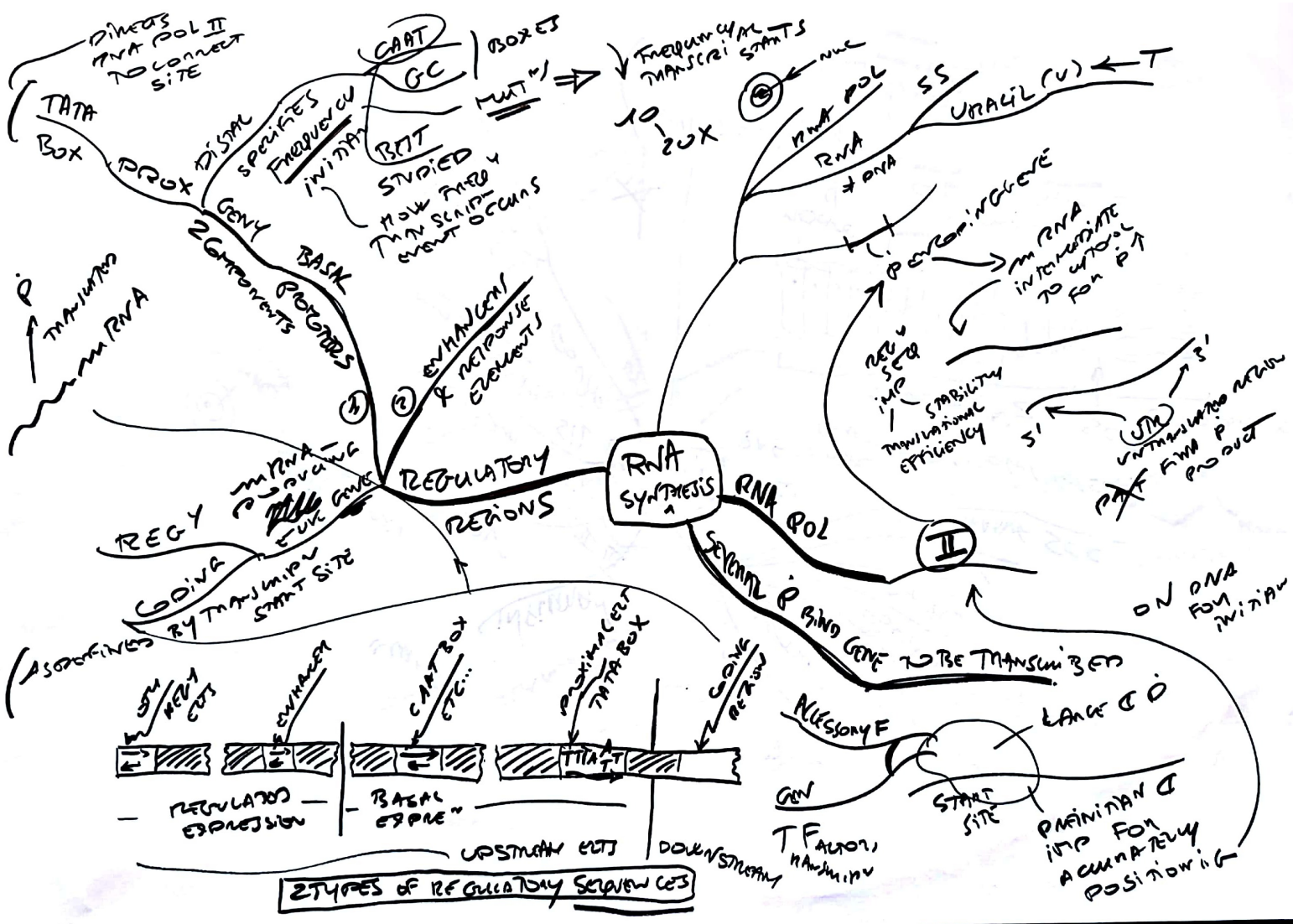


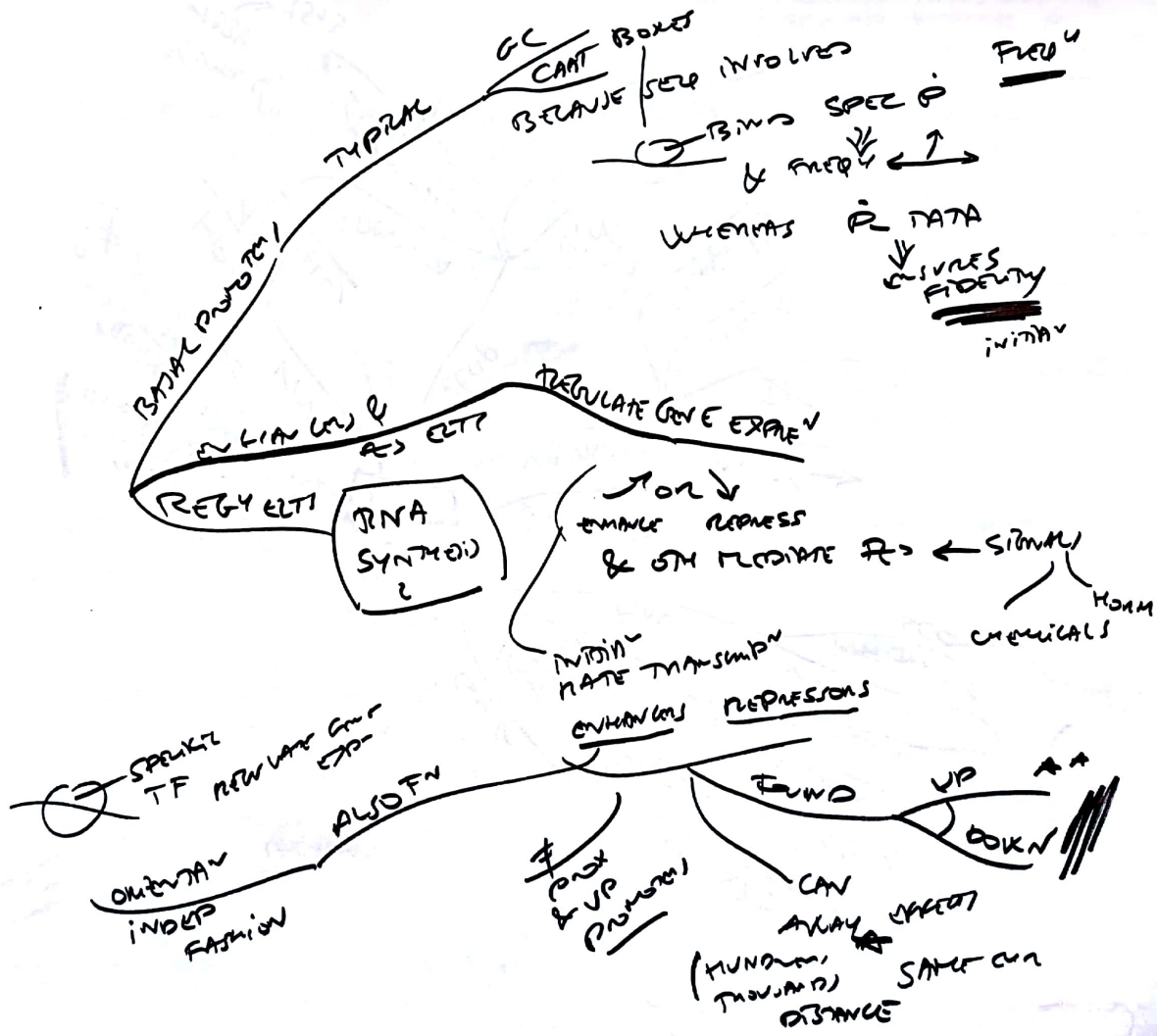


**GENE STR & REG. ELTS IN EUK P-CODING GENES**



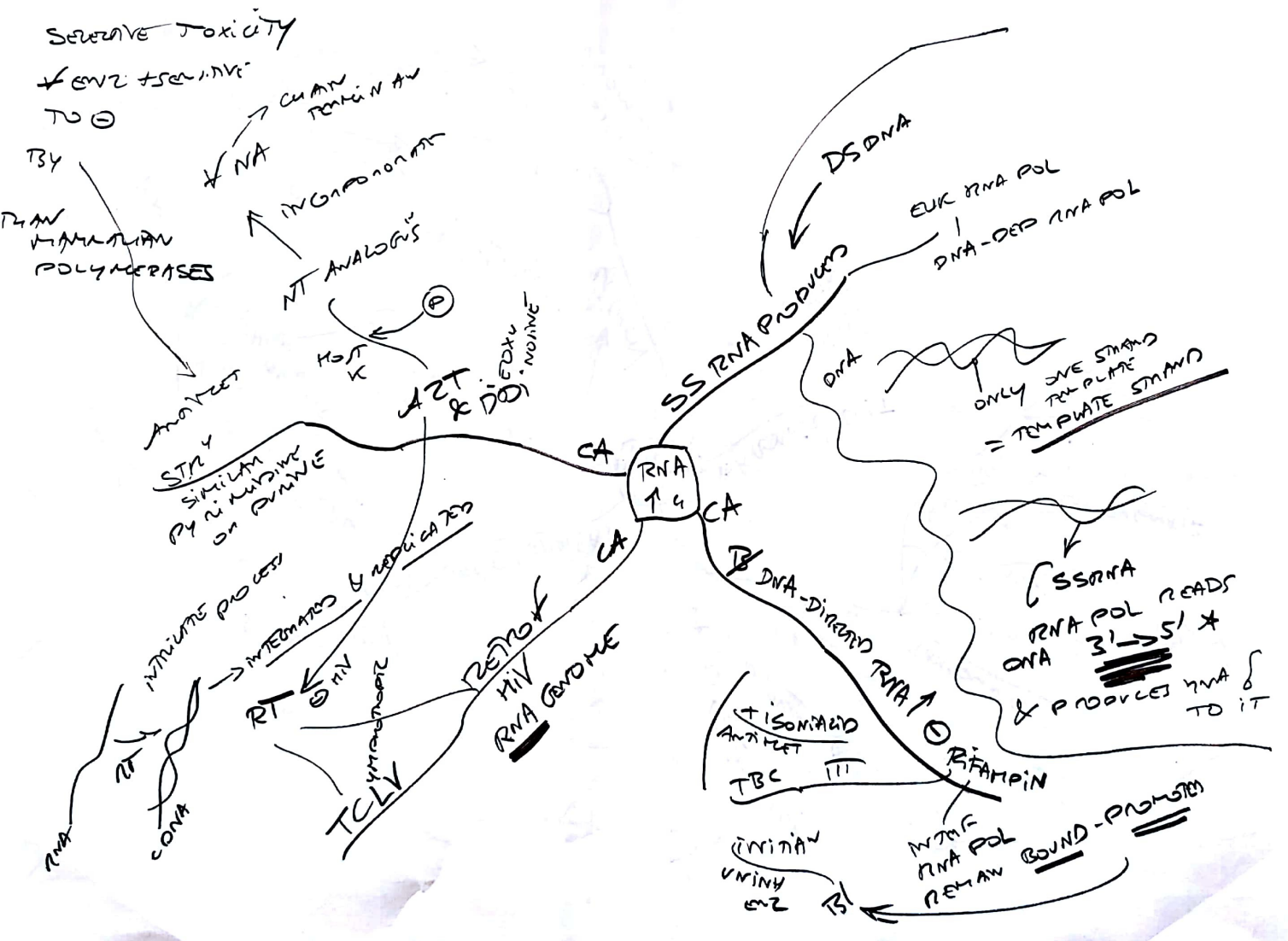
**EVOLUTIONARY CONSERVED**  
 "REGULATORY MARKERS"  
 "REGULATORY POT DNA REGULATORY SITE"  
 "USUALLY BOUND BY P TF"  
 "OR REG. P" (with a box around 'P')  
 "REG. PROM. SEQ"



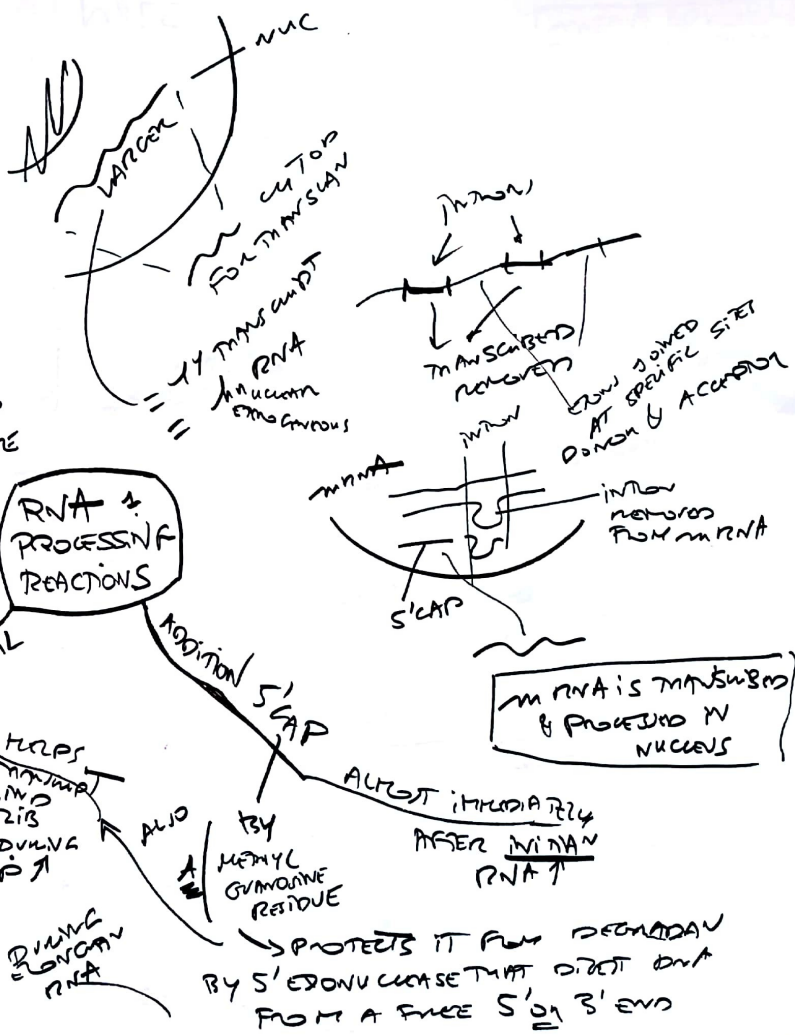
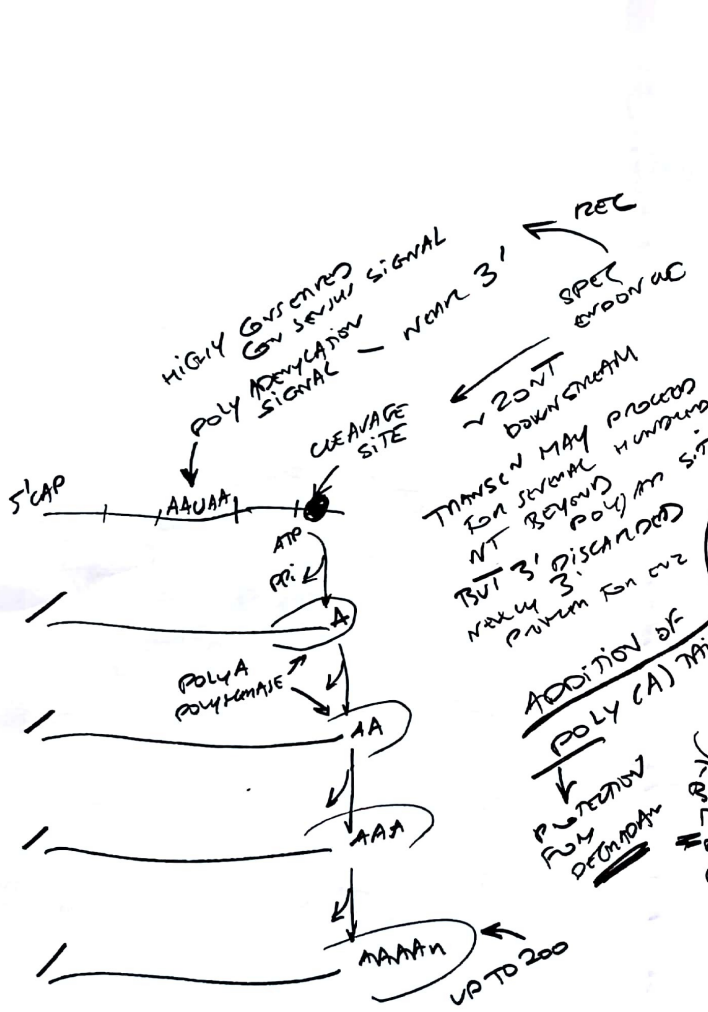












**RNA PROCESSING REACTIONS**

ADDITION OF POLY (A) TAIL

ADDITION 5' CAP

TRANSCRIBED & PROCESSED IN NUCLEUS

GTAT BEGINS INTRON ON AG END  
 ⇒ GSSP PRODUCT

↓ ABILITY RNA  
 G111111 SPICE  
 ↓ BUT DETRAPH B

SPICE ALTER  
 IT INTRON  
 E20N BOUNDARIES

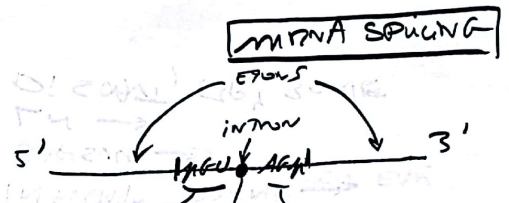
DONOR OR ACCEPTOR SITE  
 G111111 REGION

SPICE JUNC SEQ  
 DATA BOT  
 CAN OCCUR

POINT MUT  
 MUTATIONS IN SPICING SIGNALS  
 ⇒ HUM DISEASE

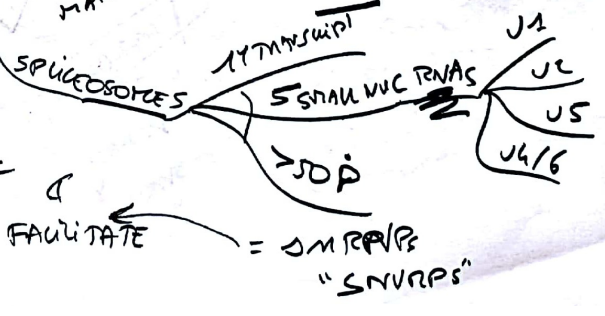
RNA PROCESSING REACTIONS 2

SPICEOSOME  
 SMALL NUCLEOLAR RIBONUCLEOPROTEIN PARTICLES  
 COMPOSED WITH SMALL RNA



BRANCH SITE A  
 A PIVOTS  
 5' SPICE SITE  
 EXUSING INTO FORM "LAMP"

SPICED EXONS FROM MATURE mRNA



POSITIONING RNA FOR REC  
 SPICING REACN FACILITATE  
 = SDRP/S "SNURPS"

