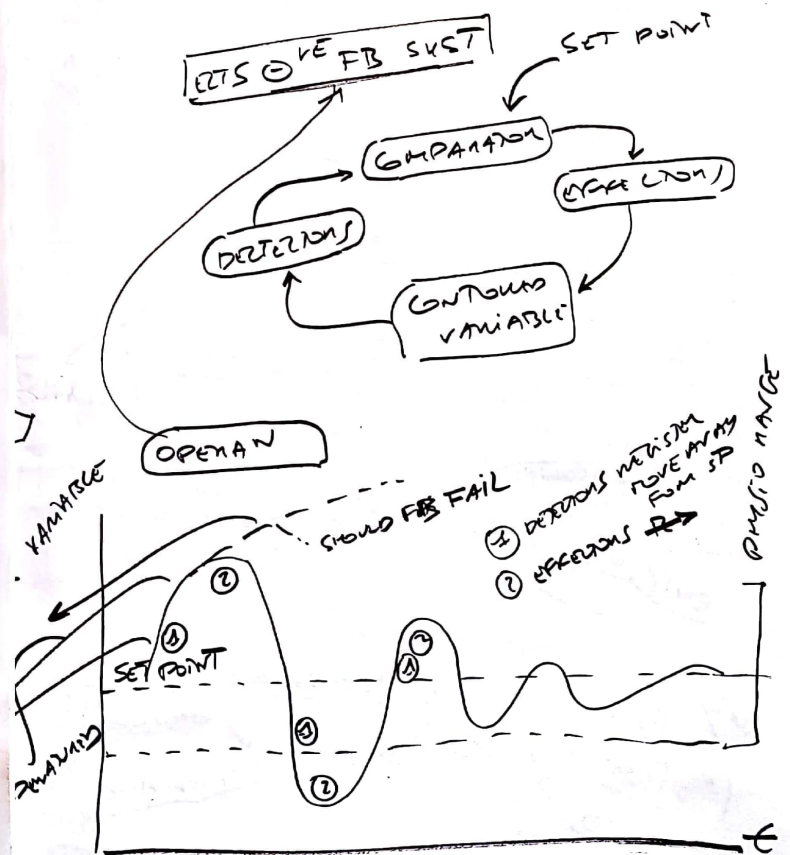
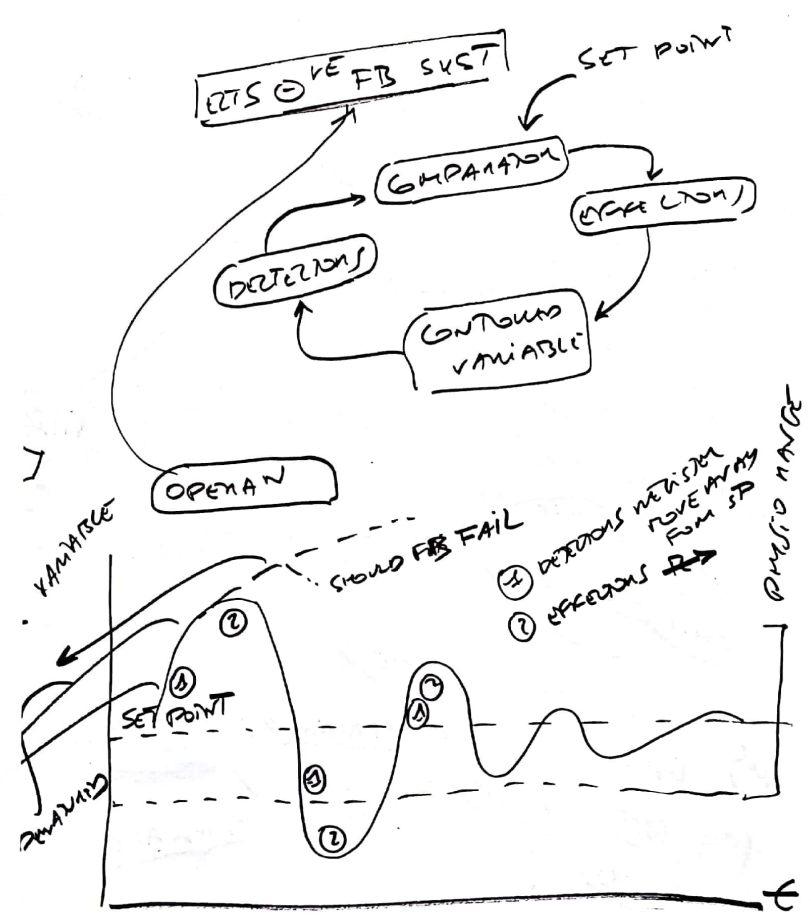


1. HOMEOSTASIS & PHYSIO PROT

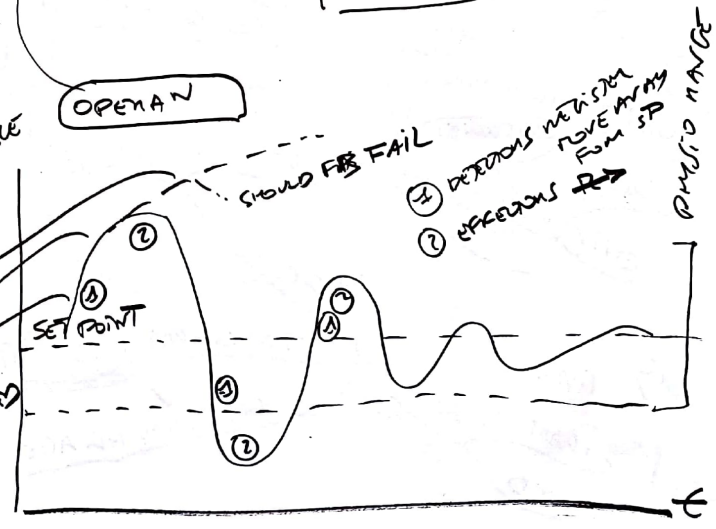
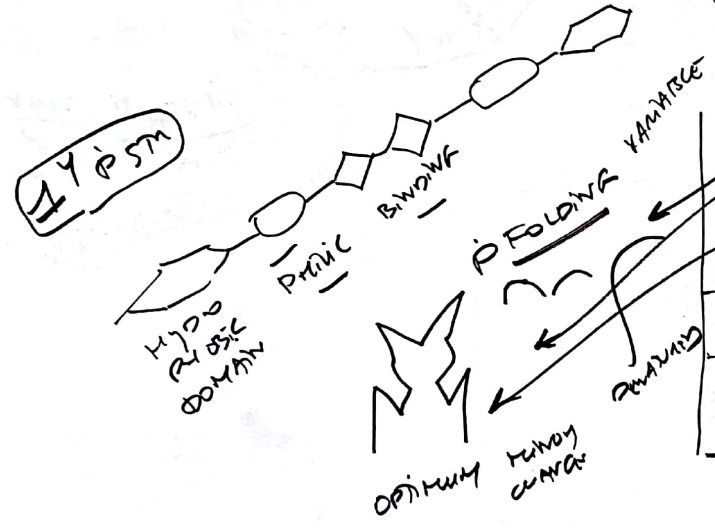
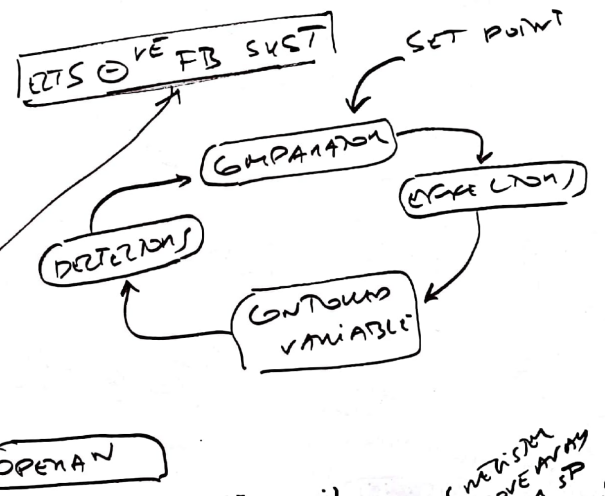
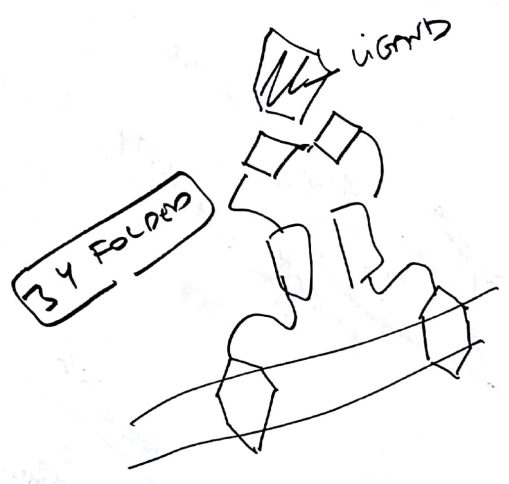


1. HOMEOSTASIS & PHYSIO PROT

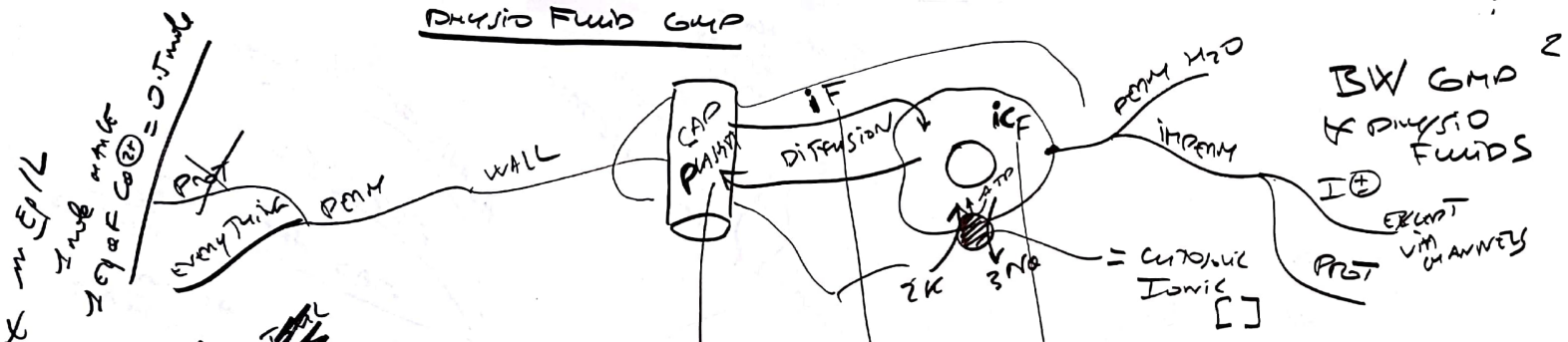


I INTRODUCTION

1. HOMEOSTASIS & PHYSIO PROT



Physio Fluid GMD



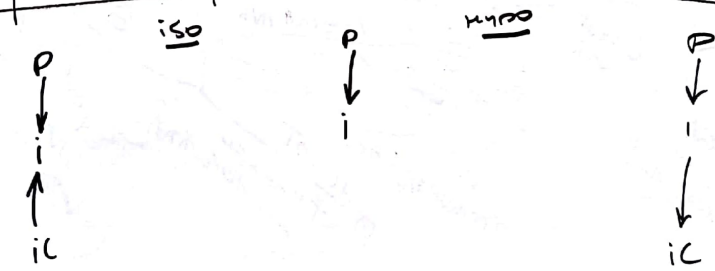
CONSTITUENTS Physio Fluids

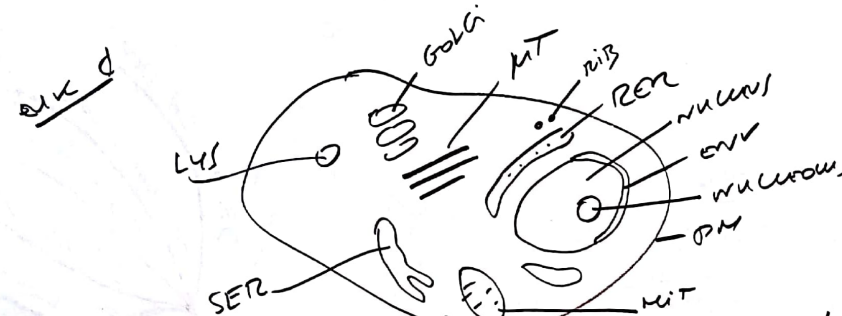
	13%	22%	65%	UNIT
H <sub>2</sub> O - % TBW	13%	22%	65%	%
H <sub>2</sub> O - vol 70kg	3.5	3.5	27	L
OSM	290	290	290	mosm/l/kg H <sub>2</sub> O
N <sub>2</sub> ⊕	140	---	10	mmol/L
K <sup>⊕</sup>	4	---	140	
Ca <sup>⊕</sup> FREE	1	---	0.0001	
Cl <sup>⊖</sup>	108	129	3-30	mmol/L
HCO <sub>3</sub> <sup>⊖</sup>	26	---	5	
PO <sub>4</sub> <sup>⊖</sup> SO <sub>4</sub> <sup>⊖</sup> ...	10	0	50	
	3		60-88	

PROPERTIES IN PHYSIO FLUIDS  
 ↓  
 OSM PAST

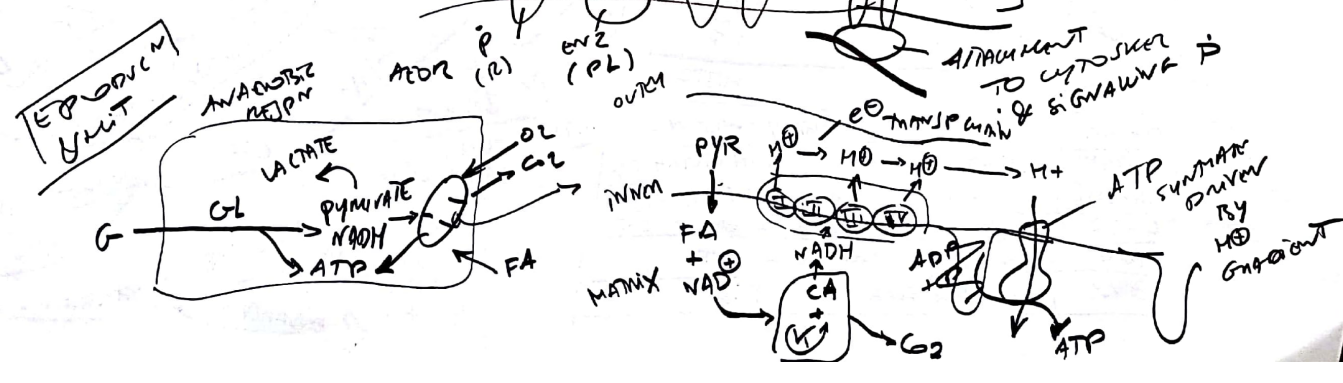
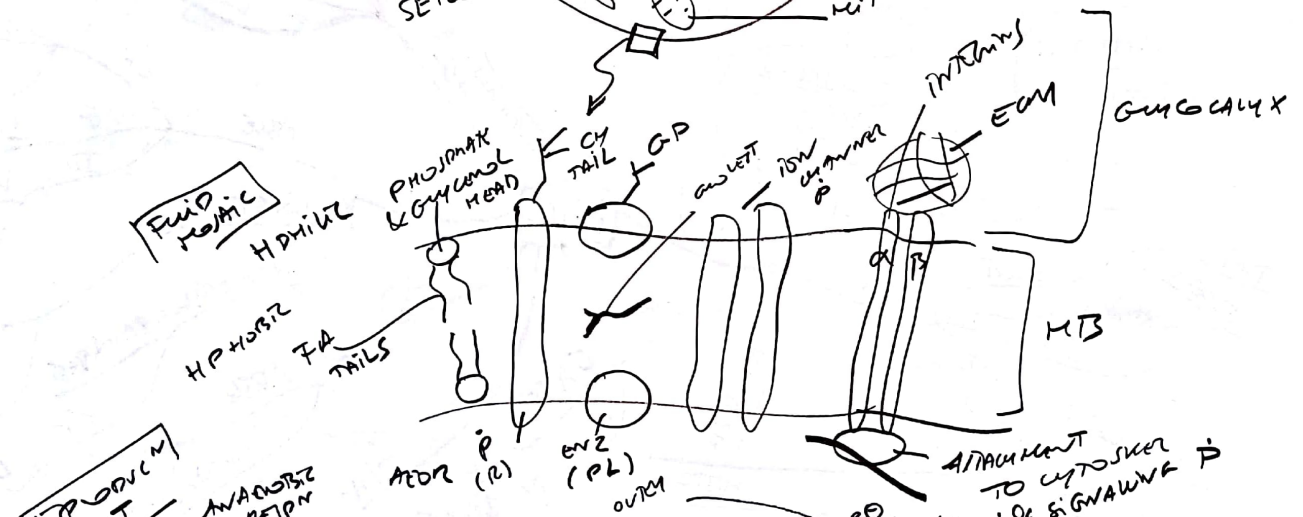
H<sub>2</sub>O MVT

PROL ↑  
 P → [ ]  
 ↓ H<sub>2</sub>O MVT  
 EXPANSION i  
 ↓ GNCs  
 OSM RST  
 H<sub>2</sub>O ↓

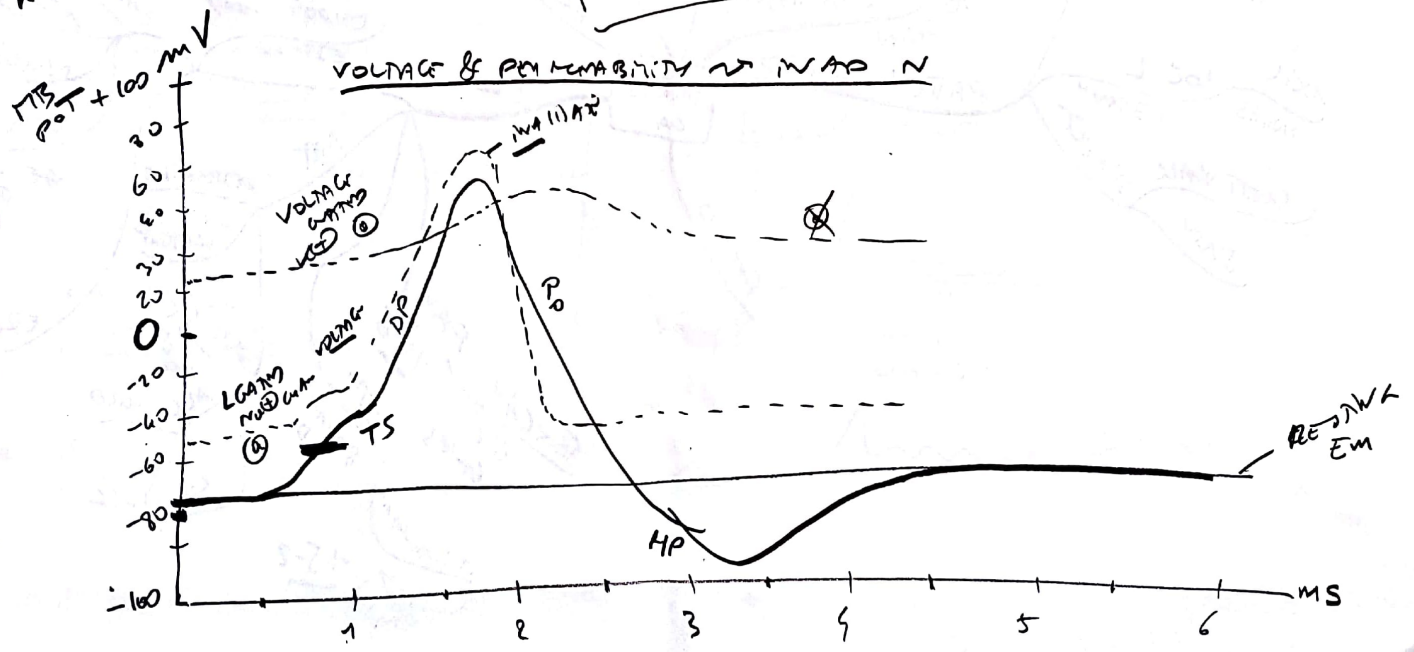
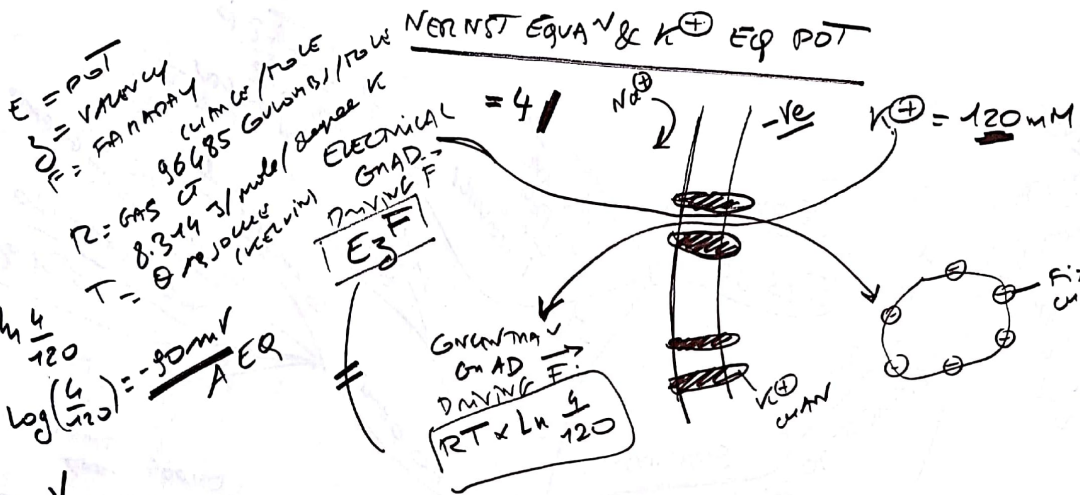


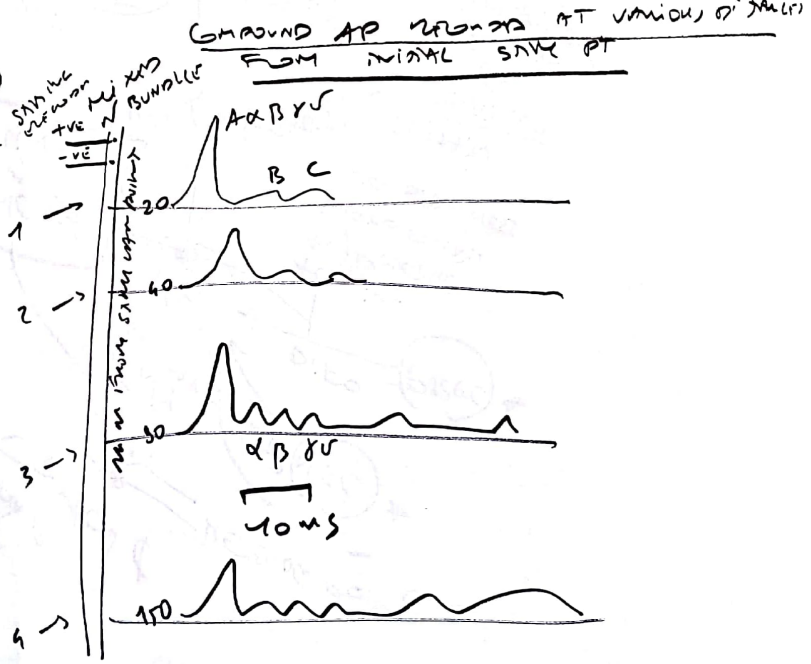
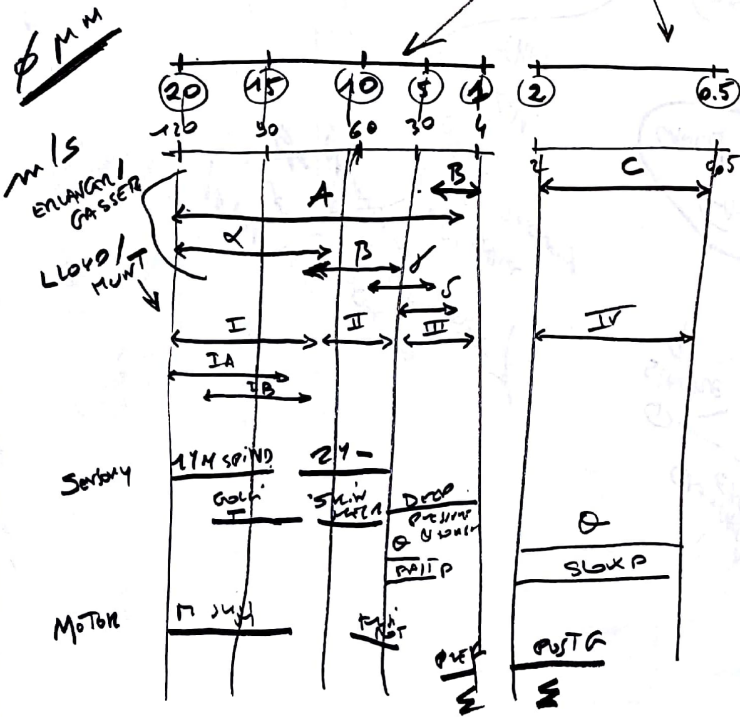
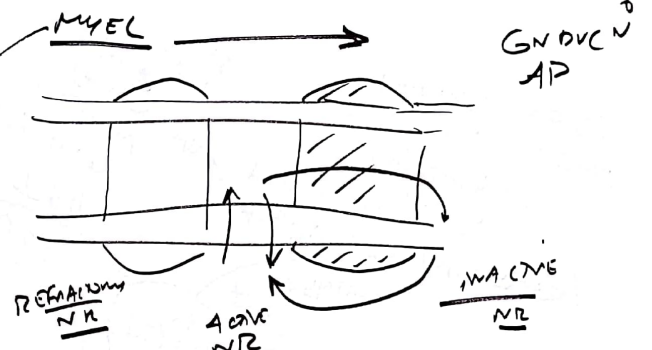
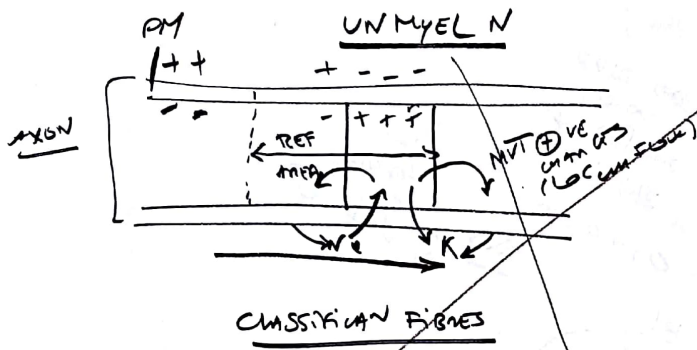


6  
3  
of MTS  
ORGANELLES

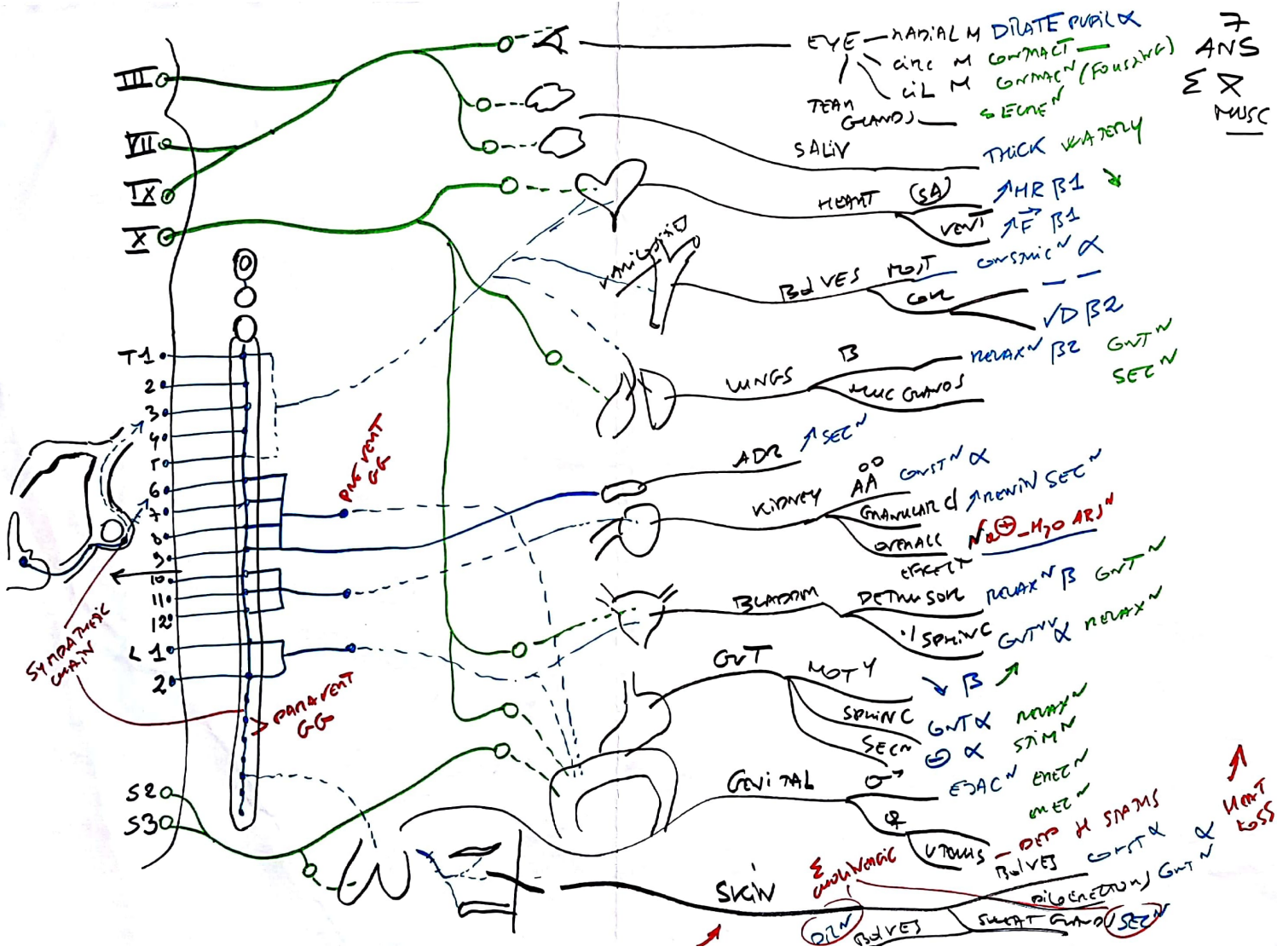




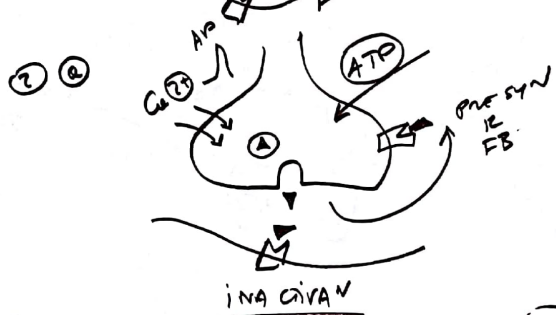






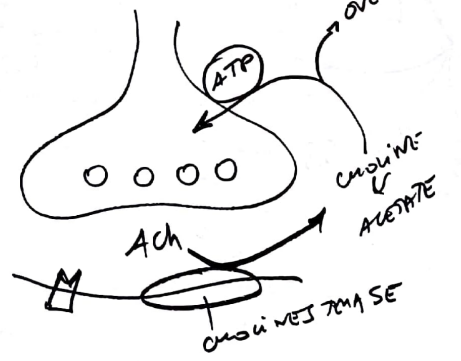


# NEUROCHEM TRANSM

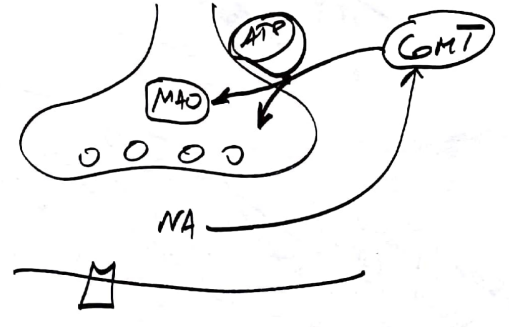


## INA CIVAN

③ CHOLINERGIC



④ ADRENERGIC



**RCC**

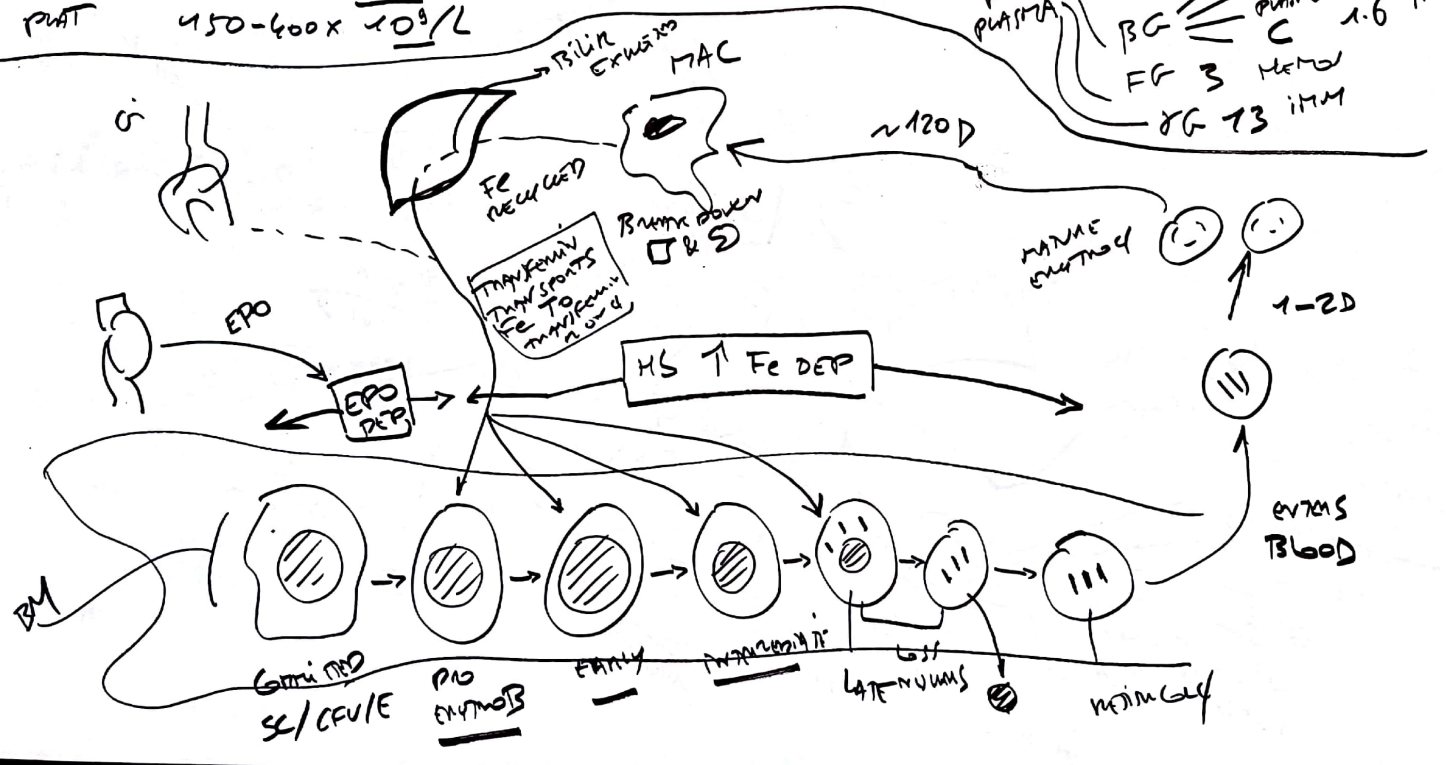
ERYTHROD	♂	$4.7-5.1 \times 10^{12}/L$
	♀	$4.2-5.4$
PCV	♂	0.41-0.52
	♀	0.36-0.48
HS	♂	130-180 g/L
	♀	120-160
WBCC		$4-11 \times 10^9/L$
PLAT		$150-400 \times 10^9/L$

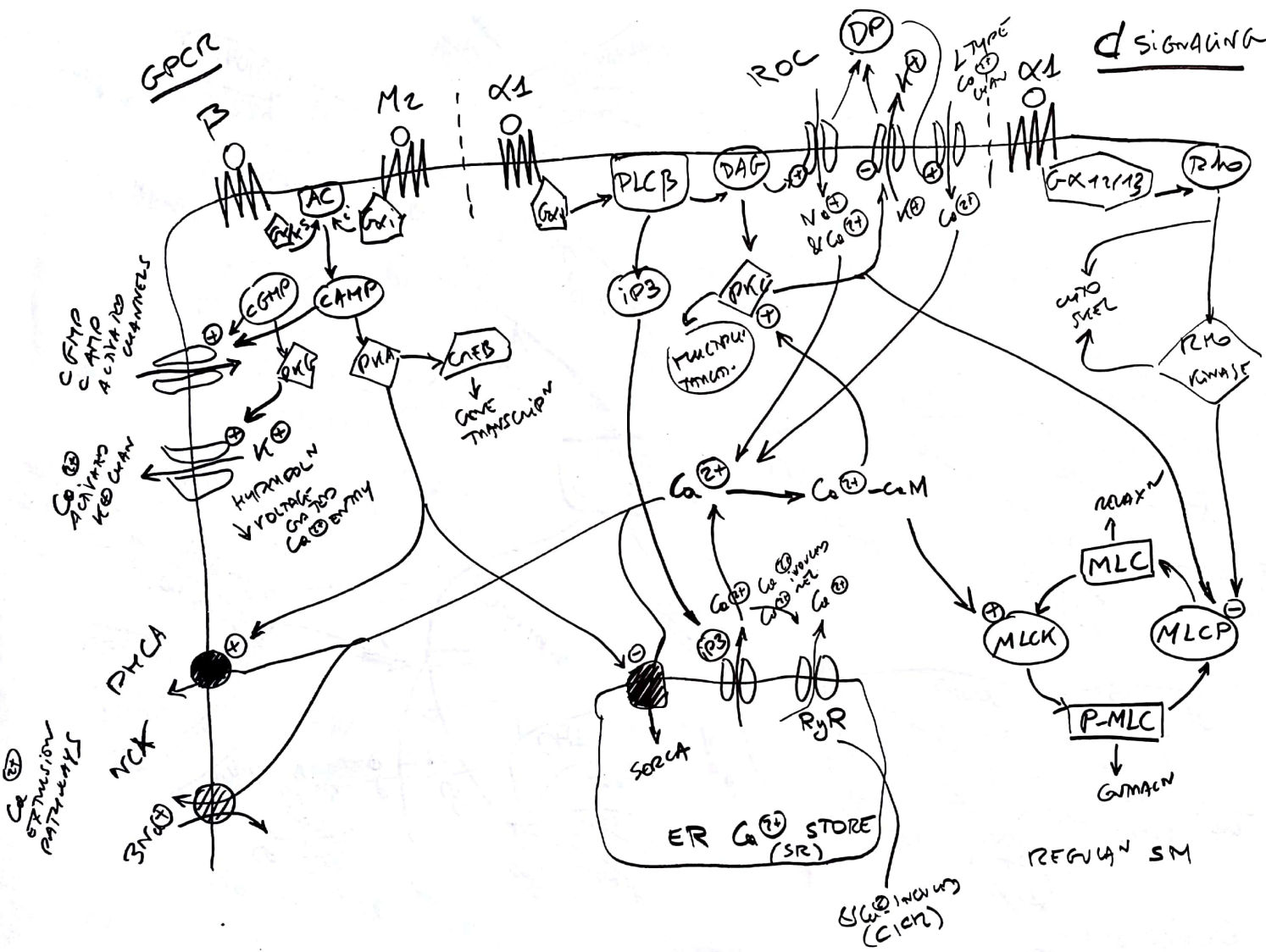
B	0.5	0-100
EOS	1-4	150-300
N	50-70	3000-6000
GG	2-8	300-600
MONOD	20-60%	75T
LD		$1700-3000 \times 10^9/L$

**Blood**

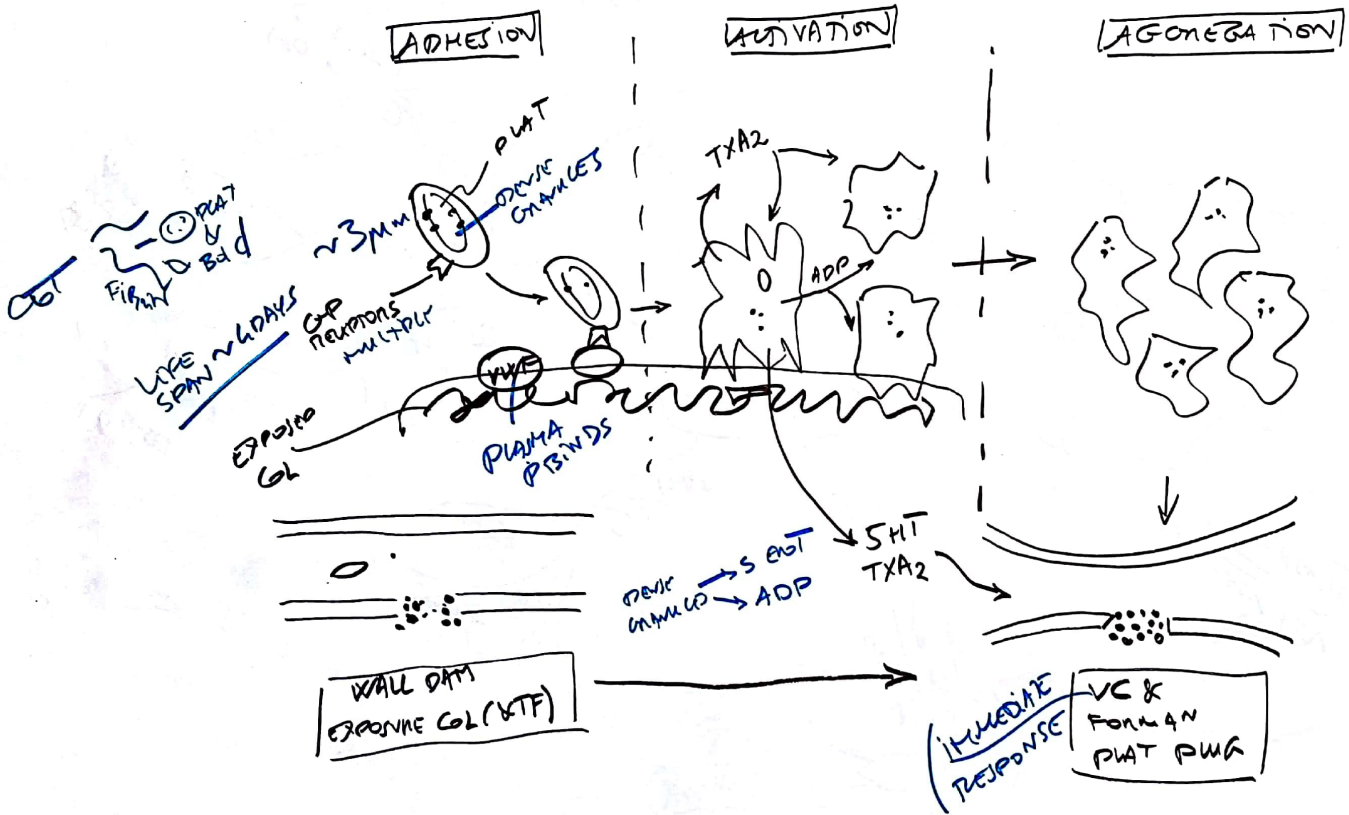
ALB 48 g/L - DMG I  
 KG 5.5 - GDM MYP  
 BG 3 - ANTIDROTRAP  
 FG 3 - TRANSFERIN 3 Fe  
 C 1.6 - PROT  
 XG 73 - PHOSPHO 0.77  
 IMM



d SIGNALING



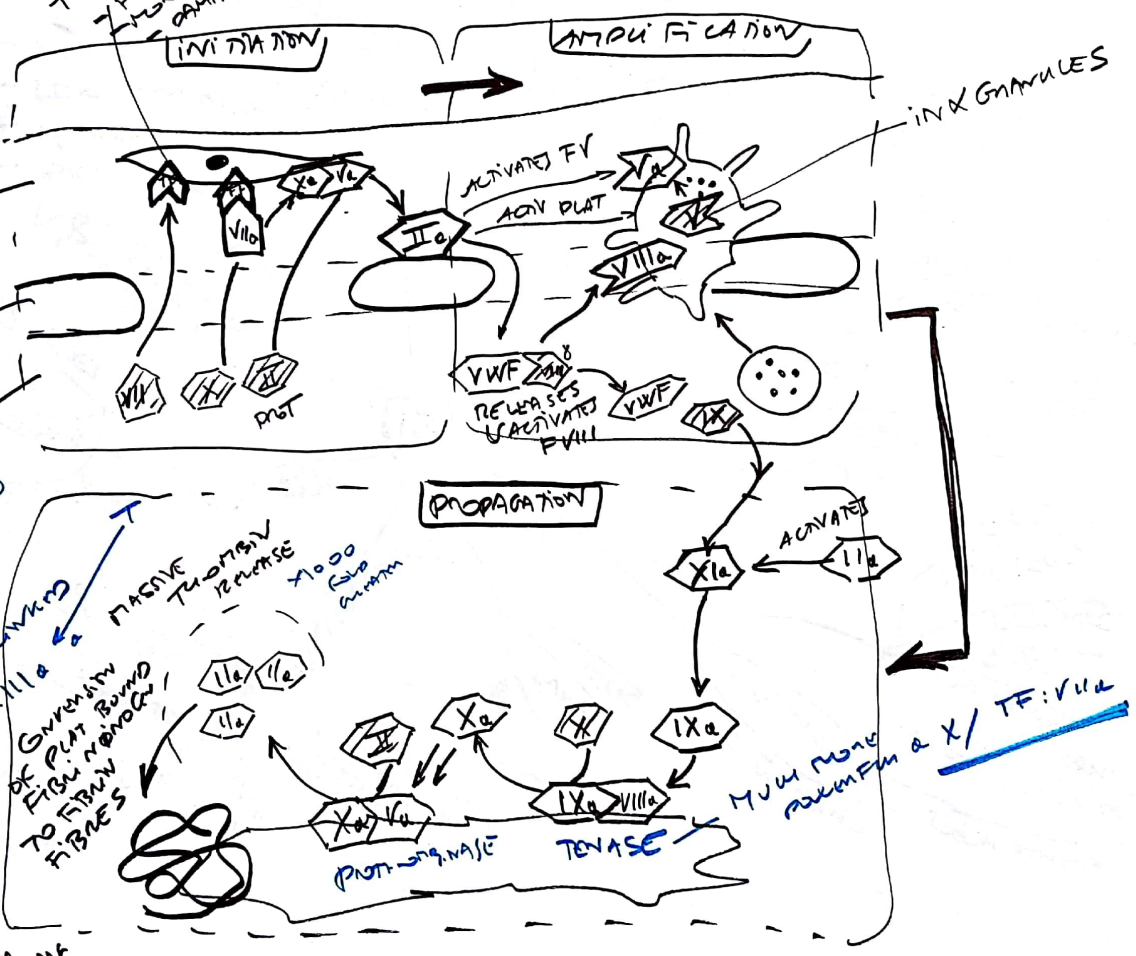
1Y HEMOST - FORMAN PLAT PWA

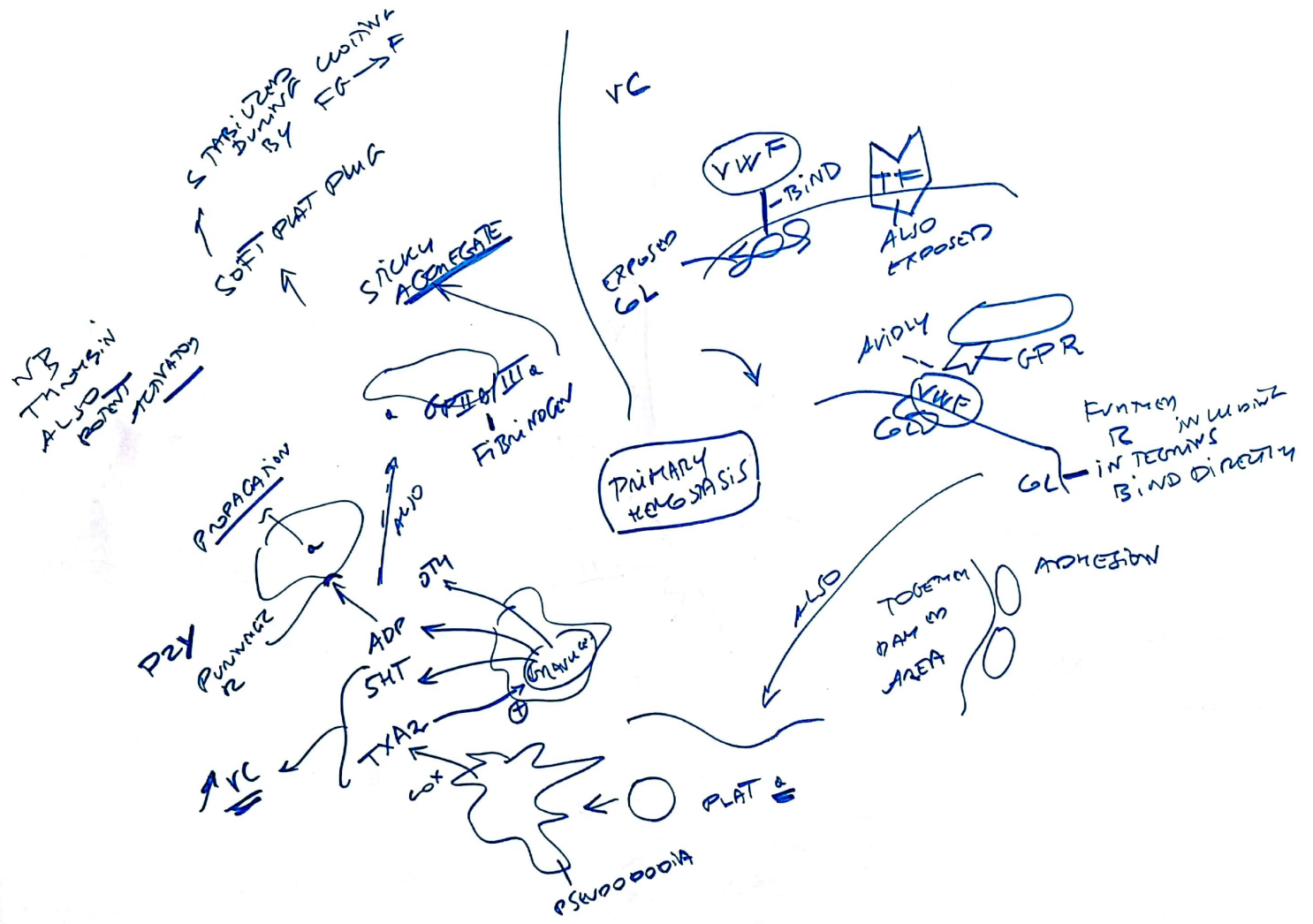


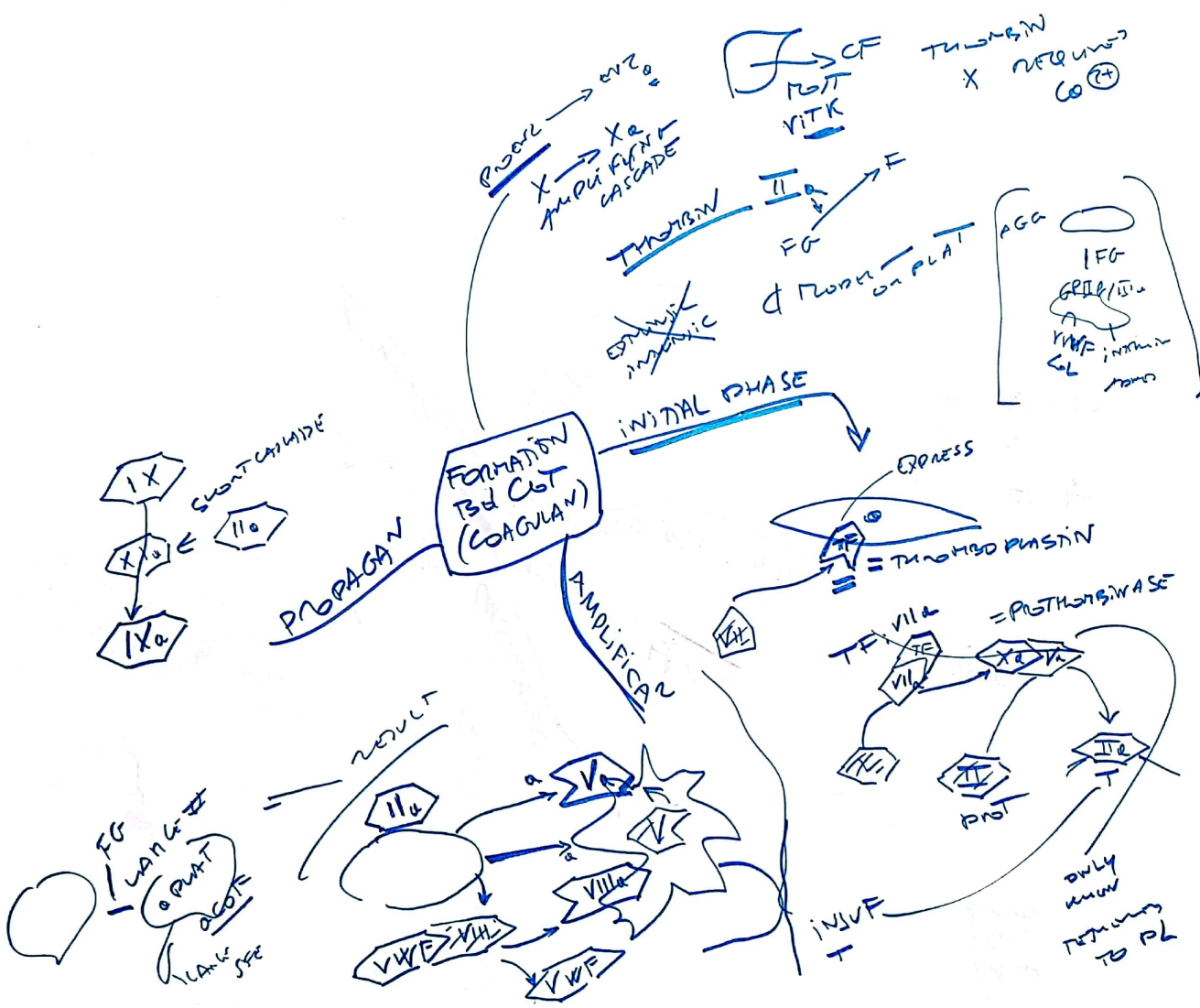


TF-BASED MODEL CLOTTING

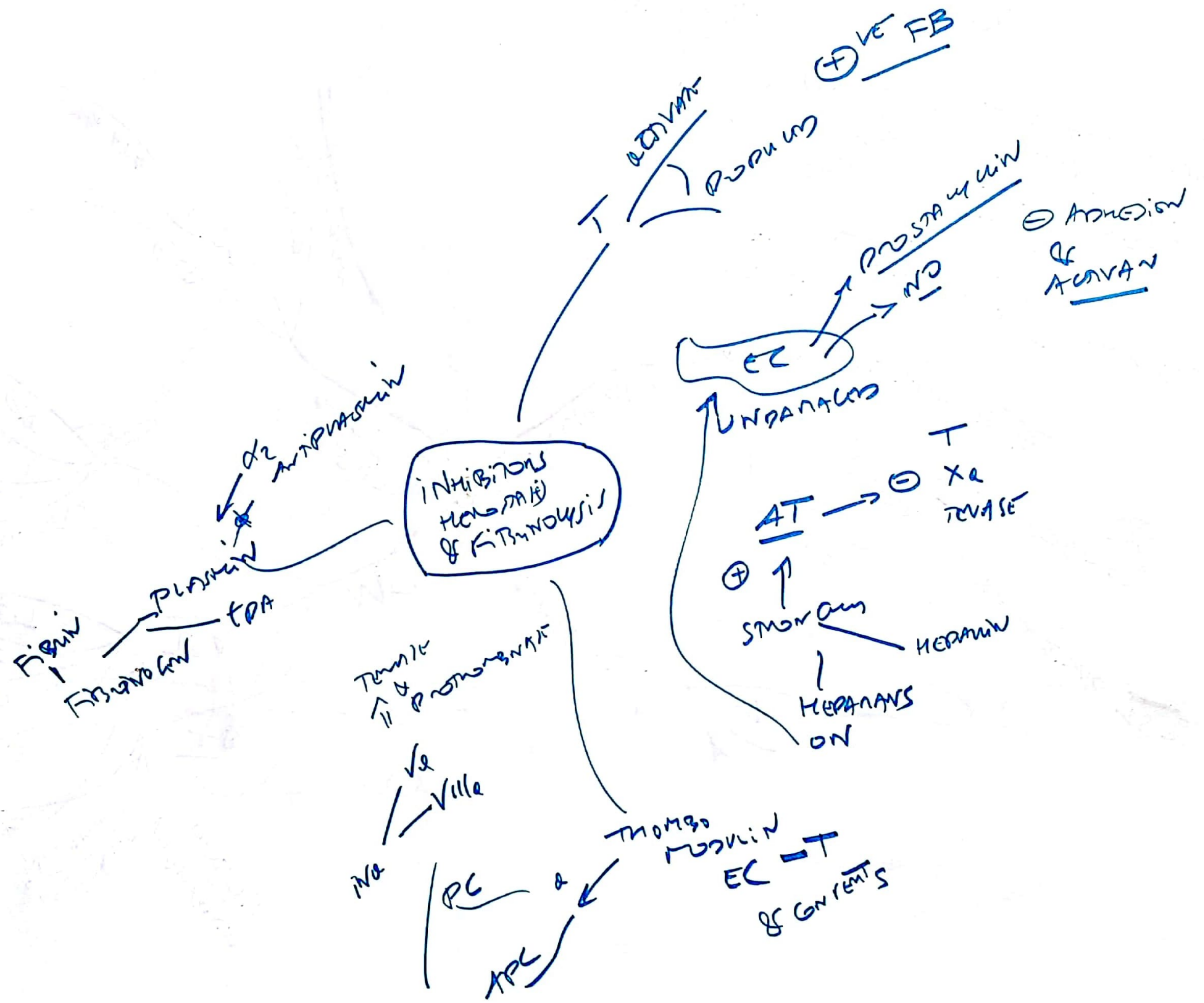
- 1 FG
- 2 2nd
- 3 TF: Transcription
- 4 Co
- 5 Prothrombin
- 6 VWF
- 7 SMC
- 8 AMHA
- 9 B
- 10 SP
- 11 PLATIN
- 12 HF
- 13 FSF
- VWF
- PKA
- HMK
- PROTEIN
- ATIII
- Heparin
- PC
- PE
- PE 2P
- PLATELETS
- PLATELETS
- EPA
- UNSATURATED
- PAH
- PAH
- AMIN
- PAH



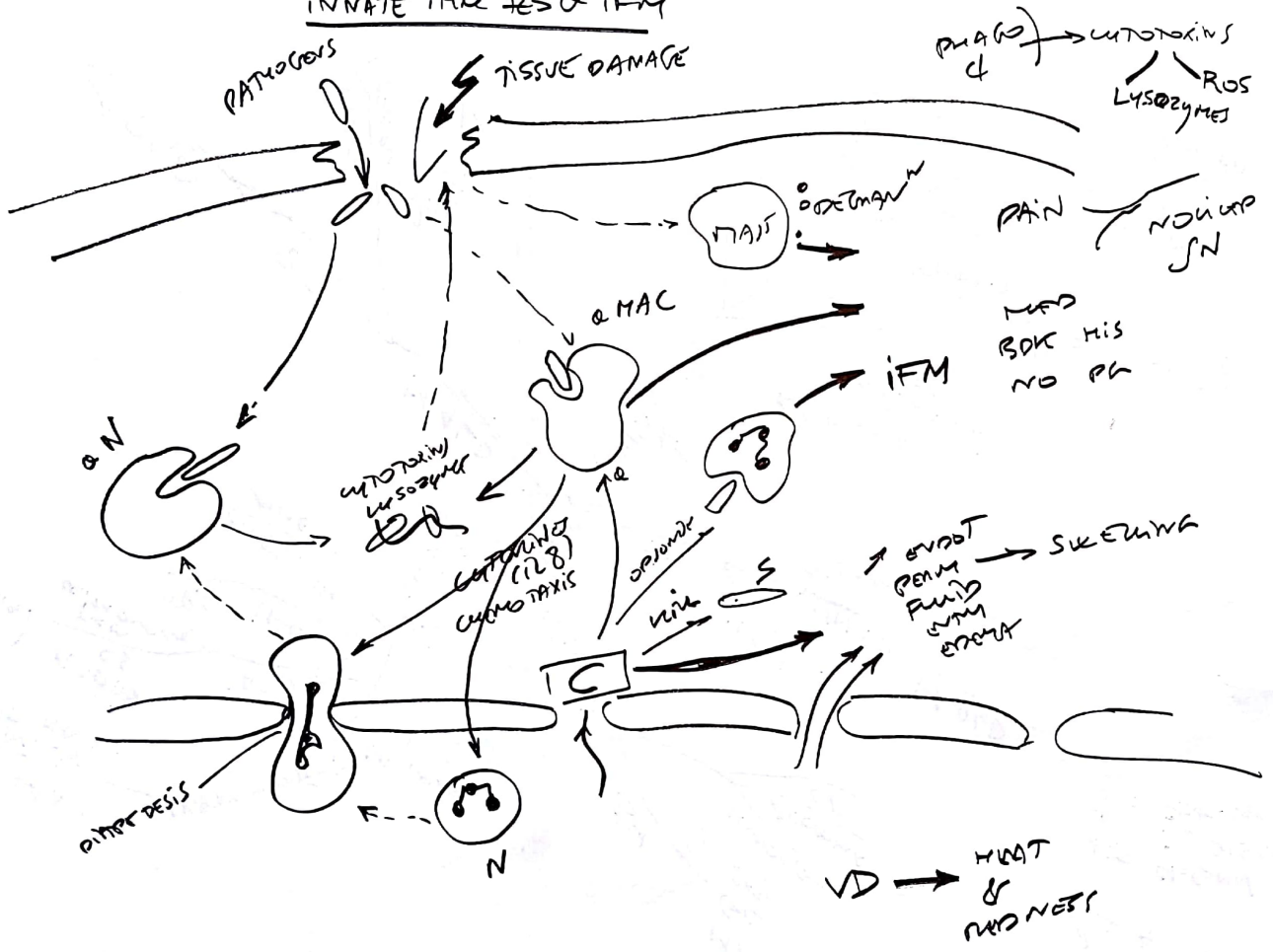




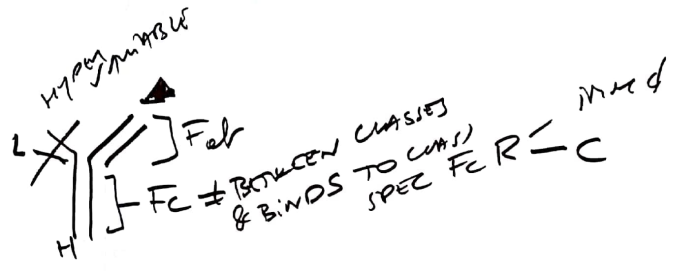




INNATE IMM RE & IFM

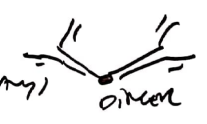


AR



CLASSES: MOSTLY MONOMERS

- G MC 80% → (MATH) a AUMW
- E ANTI HELMINTH
- D NAVEB A/R
- A MUCOSAL CUT AIRWAY
- M NAVETS A/R

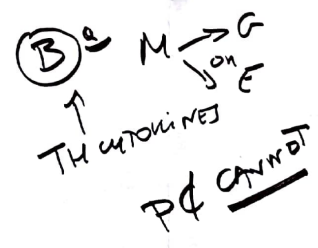


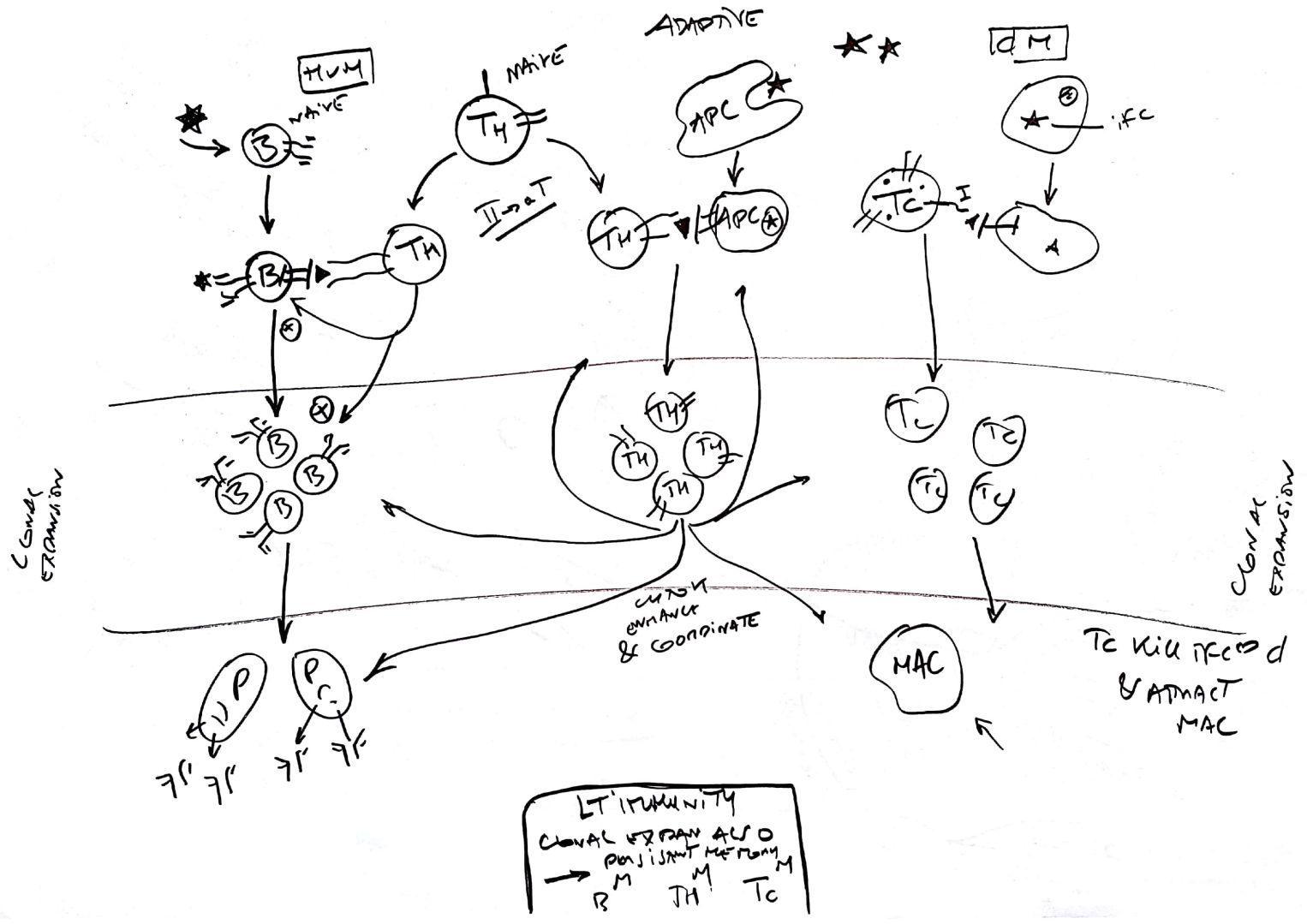
→ \* PROSTATE

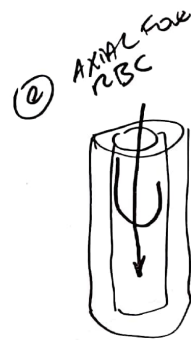
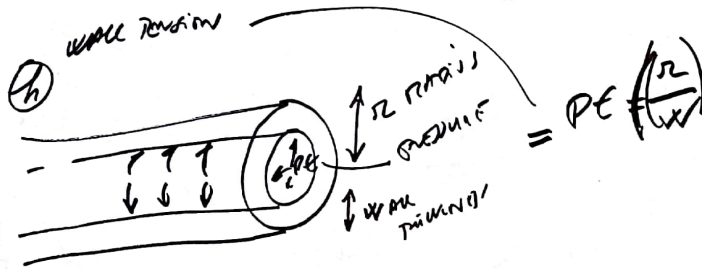
SHOWS a C

INTC INDEPENDENT HUM →

SKITTING

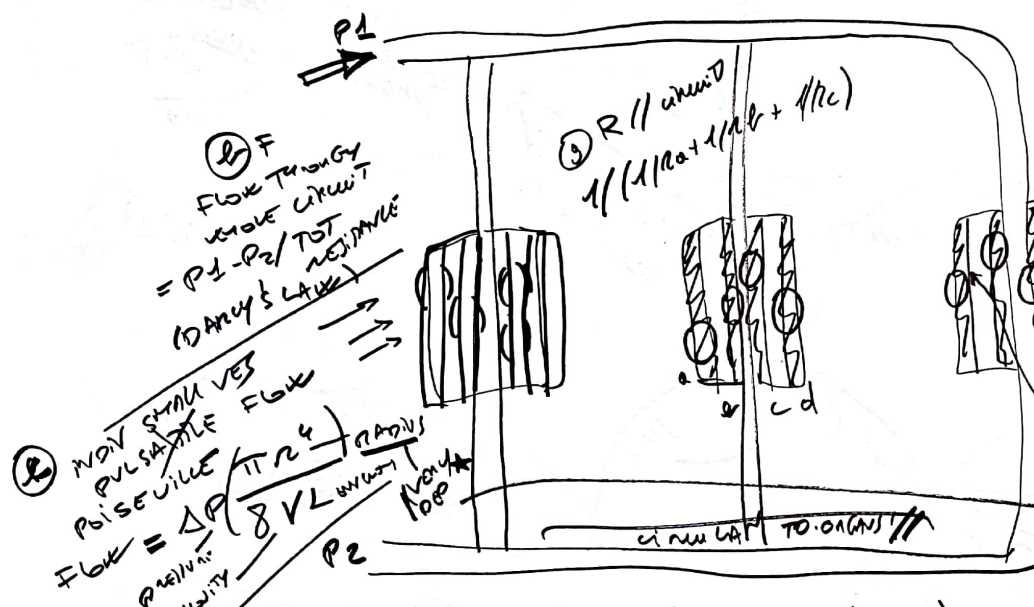






PRINCIPLES DIFFUSION & FLOW

① NARROWING  
 $\rightarrow$   $\rightarrow$   $\rightarrow$   
 $\leftarrow$   $\leftarrow$   $\leftarrow$   
 &  $\Rightarrow$  NARROWEST



② NON STATIONARY PULSatile FLOW

POISEUILLE FLOW

$FLOW = \frac{\Delta P}{8 \nu L} \left( \frac{r^4}{4} \right)$

PERIPHERAL VELOCITY

RADIUS

LENGTH

