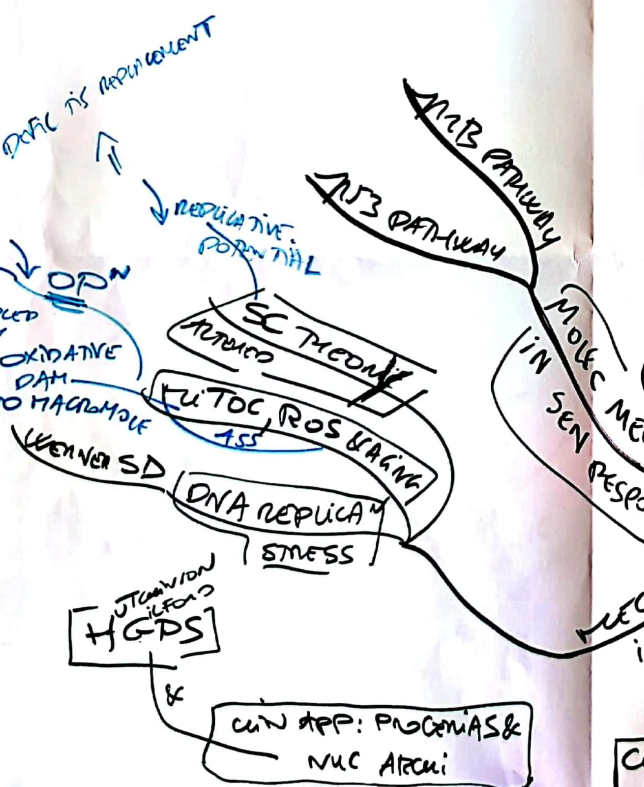


POST ENUC & DIVIDE DURING LIFESPAN  
 • REPLICATIVE SEN = PERMANENT HALT ABILITY TO PROLIFERATE

OVERVIEW  
 # of COMPETED  
 SENESCENCE INDUCERS  
 • SEN & VIABLE BUT WILL NOT ENTER ACTIVE PHASE UNDER ANY COND IN  
 • SEN → EXPLEN → INH ON ↑ 16 / ↑ 21

ENTERING INTO  
 FAILURE TO BECOME SENESECENT  
 SENESECENT PHENOTYPE  
 INEVITABLE → ARREST  
 UNIQUE SIGNATURE  
 CHROMATIN MODIFICATION: REMODELING  
 H1STONES  
 DEATHYMAN  
 SA PRODN ARREST  
 NAD-DEP DEACETYLASE  
 ACTIVITY ⇒ PROTECT AGE ←  
 SAHFOCI  
 & PHO1D FN

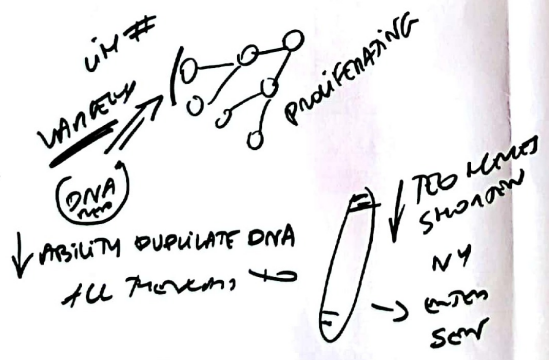
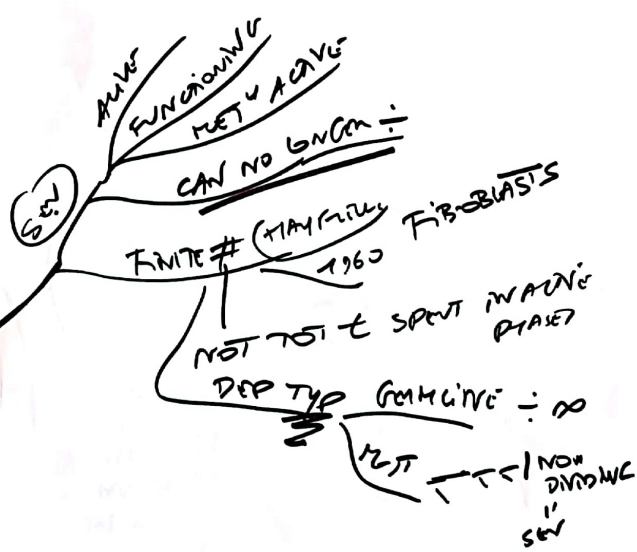
Can APP: CHROME RESTRICTION, A GWA



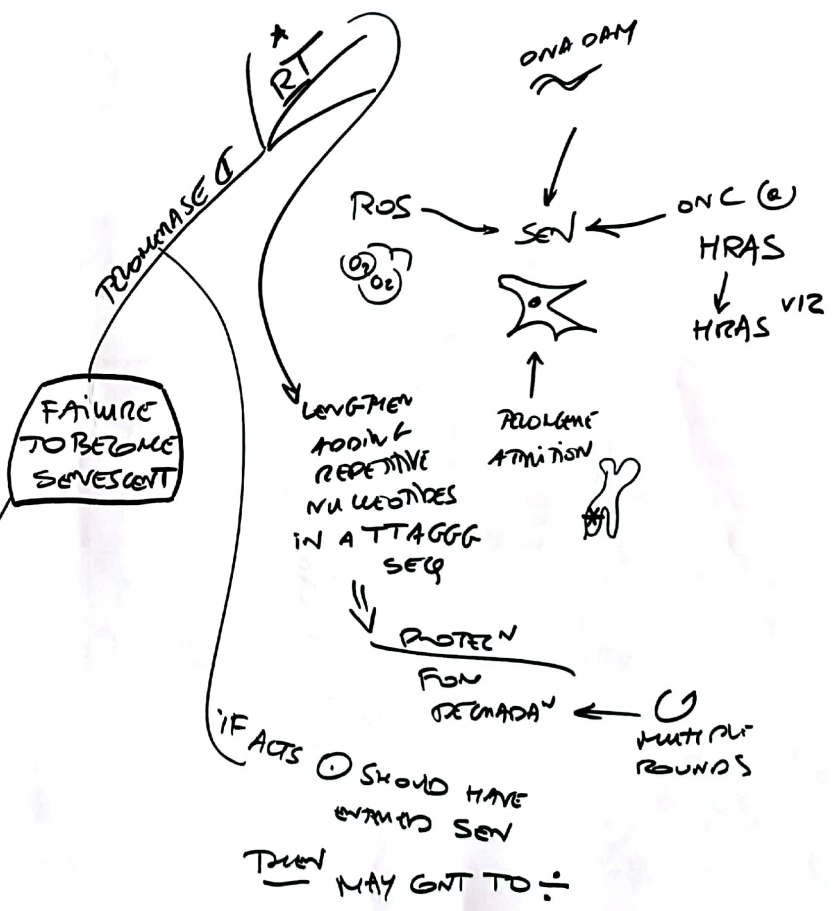
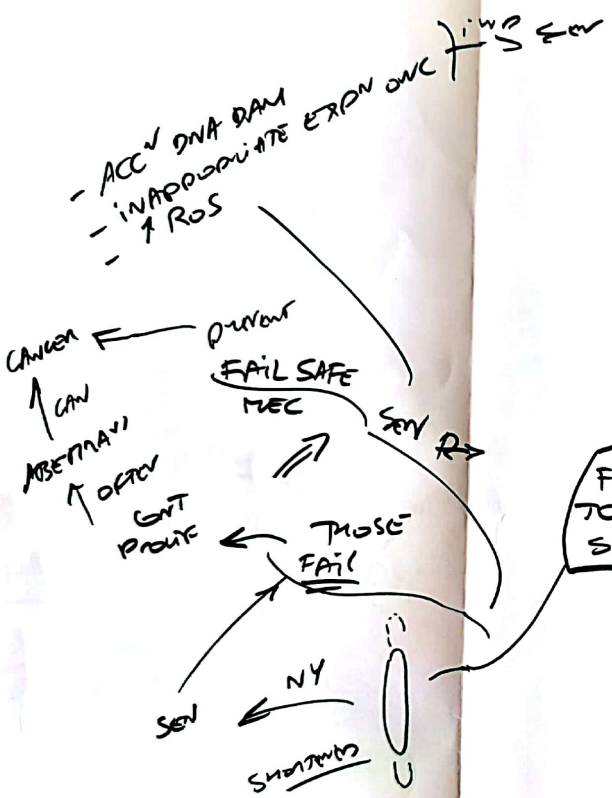
Can APP: PROGERIA & NUC ATCHI



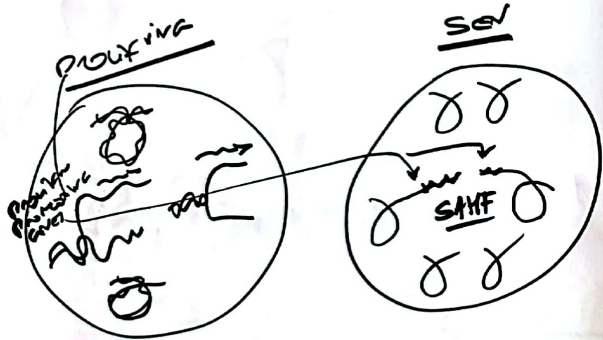
ENTERING INTO SENEESCENCE



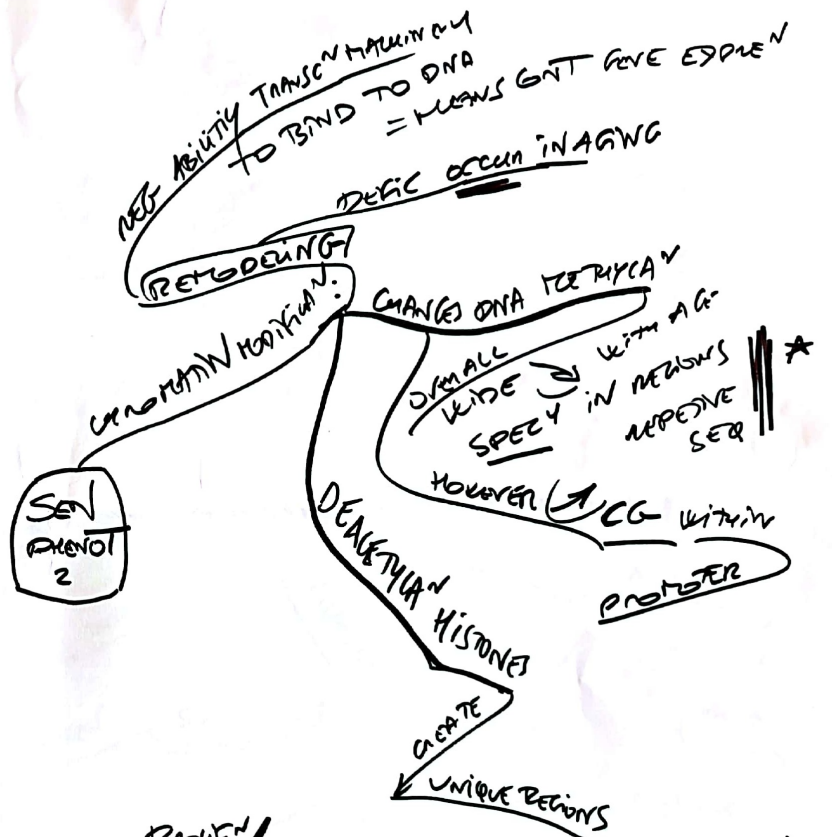
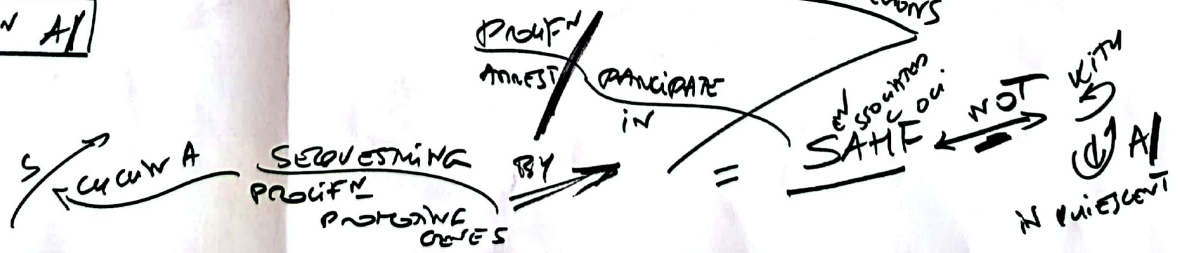
SEN INDUCERS







Sen-Associated Protein A



NEE ABILITY TRANSCRIBING TO BIND TO DNA = MEANS GNT GENE EXPRESN  
 DEFIC OCCUR IN AGING

REPRODUCTION

CHROMATIN MODIFICATION

Sen  
 PROTOT  
 2

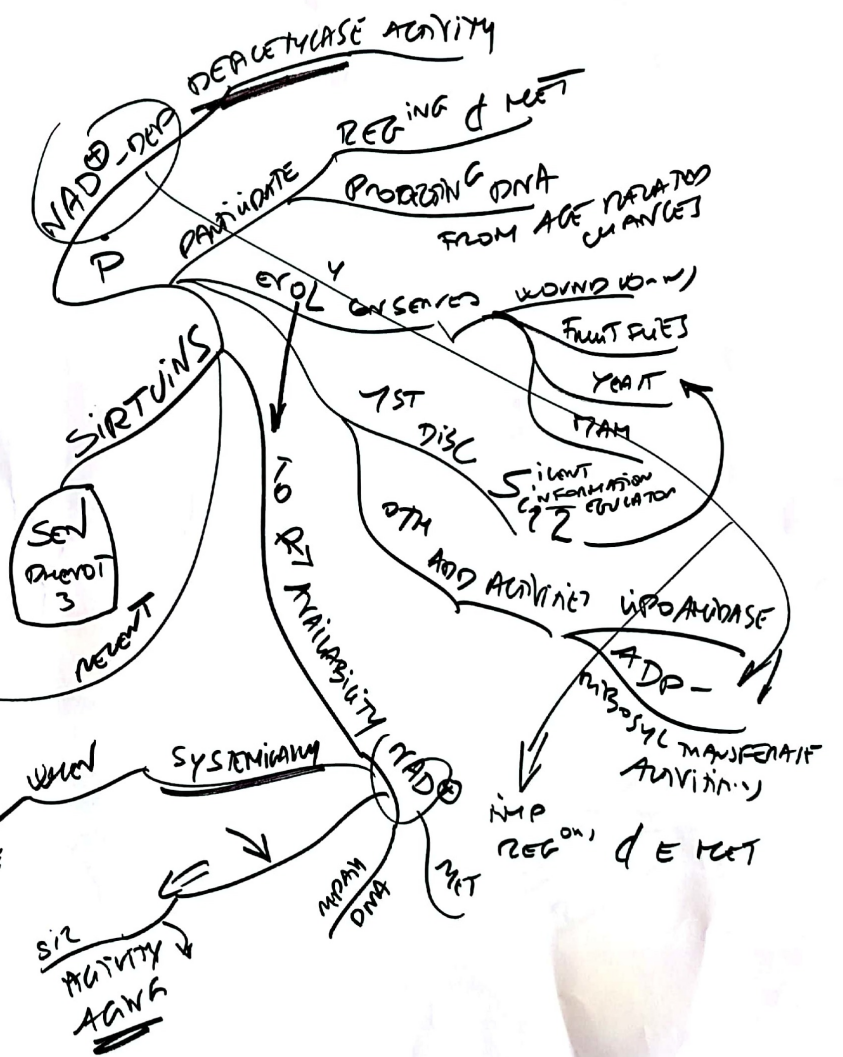
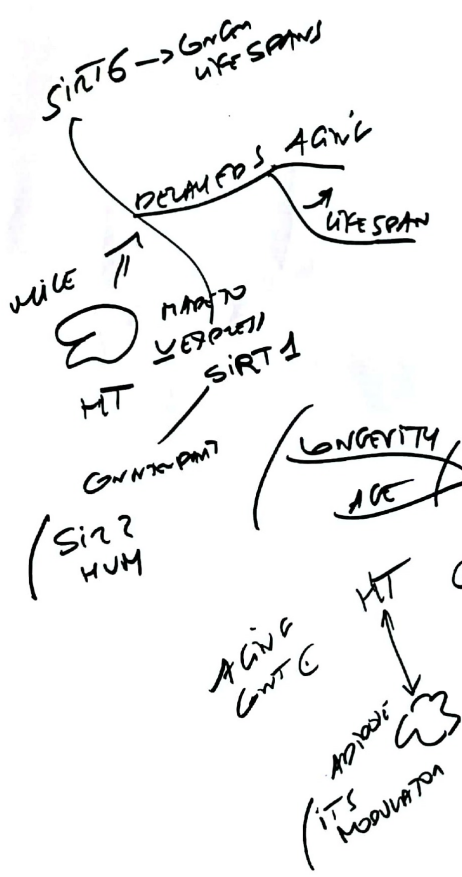
SMALL WIDE SPECY IN REGIONS REPETIVE SEQ  
 HOWEVER ACG WITHIN PROMOTER

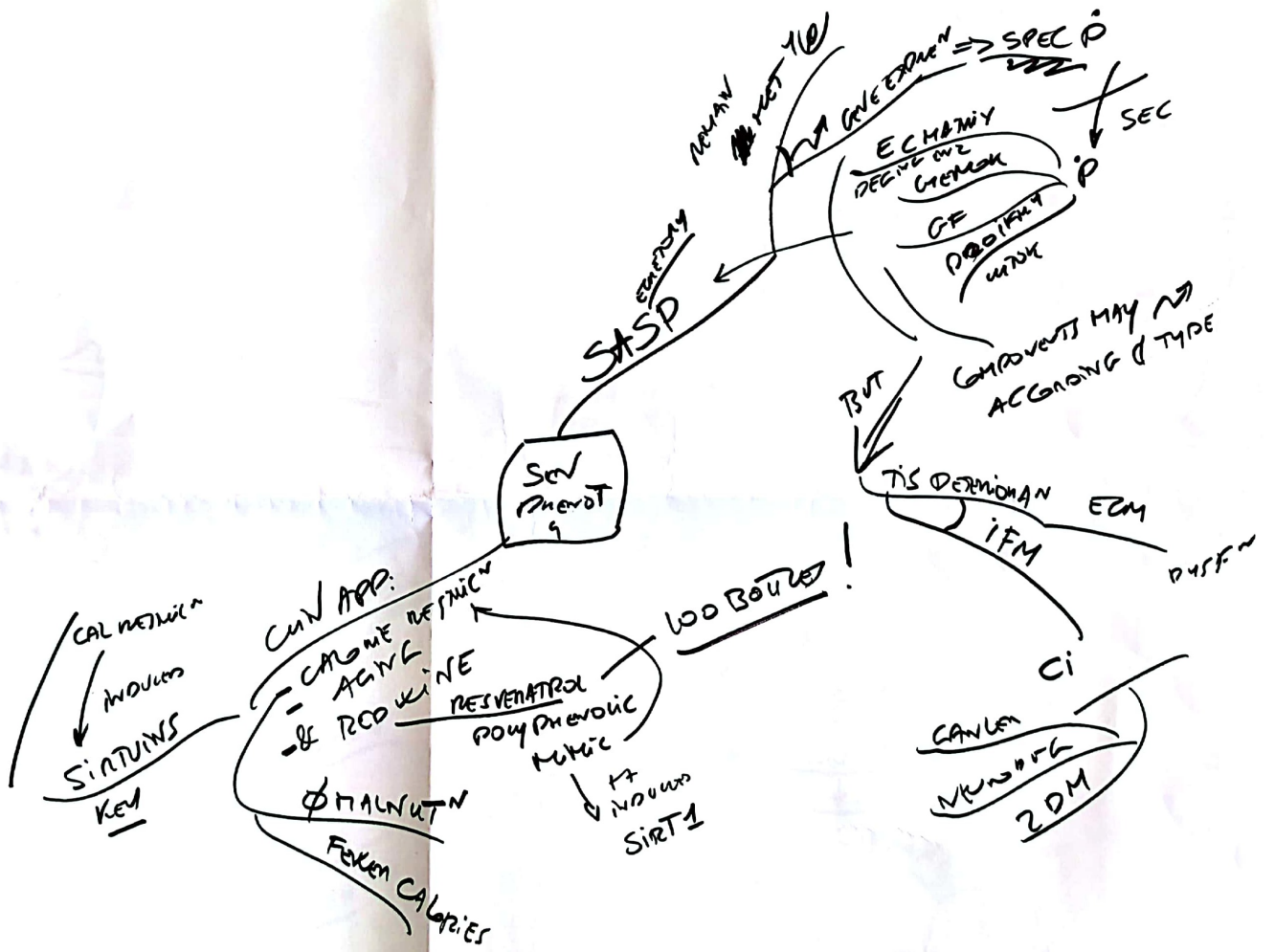
DEACETYLASE HISTONES

CREATE  
 UNIQUE REGIONS

PROTEIN TARGET PARTICIPATE IN

UNIQUE REGIONS  
 NOT WITH  
 Nucleus







MEALY BUT OLDER \*  
 CANTAIN  
 SM

WUC  
 BUT

CATARACT  
 ANTINUTR  
 NEUROLOG  
 CANC

NO  
~~PROX~~  
~~PROX~~  
 ASPECT  
 AGING

12-154 LE

MI  
 STAGE  
 ZINC  
 WAIN KLOP  
 SWIM

CUN APP  
 PROGERIAS  
 &  
 NUCLEUS  
 ANCI TEUNGE

SCAFFOLD

→ AGING

SEWA & NEOM DAN  
 ↓ SUBS WIT FAT

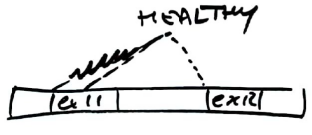
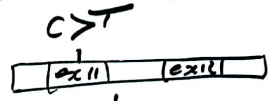
↓ BONE KAW DE 1000

POON  
 MI  
 OIOT

ALOPOLIN



UT GANSON  
 IL FOR O  
 2000000  
 4000000  
 HGPS



LOW  
 ==  
 ↓ N70Y

HIGH LEVELS  
 TOXIC  
 TRUNCATED  
 LAMINA  
 ↓ VLOY



- ACTMA<sup>N</sup> MUC
- LAMINA SM
- DESDAGN HC
- ACC<sup>N</sup> UNACD
- DNA DAM



