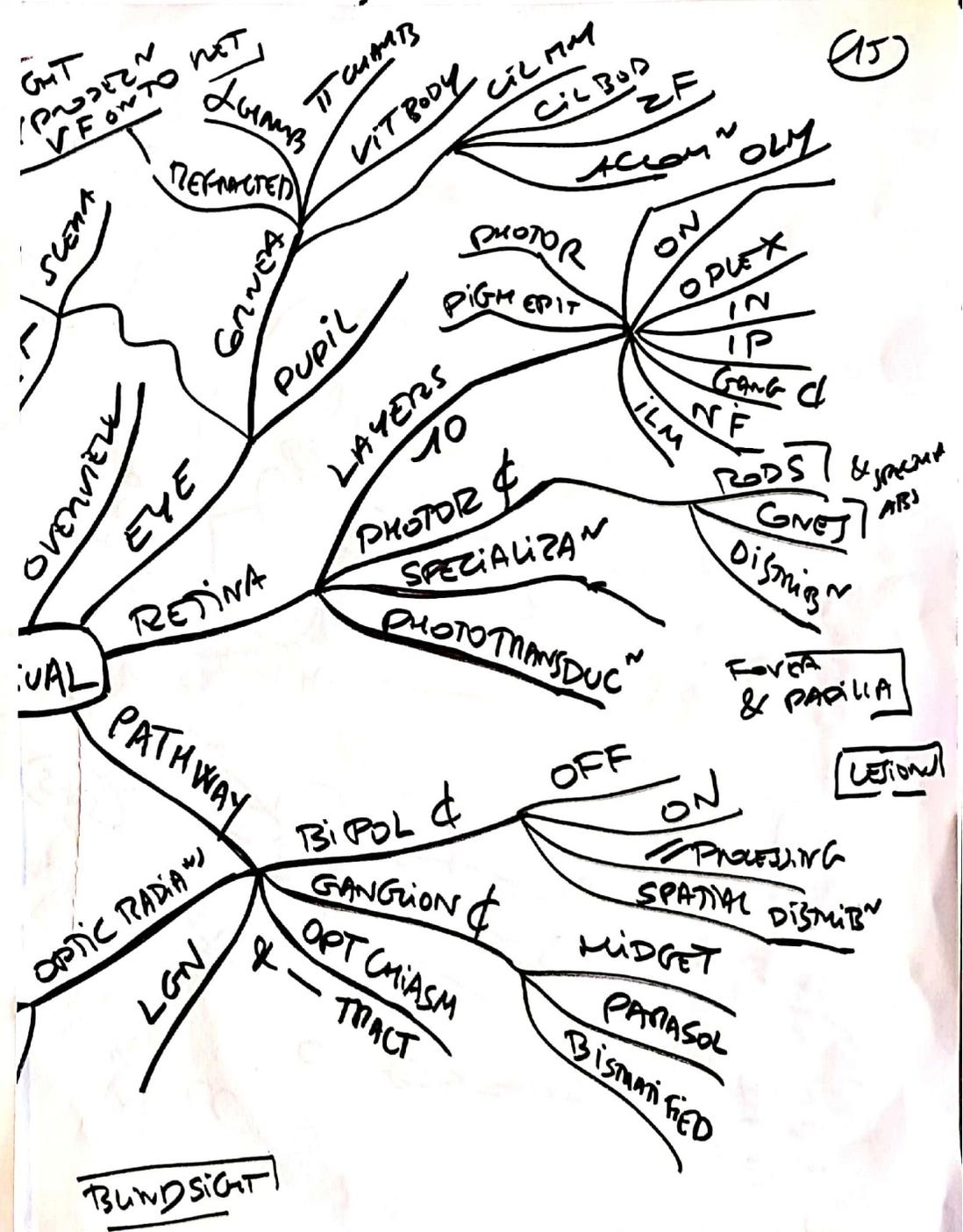


$\frac{40}{8}$
 48 pages

VISUAL SYSTEM
~~FUNCTIONAL ANAS~~

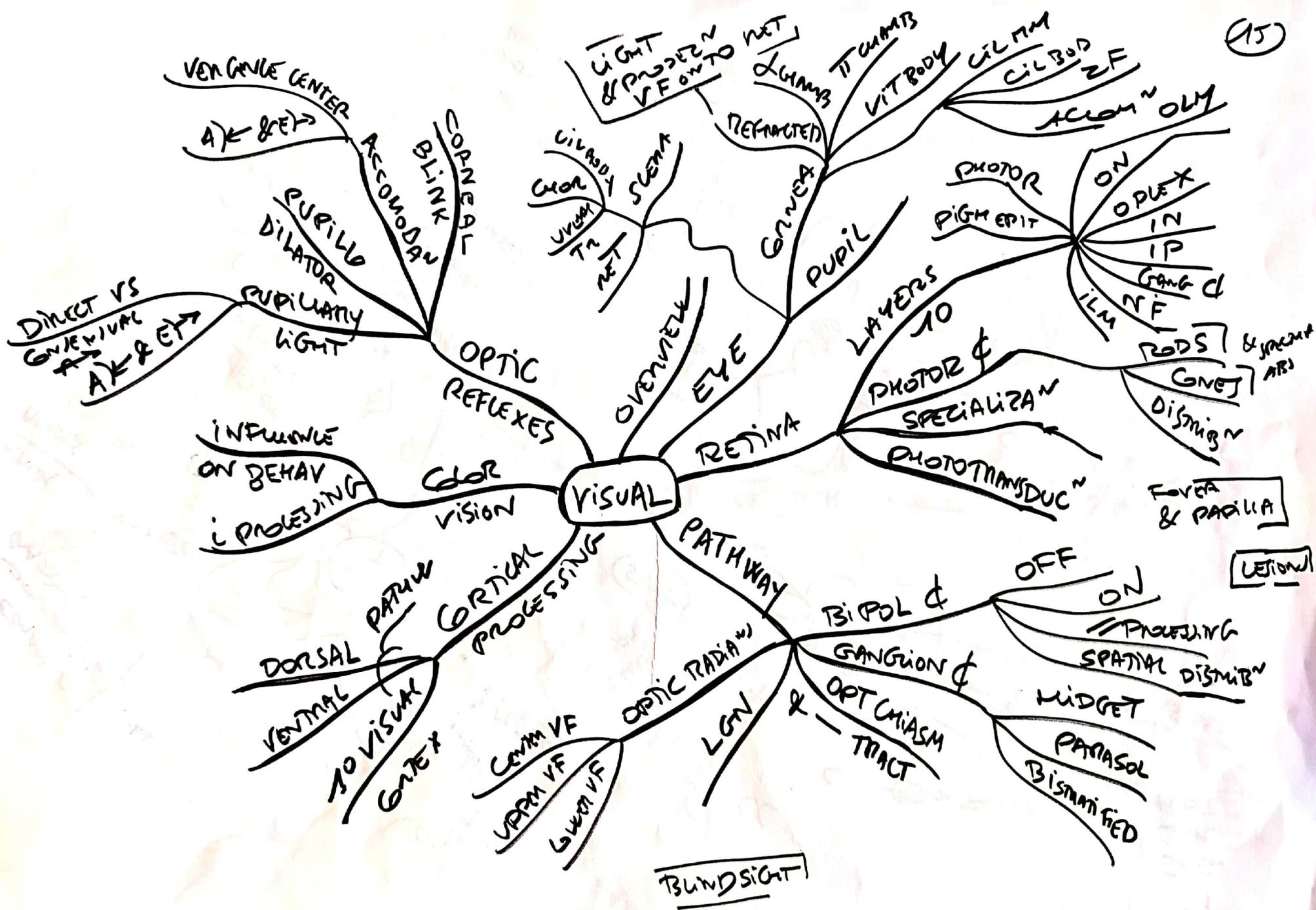
(VLAERS)



CONTENTS
SUMMARY
&
OVERVIEW

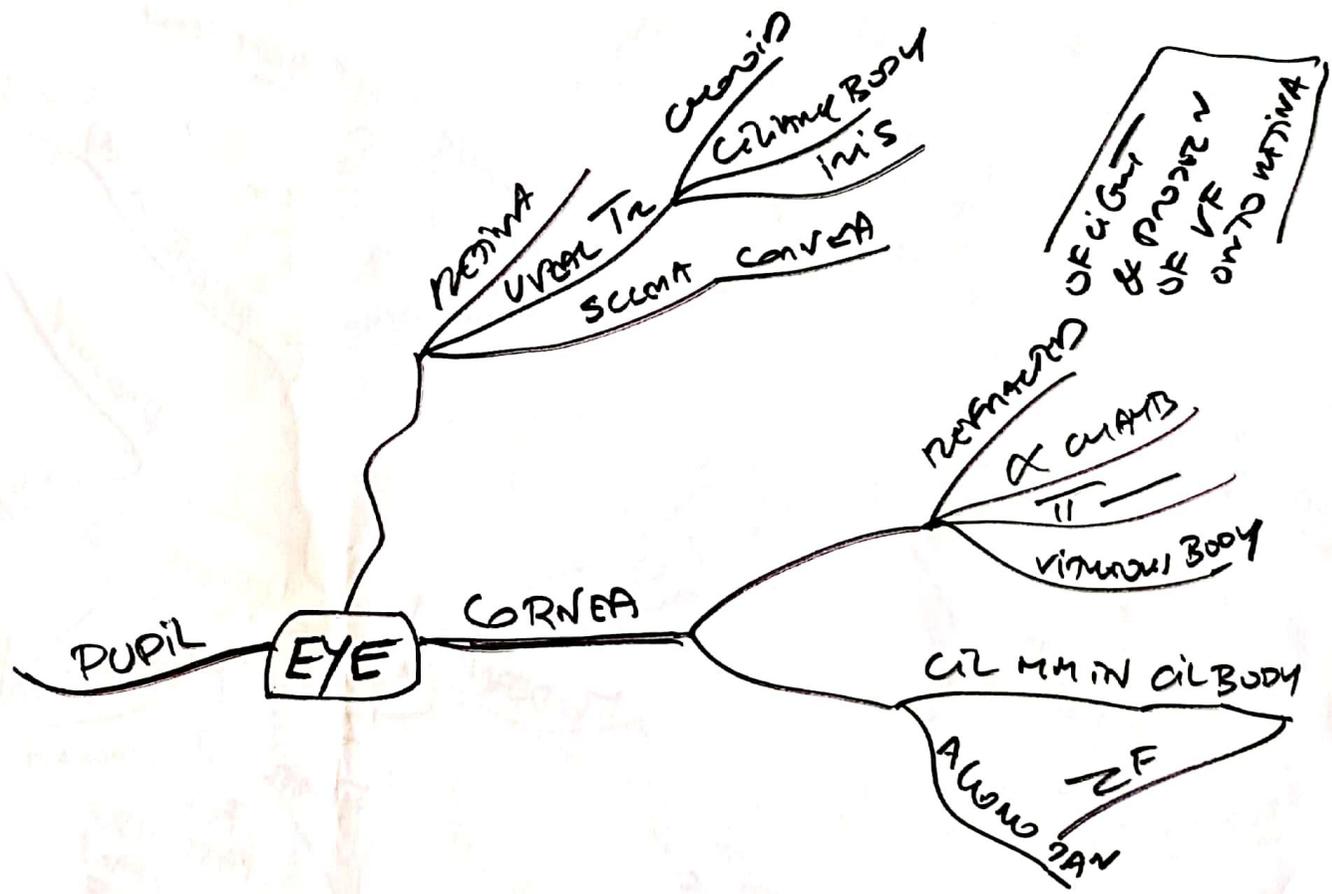
~~OVERVIEW~~
~~BLOOD SUPPLY~~

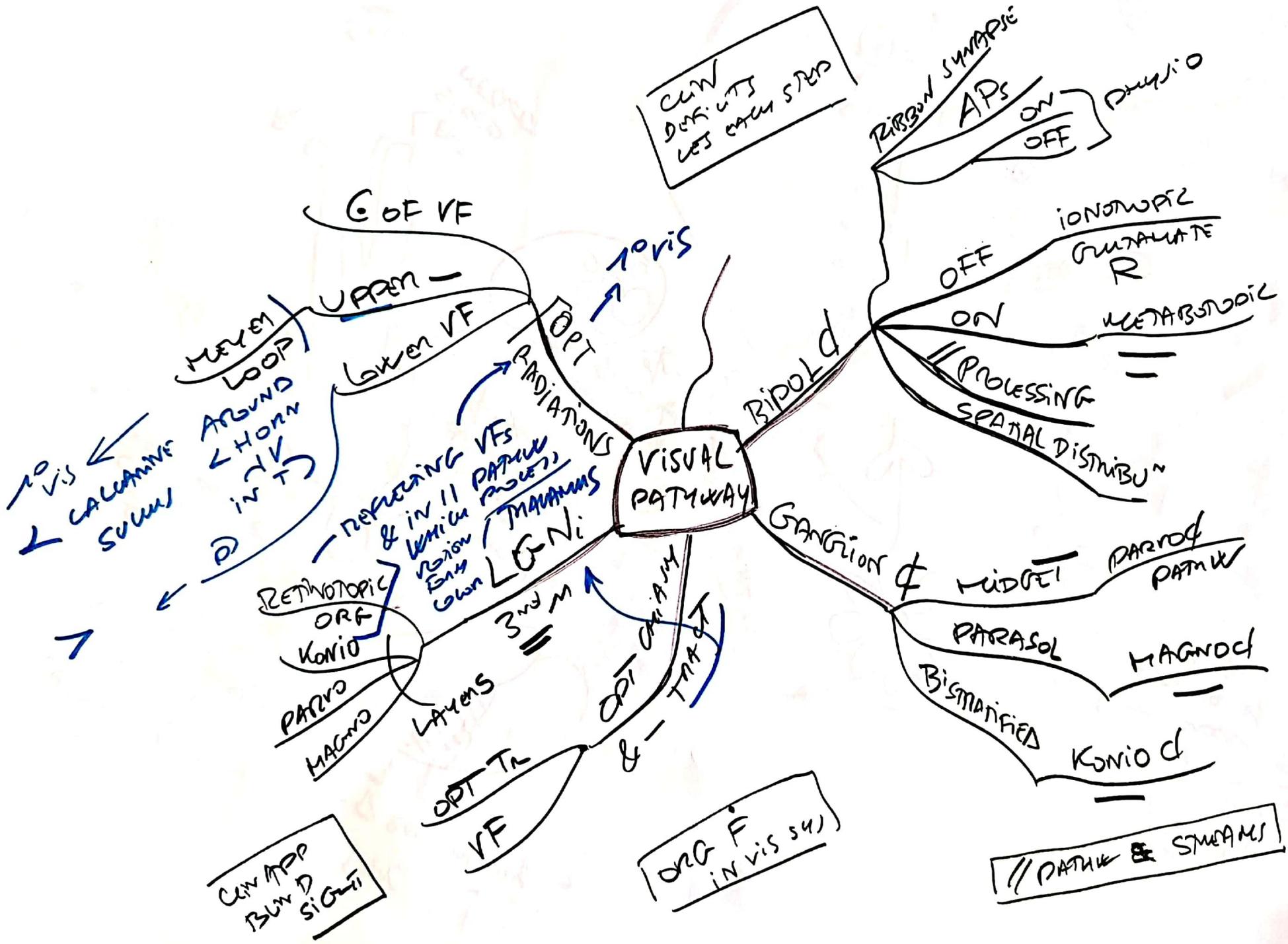
(VLAERS)

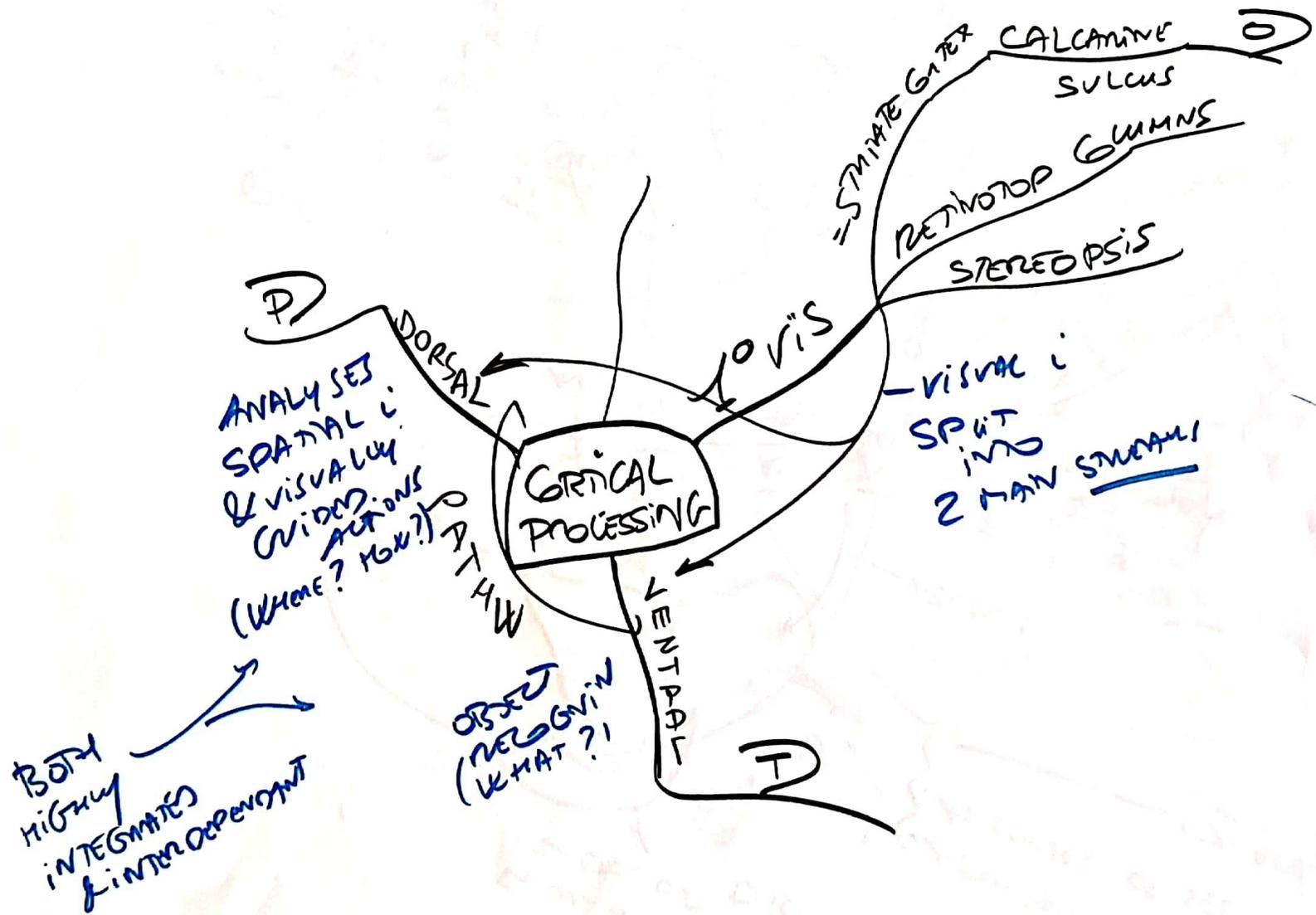


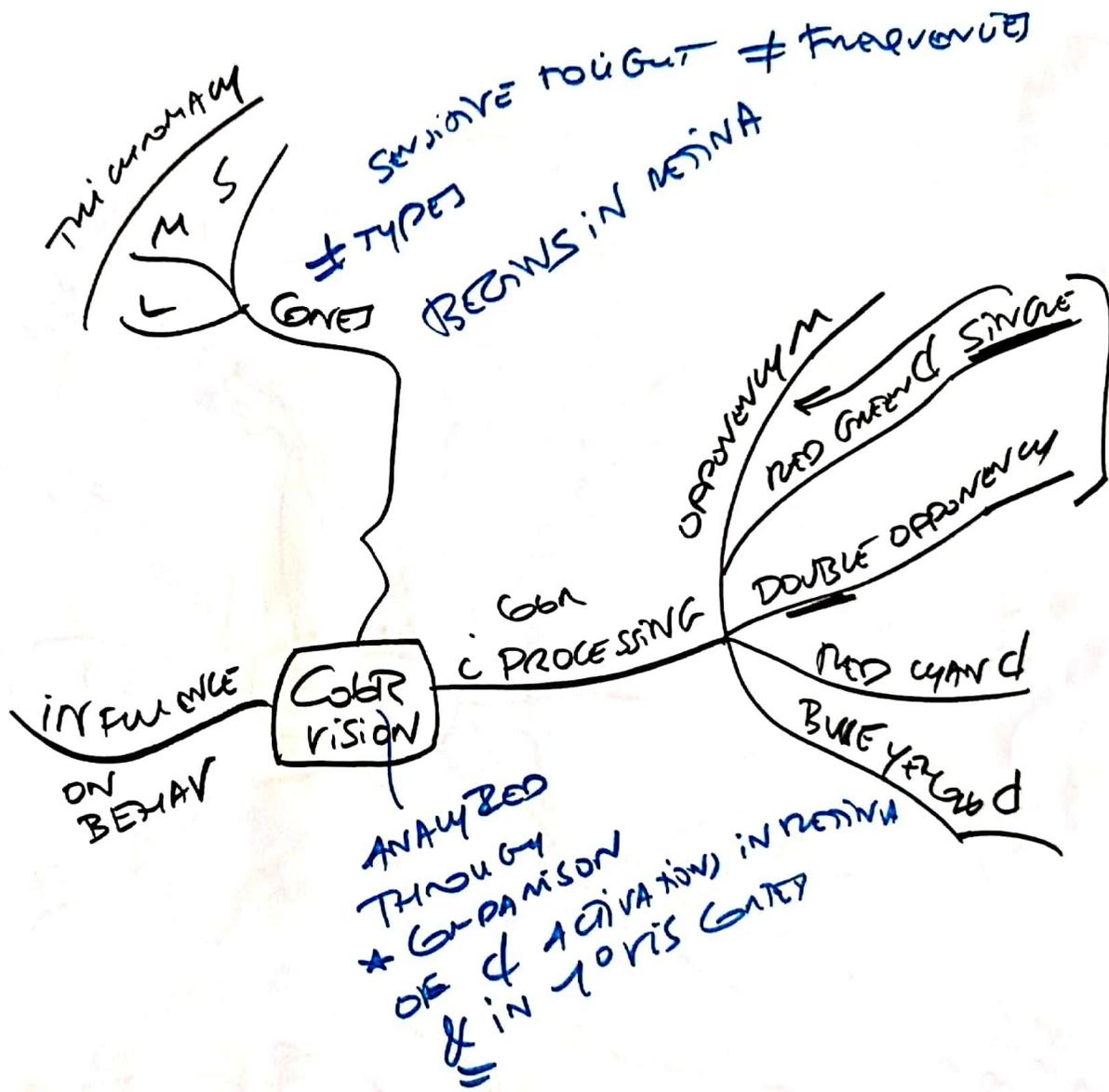
BLINDSIGHT

(VLAERS)

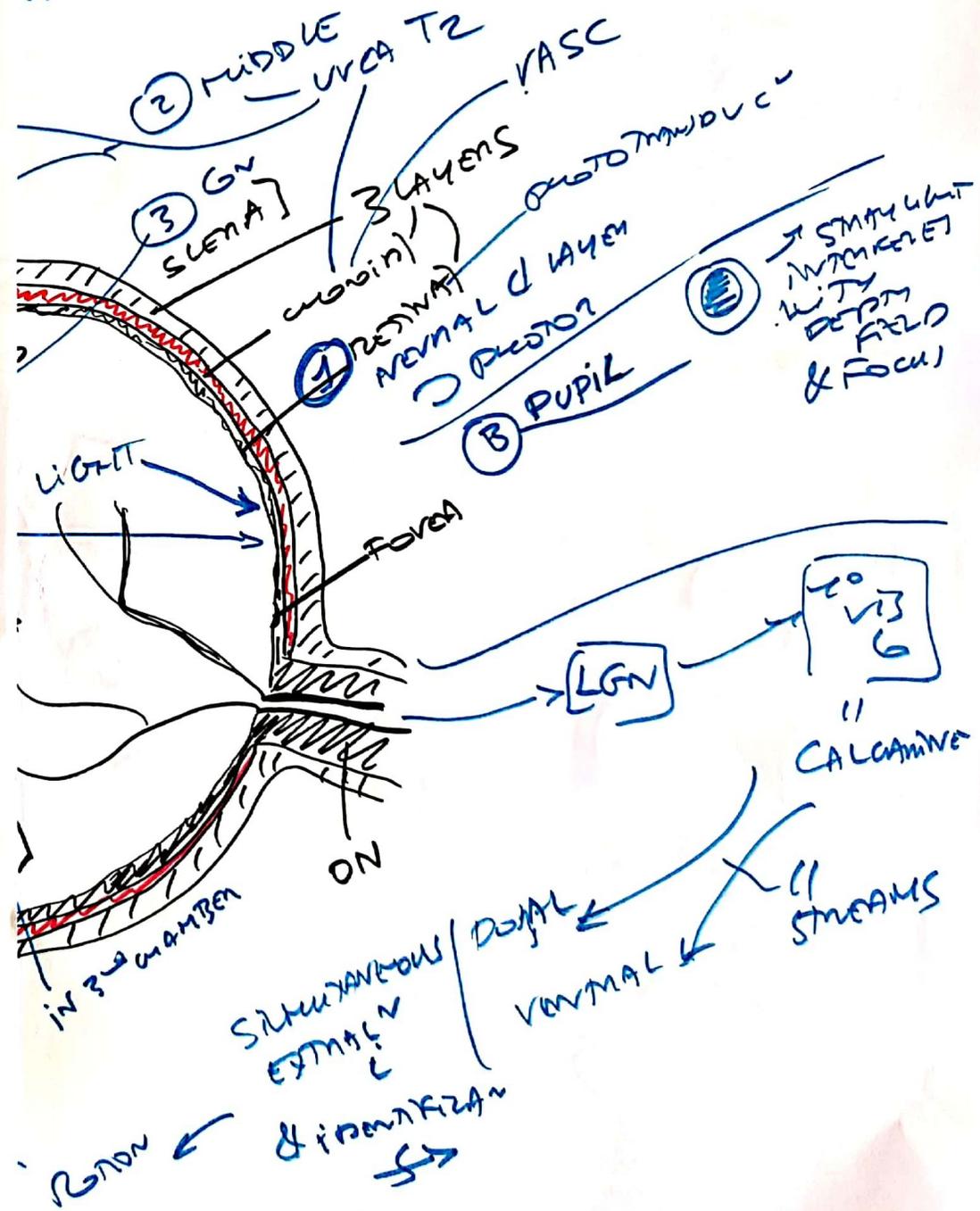








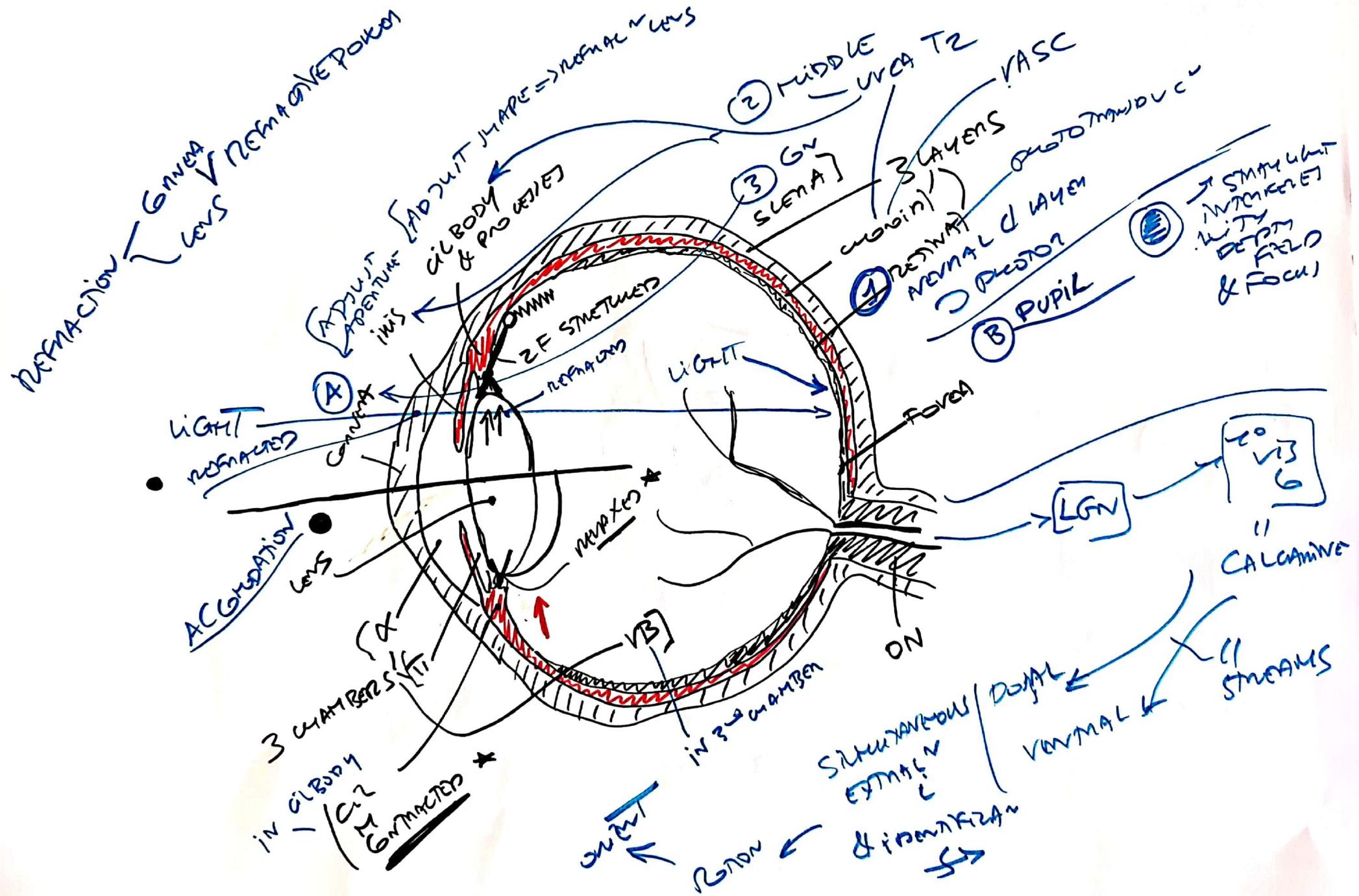
UVS



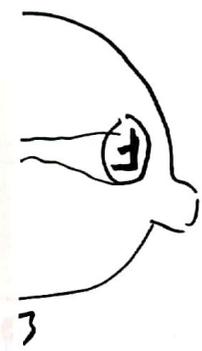
EYE

~~BLOOD SUPPLY~~
~~GENERAL OUTLINE~~

~~6~~
~~50~~



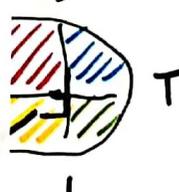
RETINA



3
R



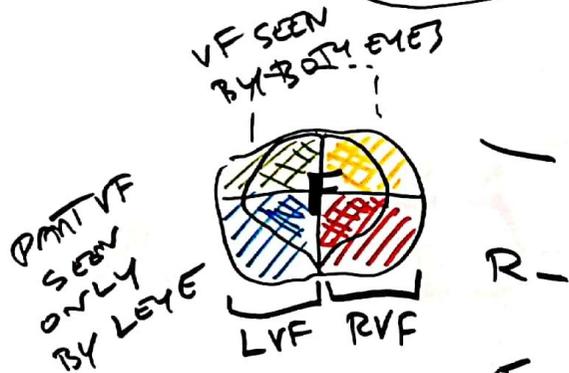
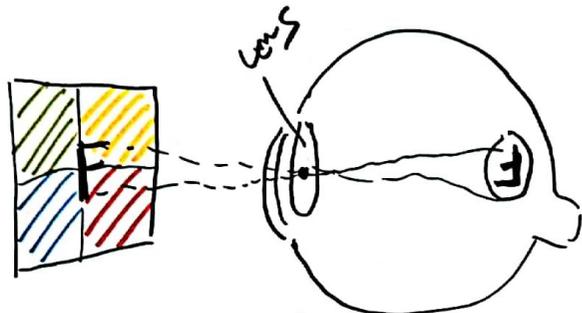
TO RETINA -



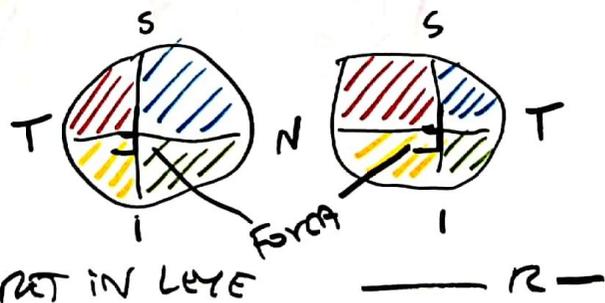
R

REFRACTION
LIGHT
&
PROJECTION
OF VF
ONTO
RETINA
T = TEMPORAL
N = NASAL

GLASS & LENS
PROJEC VF ONTO RETINA
REVERSED & INVERTED



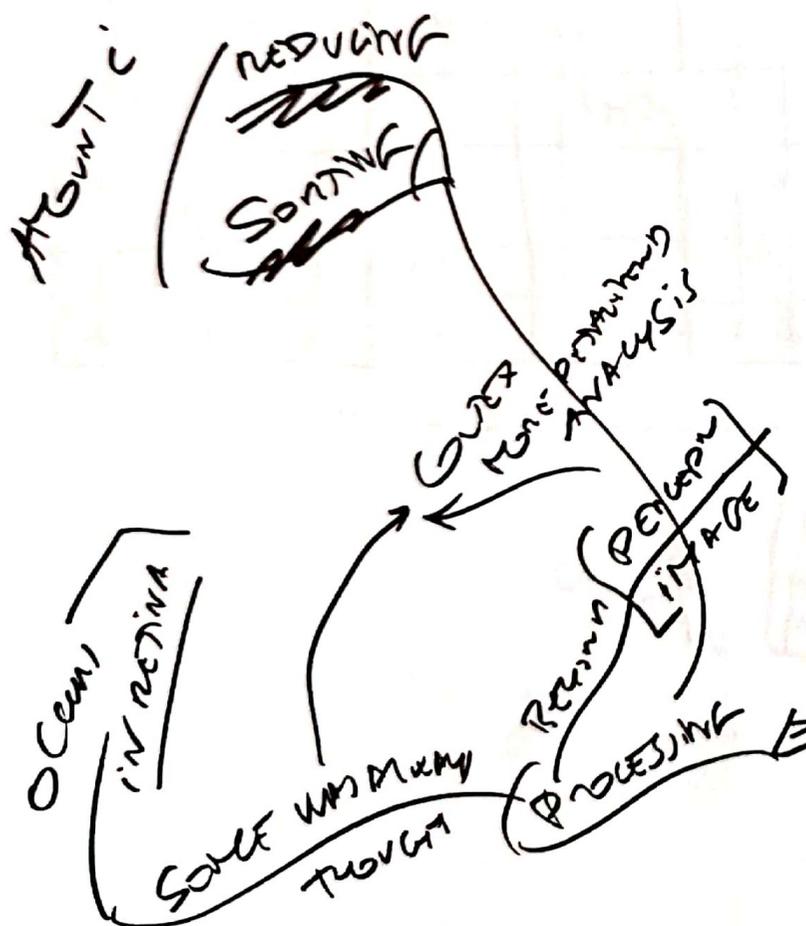
- PROJECTION OF VF TO RETINA -



REFRACT²
 LIGHT
 &
 PROJECTION
 OF VF
 ONTO
 RETINA
 T = TEMPORAL
 N = NASAL

GLASS & LENS
PROJECⁿ VF ONTO RETINA
REVERSED & INVERTED

About i
 Ret → wave
 TO SENS
 ON RET
 IMP FEAT
 IN ENVIRONMENT



RETINA

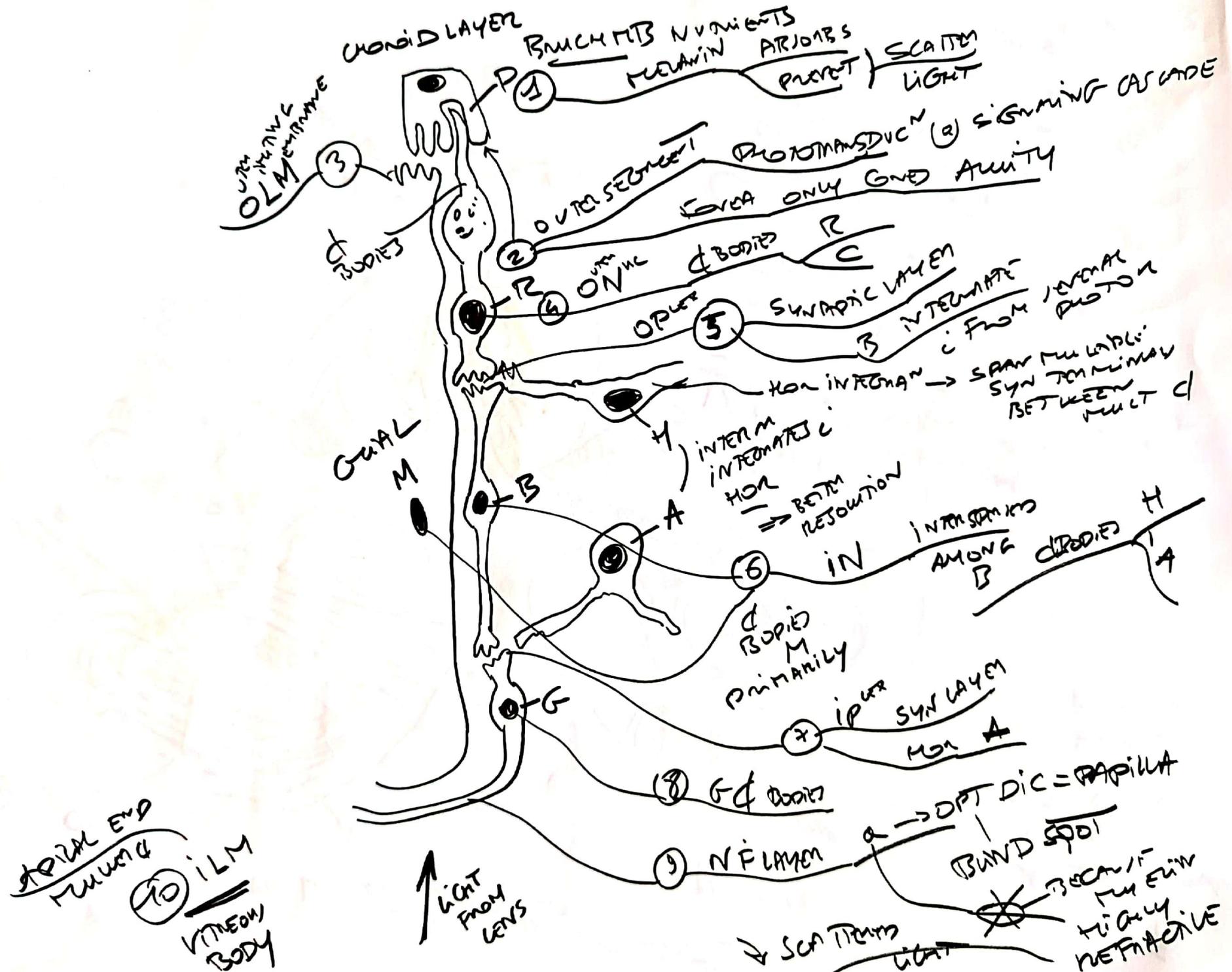
BACKERG
 PROTON &
 1ST SIT PROJEKTING VISI

CAPABLE
 ADAPTING ≠ LIGHTING COND.

CAN SHARPEN IMAGE
 PERCEPT
 USE ≠ GALAXY &
 ≠ TYPE VISI

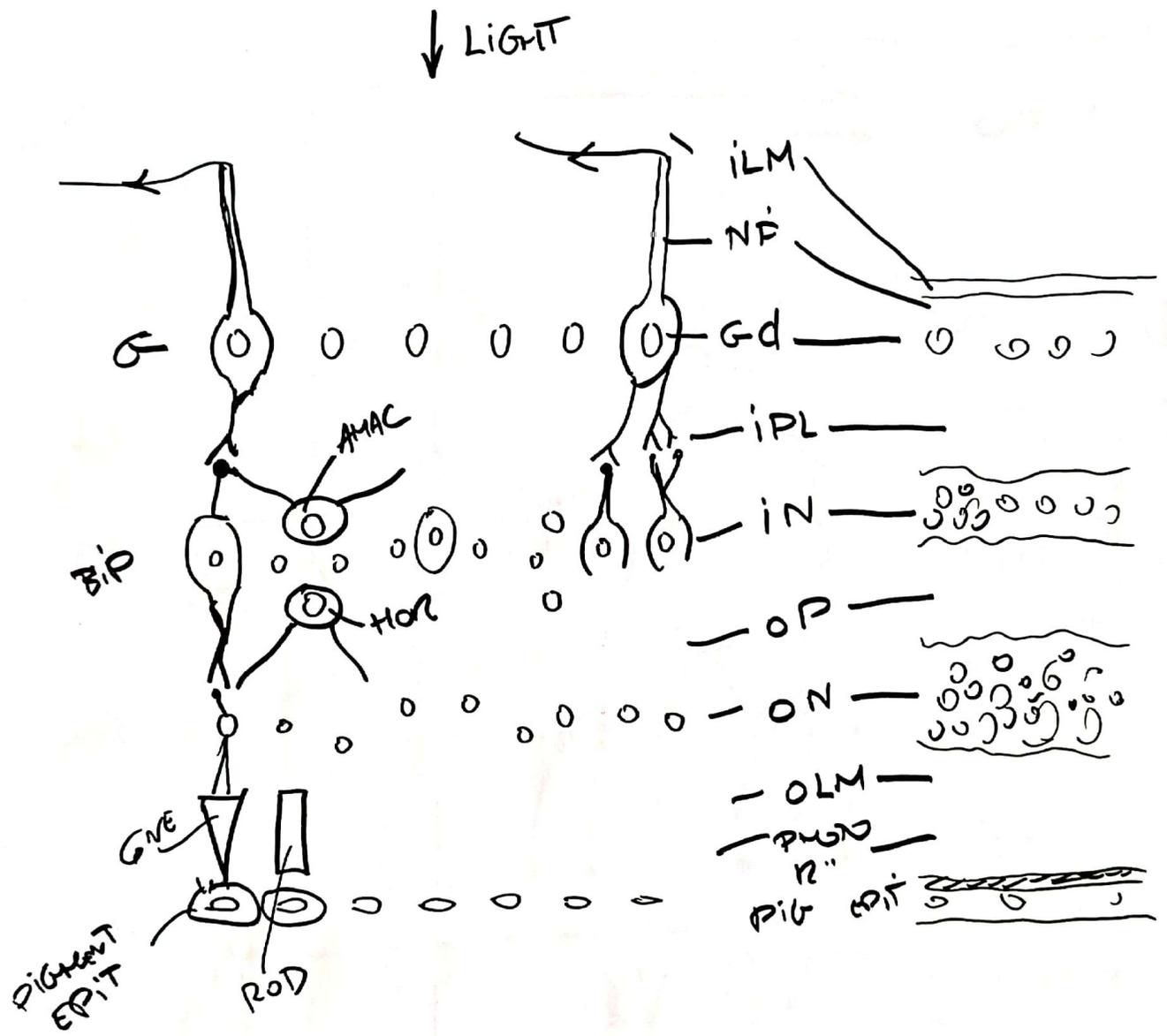
MAIN TYPE & SURTYPE NEURON

SUGGEST



10 LAYERS
RETINA

Müller
NOT SHOWN



Great $\Delta / BP = 1/1$

HIGH ACUITY
LOW SENSITIVITY

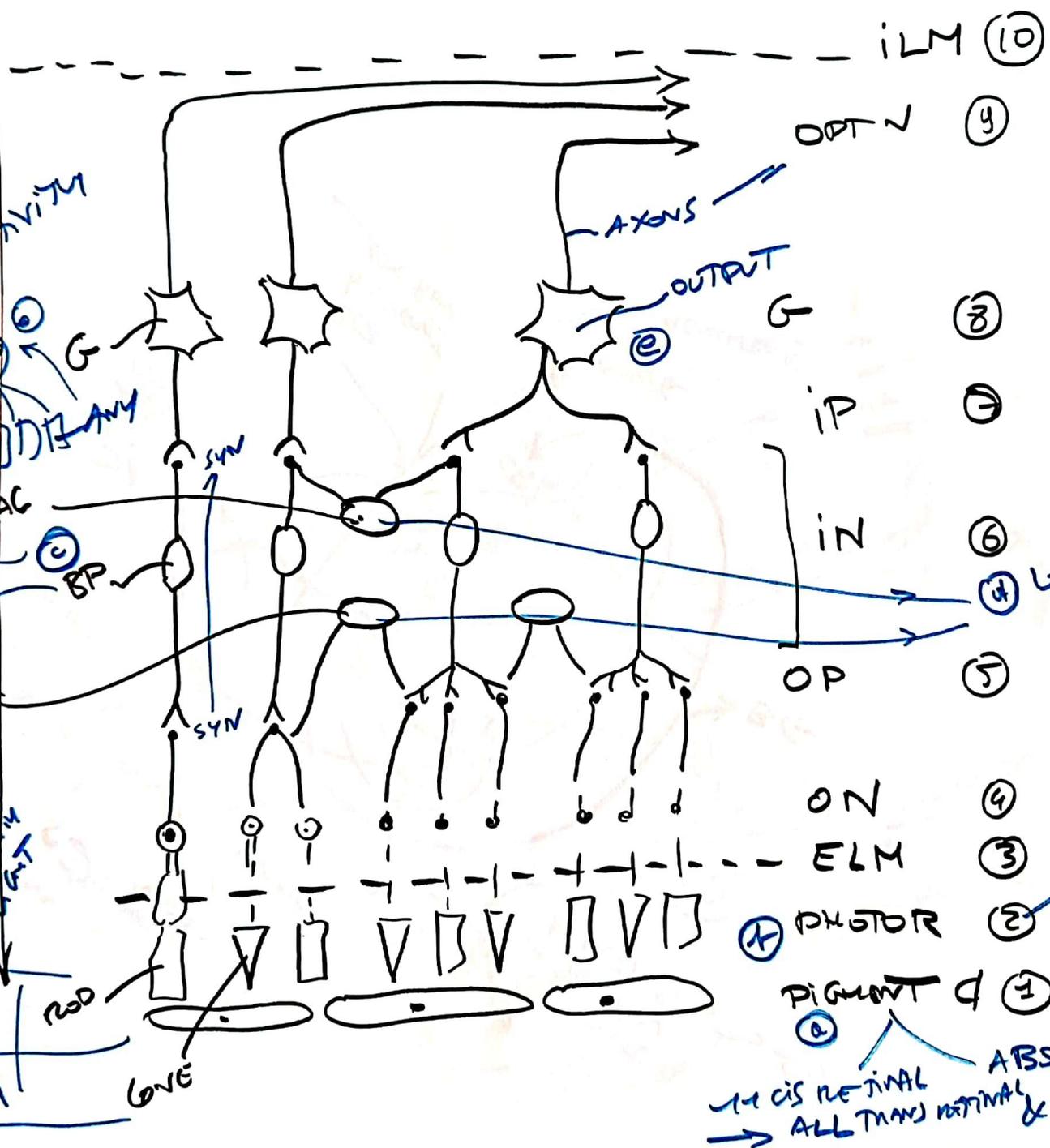
LIGHT
QUANTUM SENSITIVITY
LET/ACUITY (BP)
ANY

SINGLE (G)
SINGLE (BP)
FEW Δ

SLOW

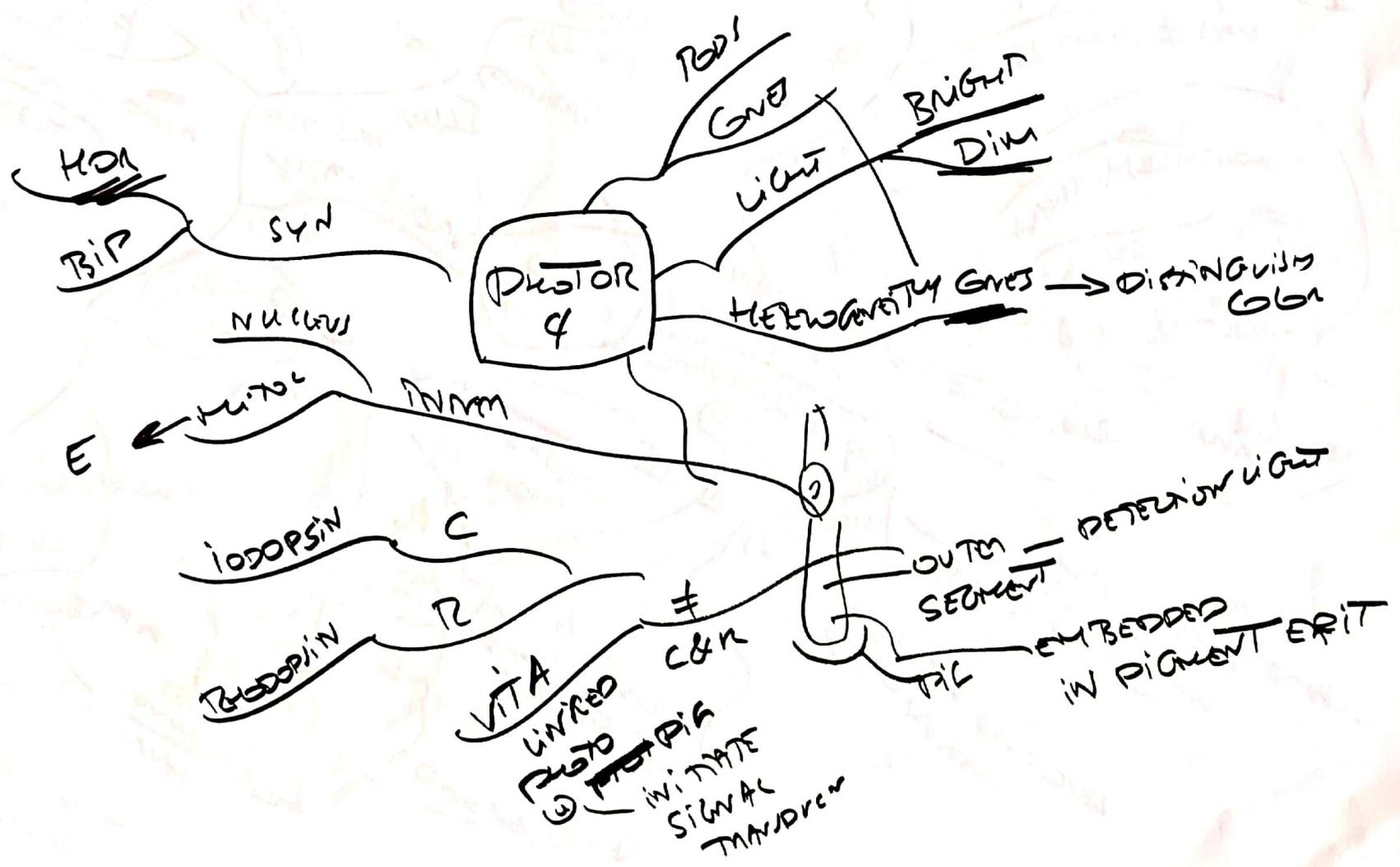
DARK ADAPTATION
ACUITY
LOW SENSITIVITY
LIGHT
HIGH NIGHT
HIGH DAY

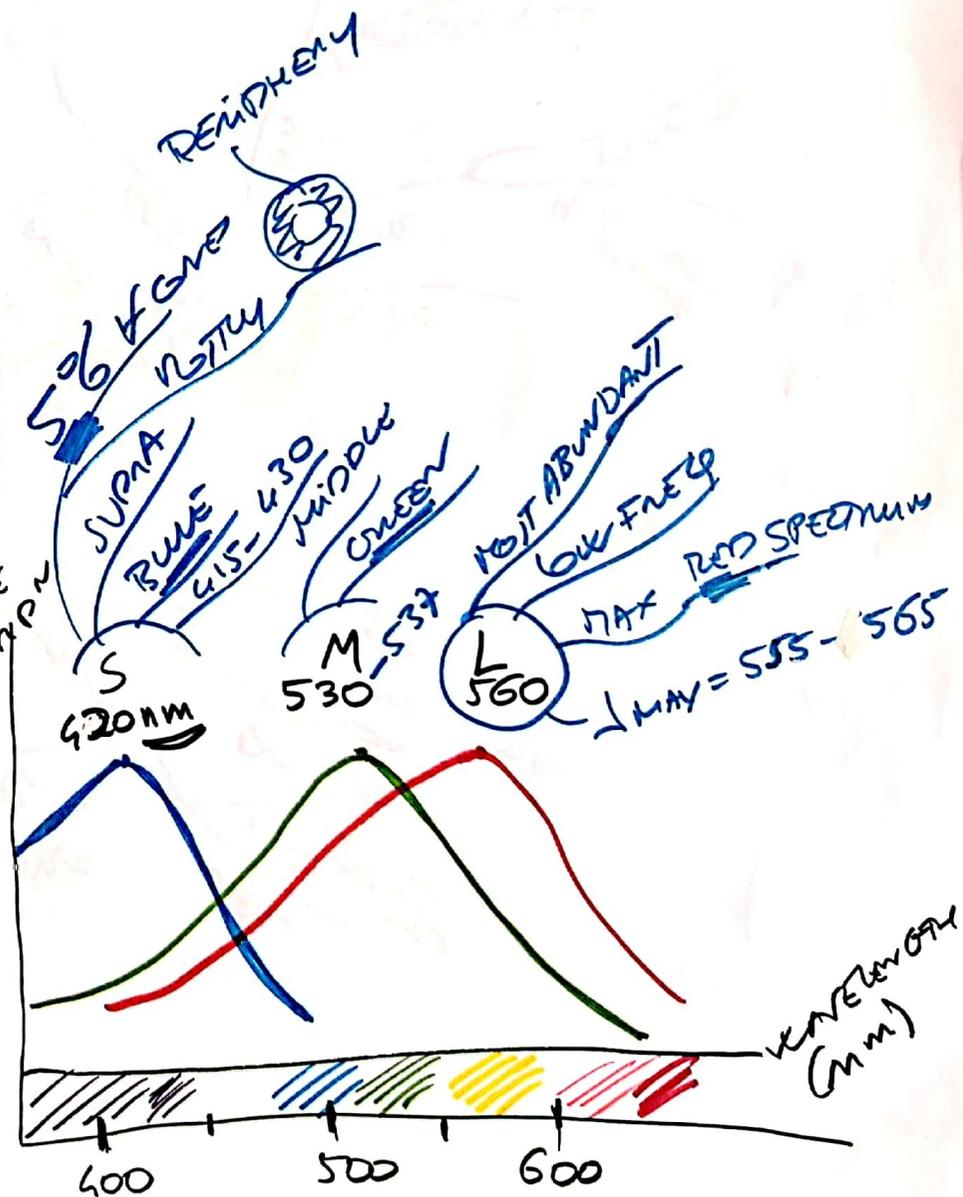
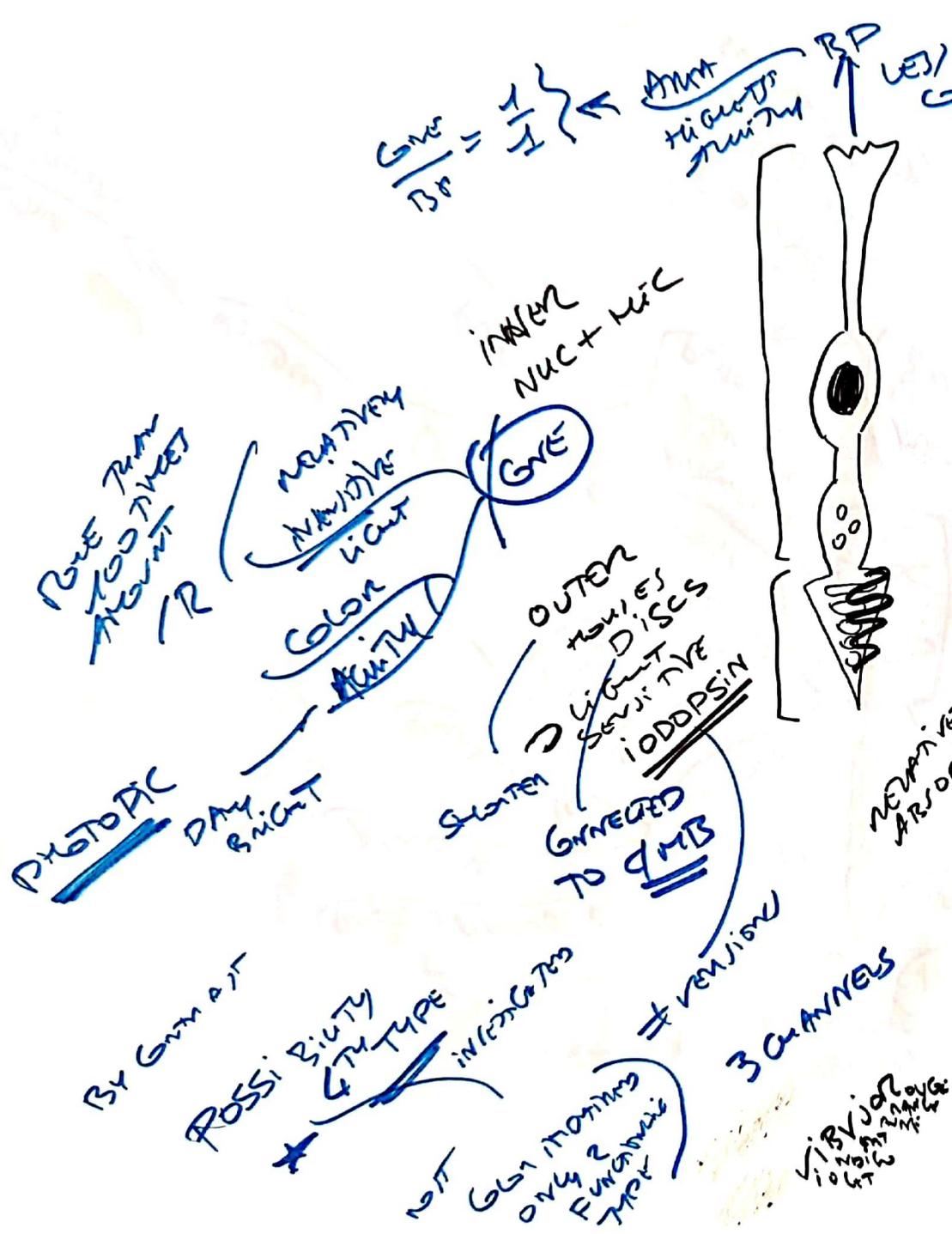
| | |
|------------|-------|
| YES | NO |
| FLAT | LAPSE |
| HIGH GREAT | LOWER |



~~OPTIC NERVE~~
BUND SPOT

ALL TRANS RETINAL & PRODUCE SCATTER LIGHT
ABSORB SOME LIGHT



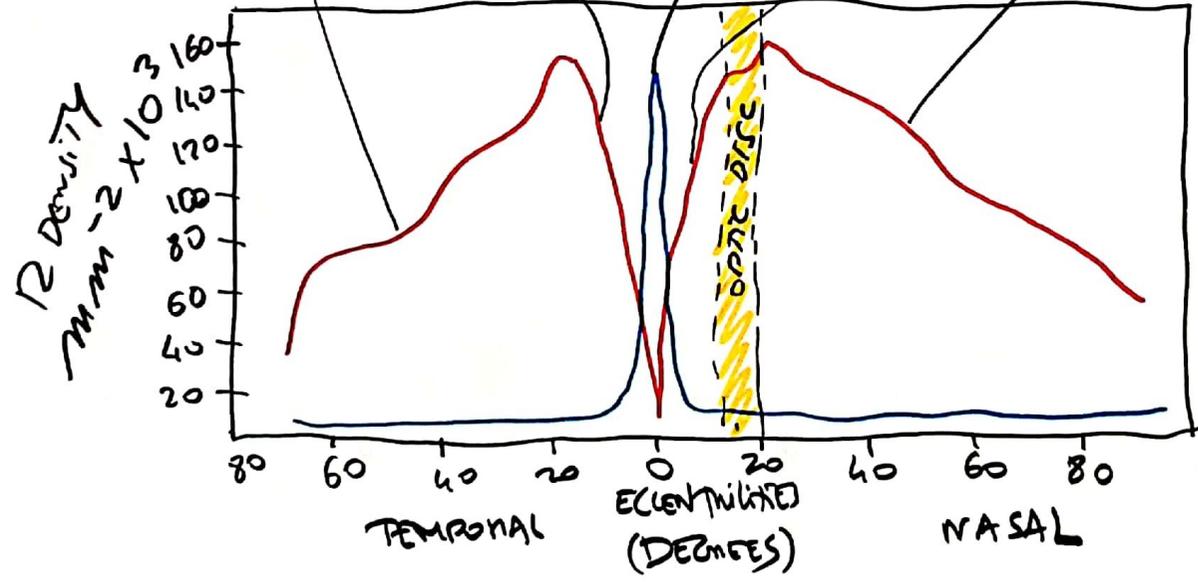
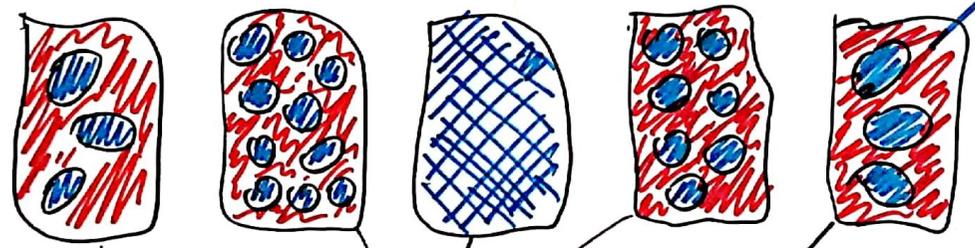


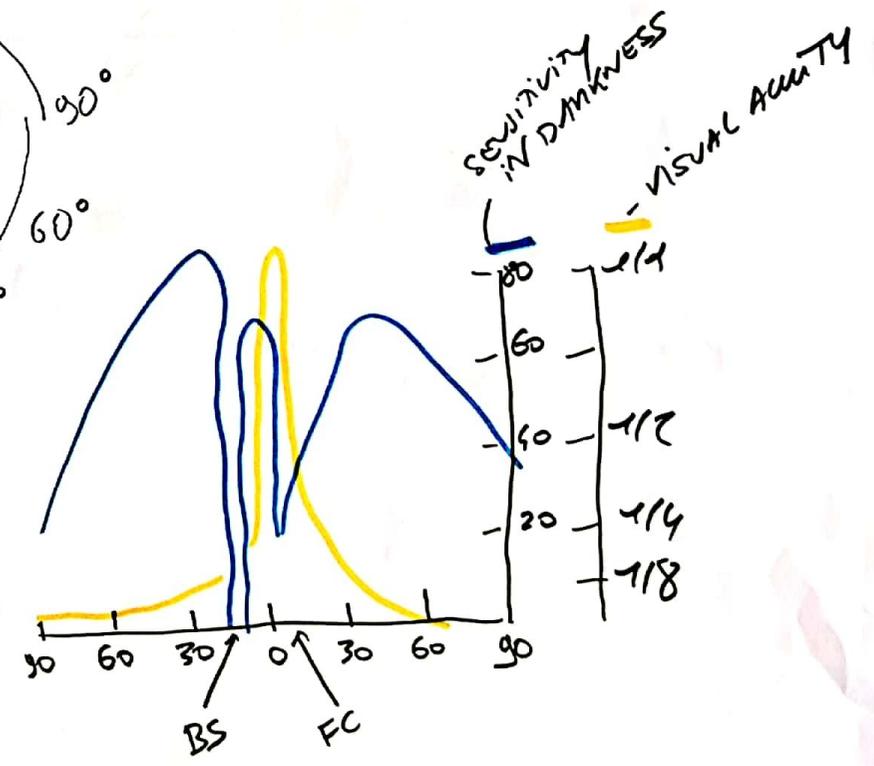
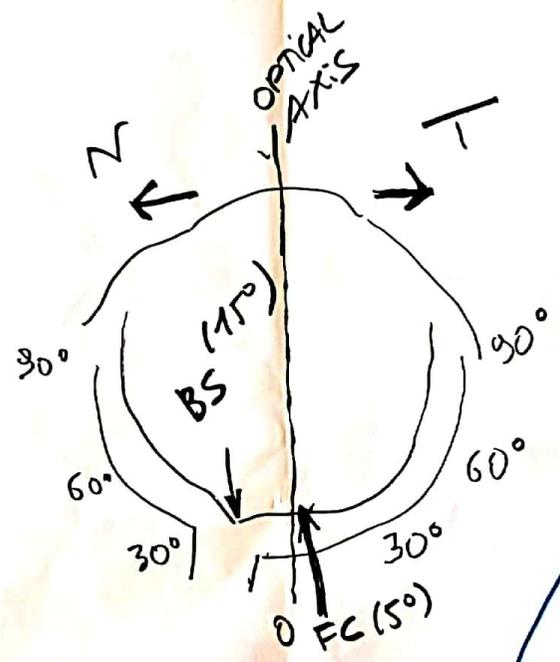
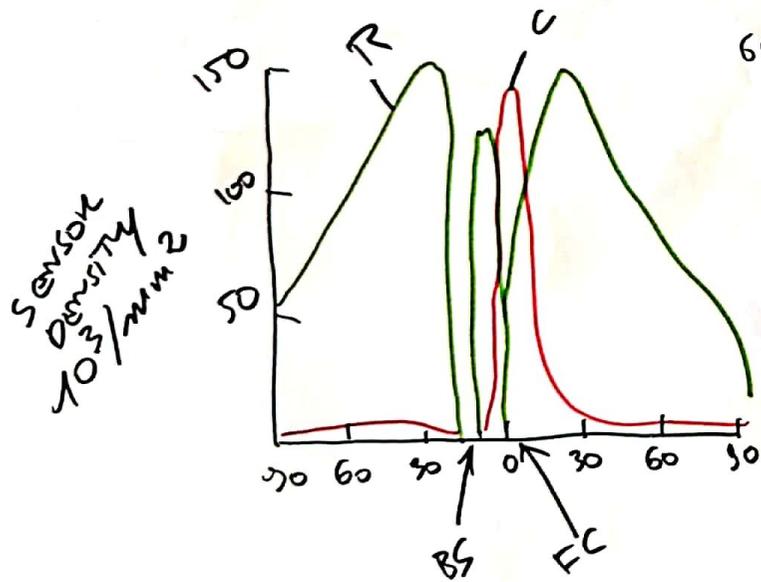
DISTRIBUTION OF RODS & CONES IN RETINA



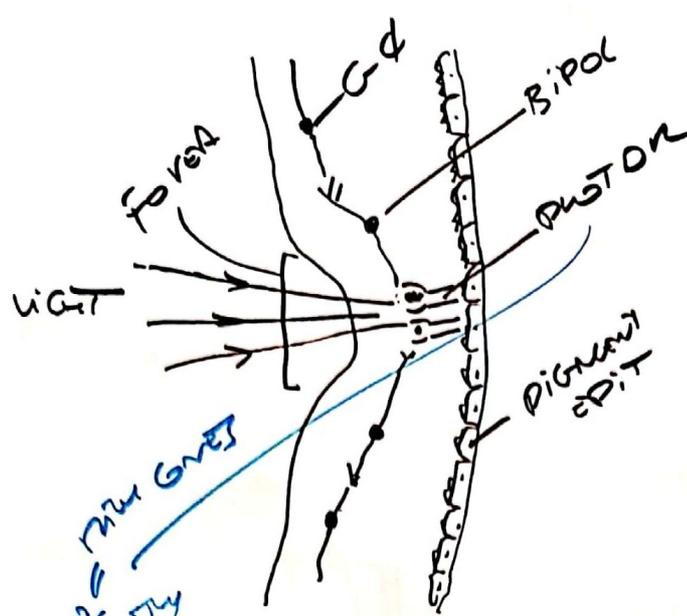
ONLY GVD \rightarrow HUMAN VISION SPECIFIC OPTIC CONDITION
~~DIY~~
 FOVEA

LOW LIGHT CONDITION



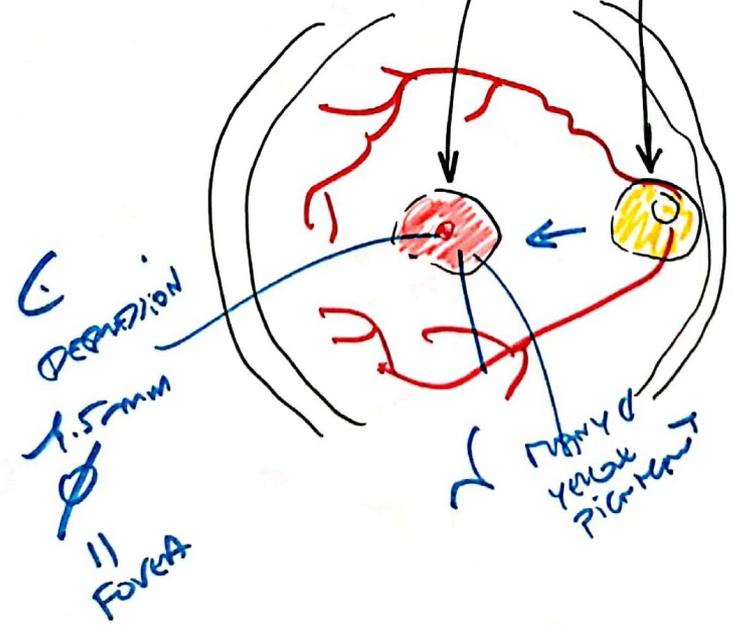
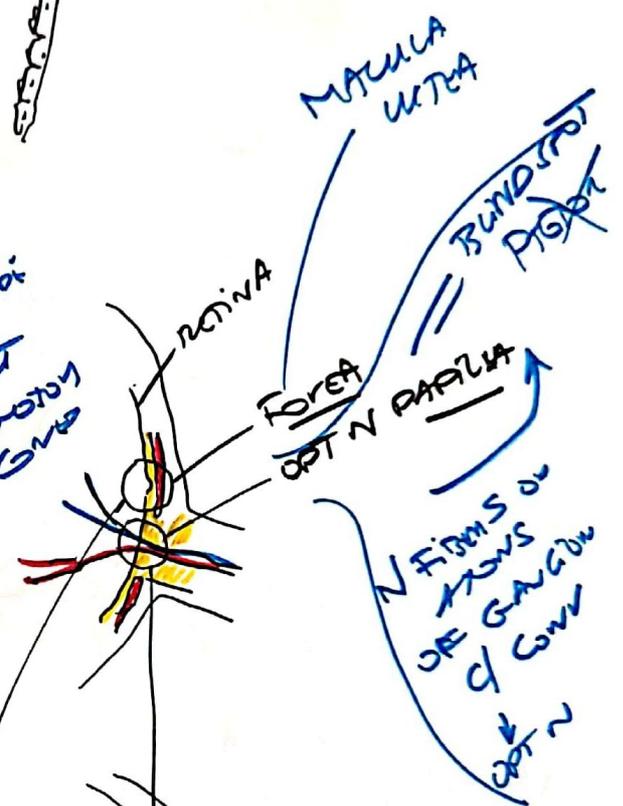


7
OVERVIEW
RETINA
STRUCTURE
FOVEA &
PAPILLA
SPECIALIZATION



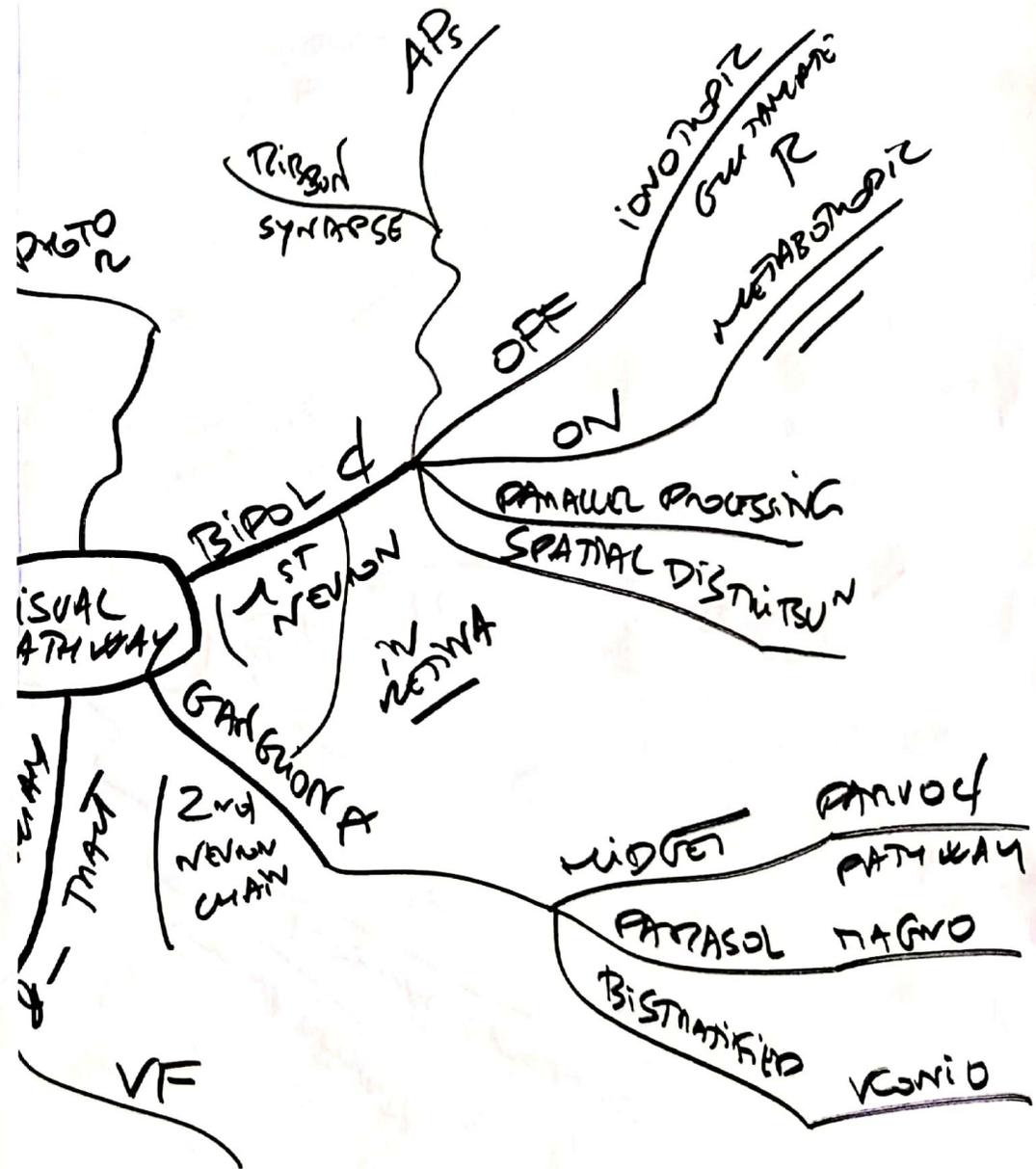
PHOTORECEPTOR
 FACILITY
 MOST LIGHT
 FROM G & R F
 PROJECTS

ALL OF WHICH ARE
 PROJECTING & SIDE
 ⇒ LIGHT CAN PROJECT
 DIRECTLY ON PHOTORECEPTOR

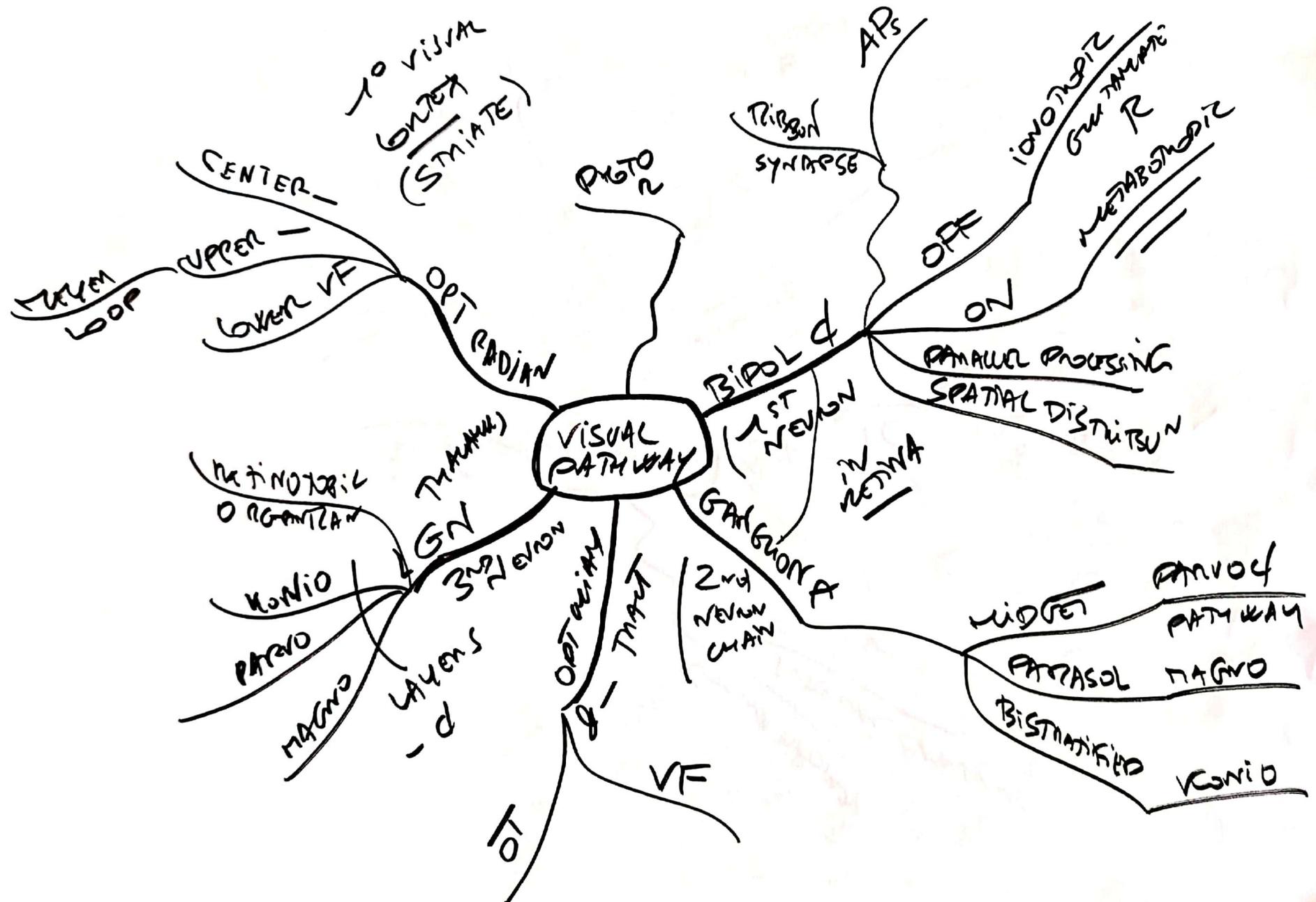


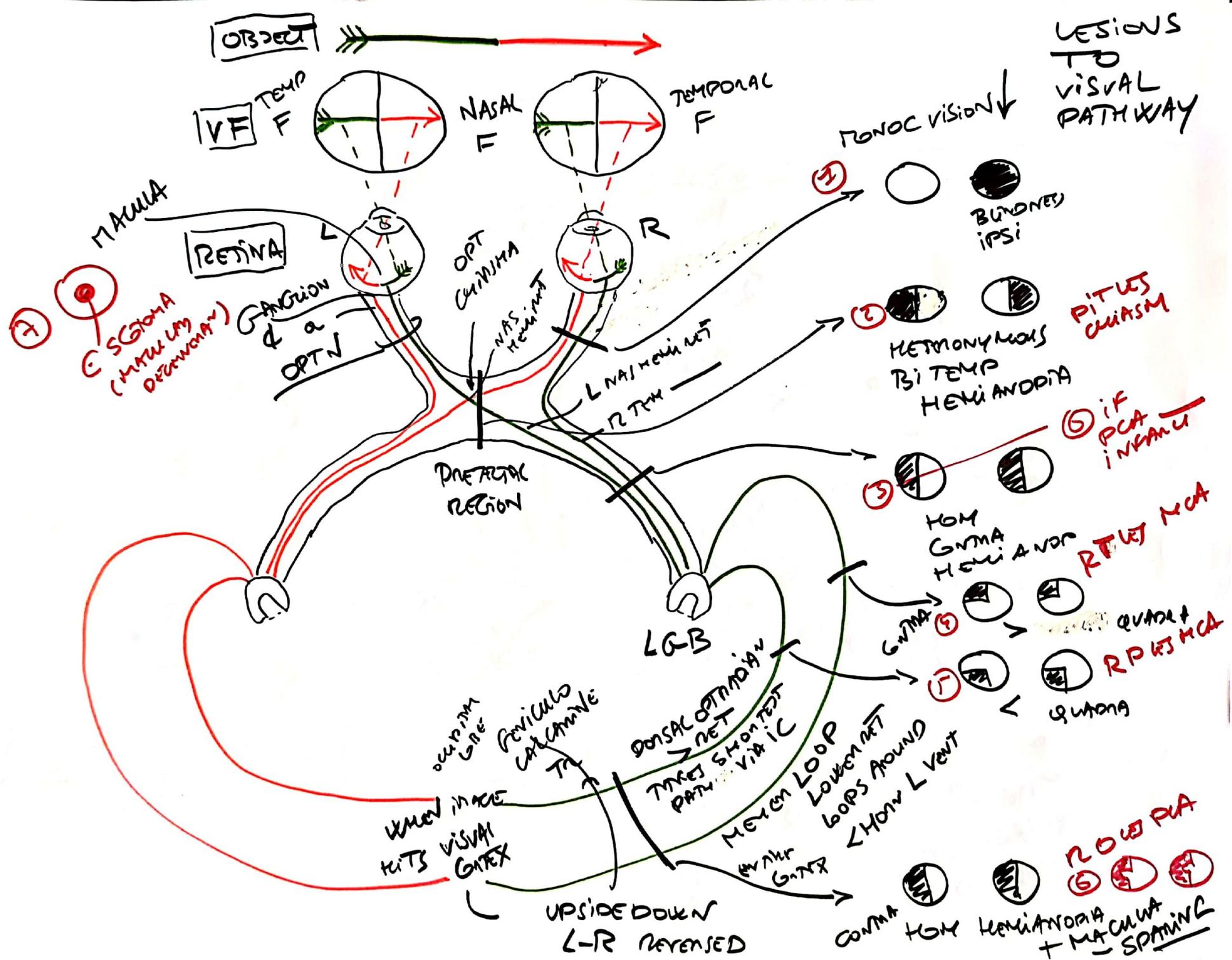
C
 DEPRESSION
 1.5mm
 ||
 FOVEA

MANY OF
 YELLOW
 PIGMENT

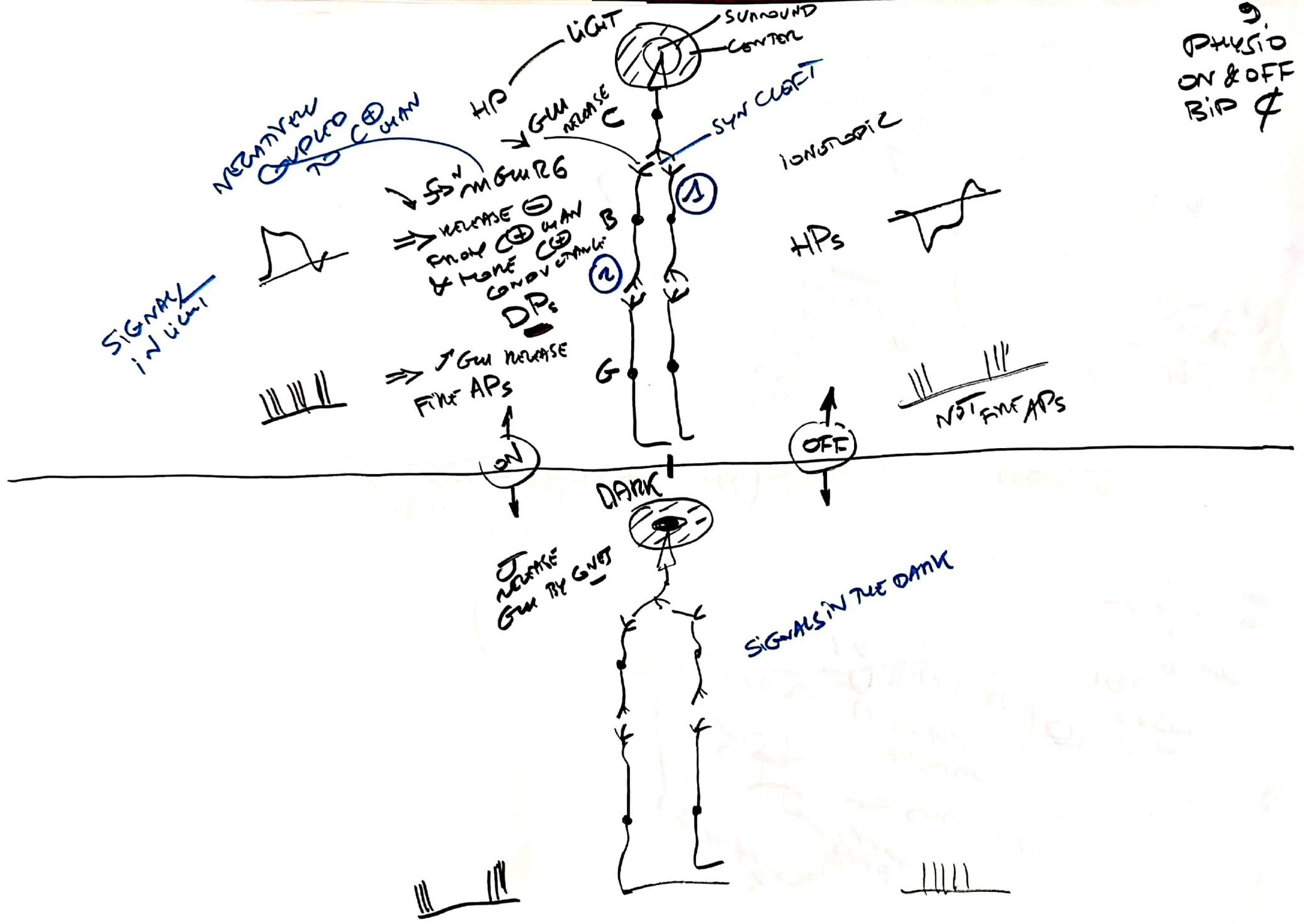


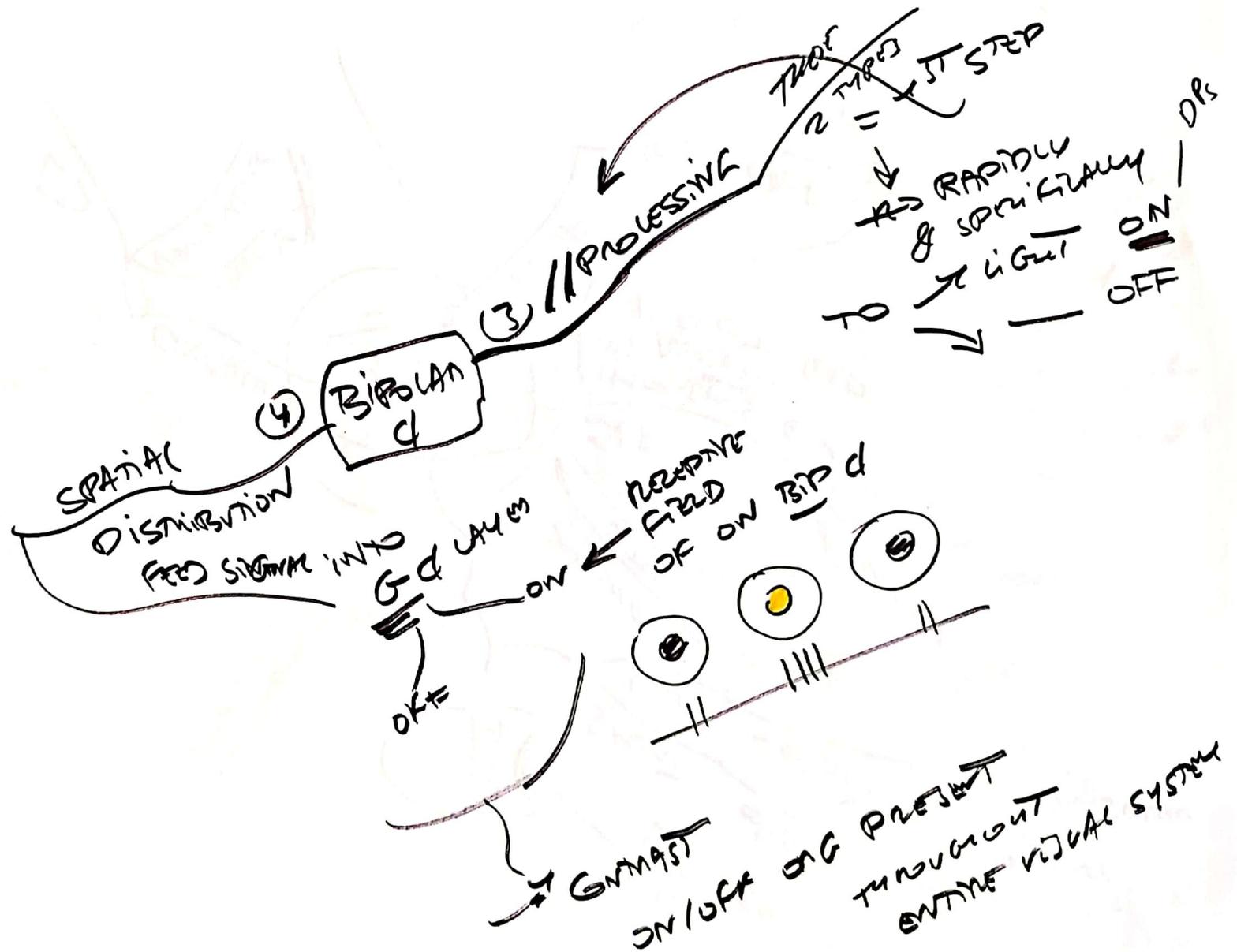
PATHWAY

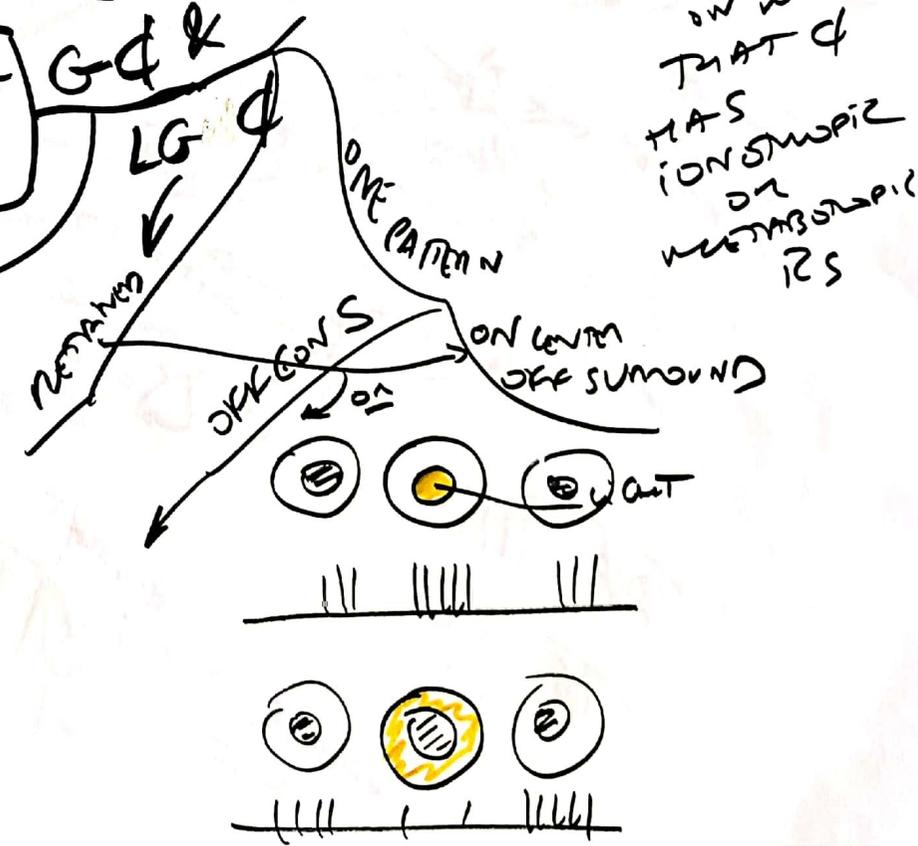
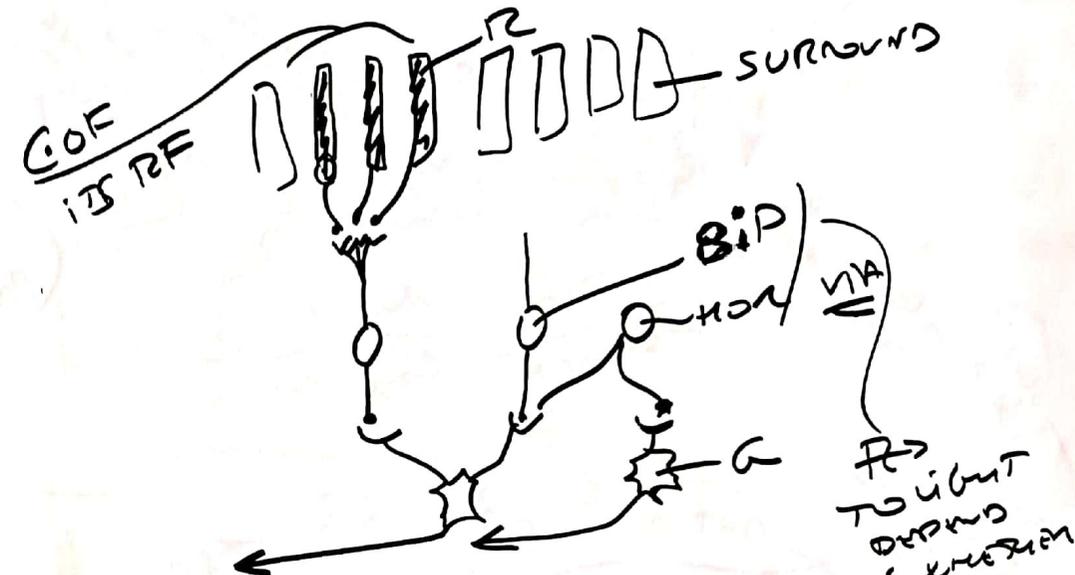
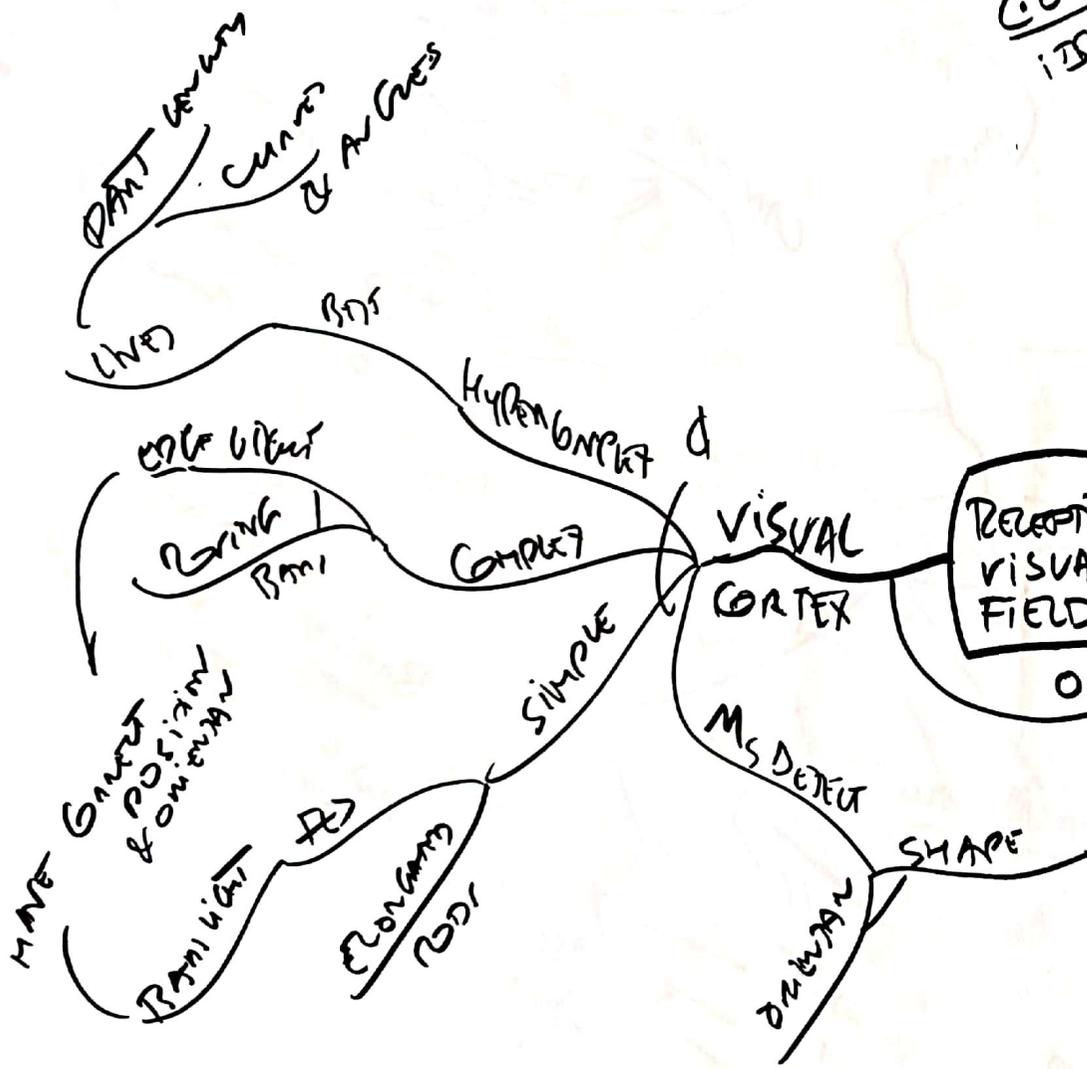




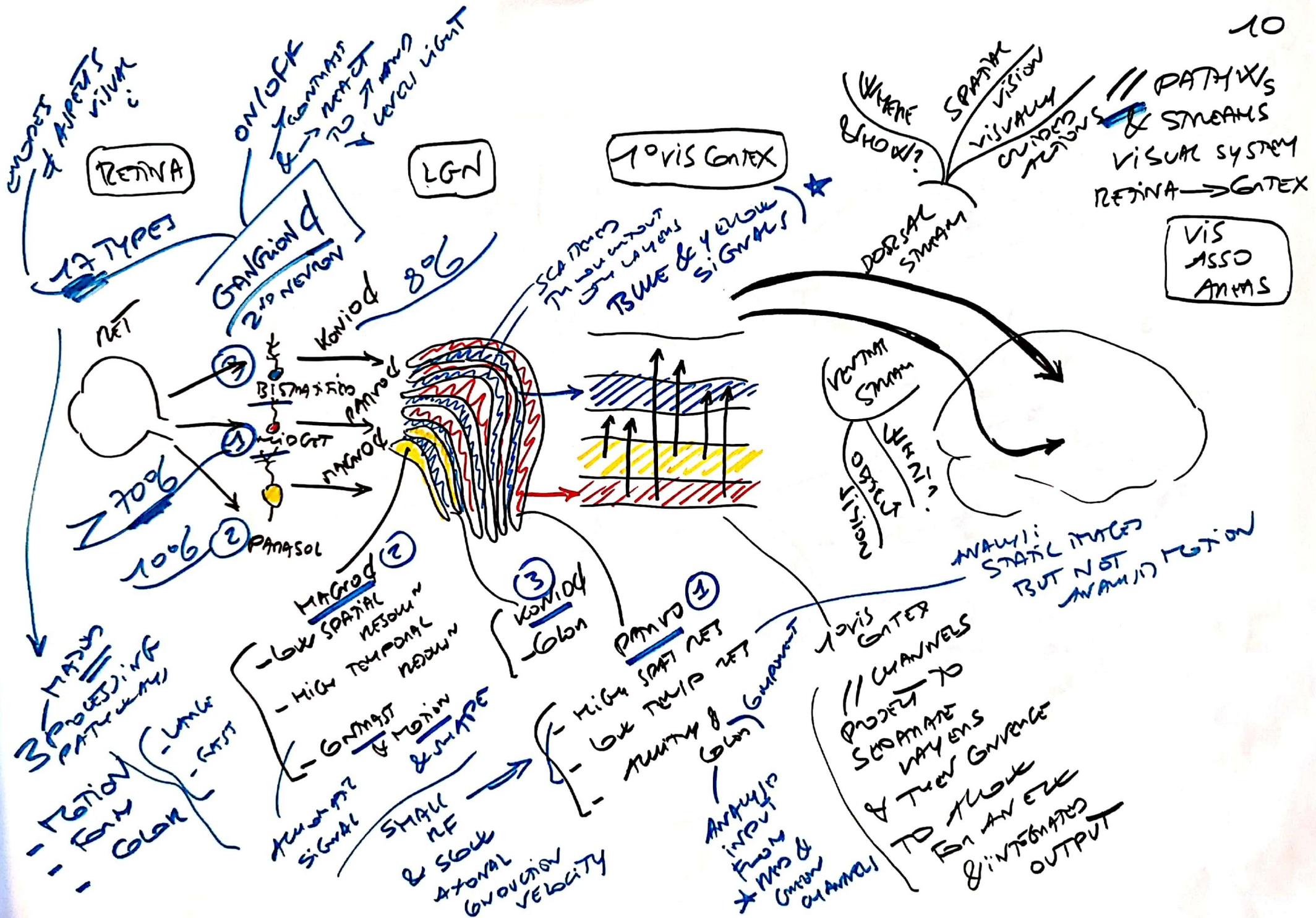
PHYSIO
ON & OFF
BIP &

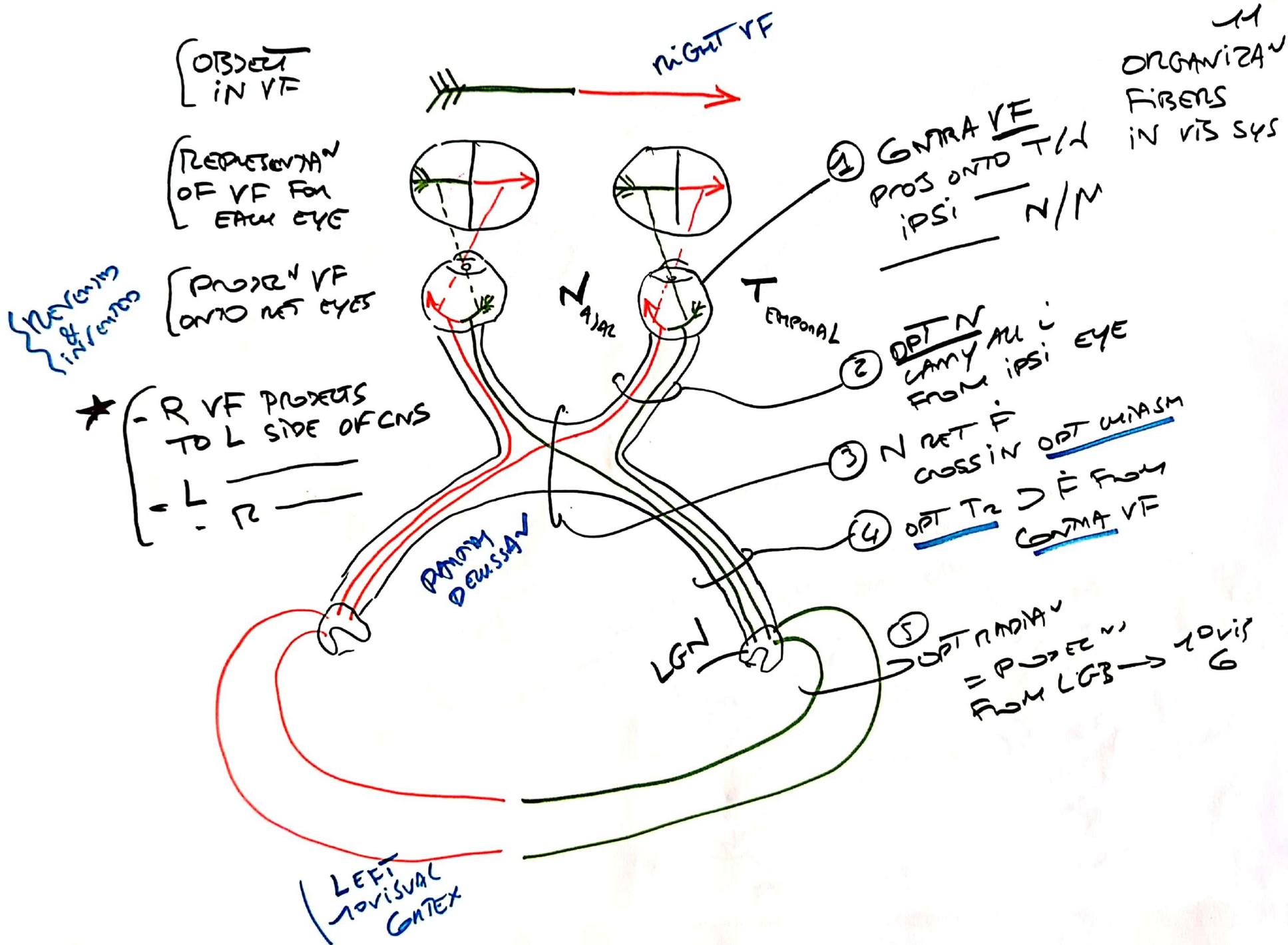


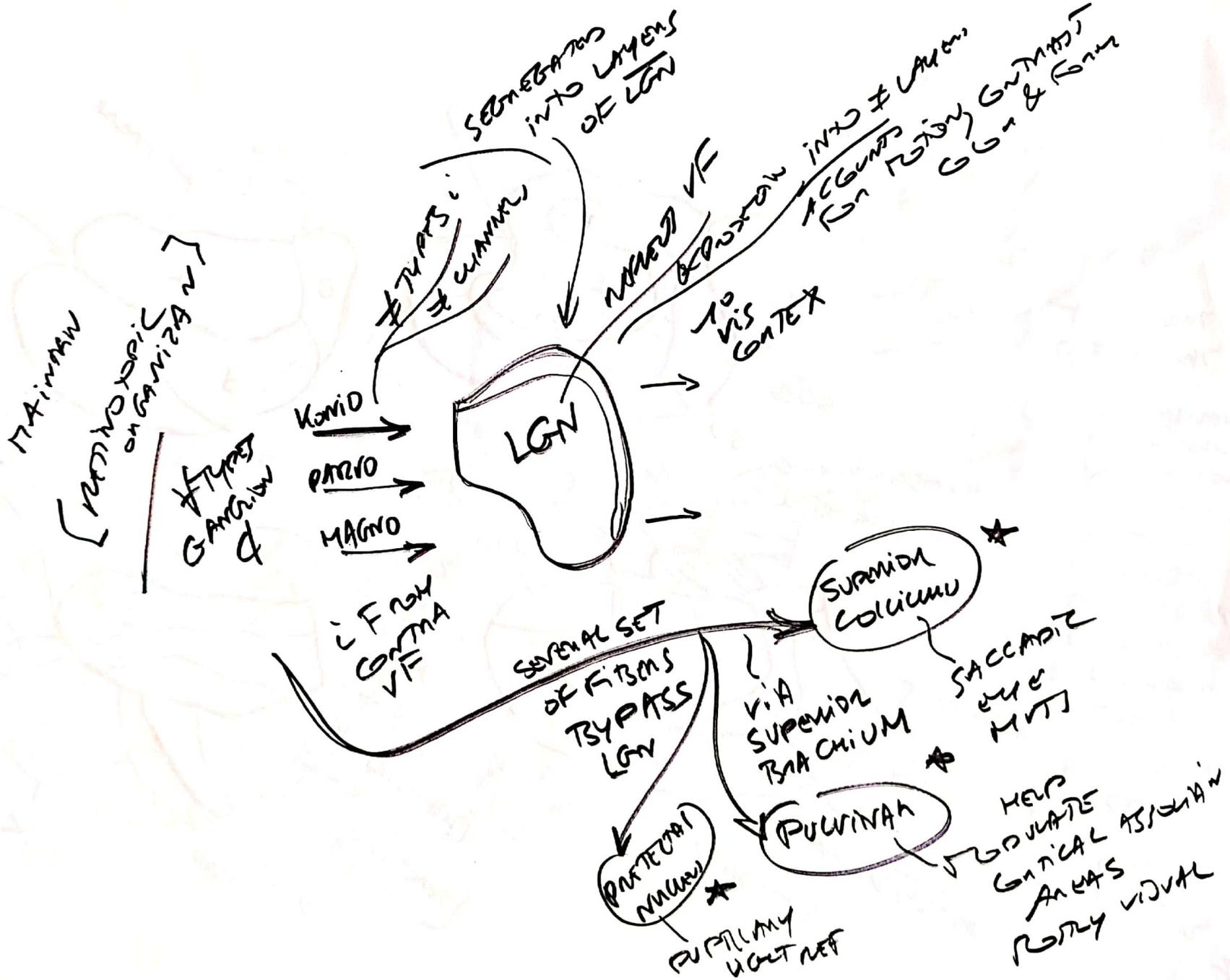


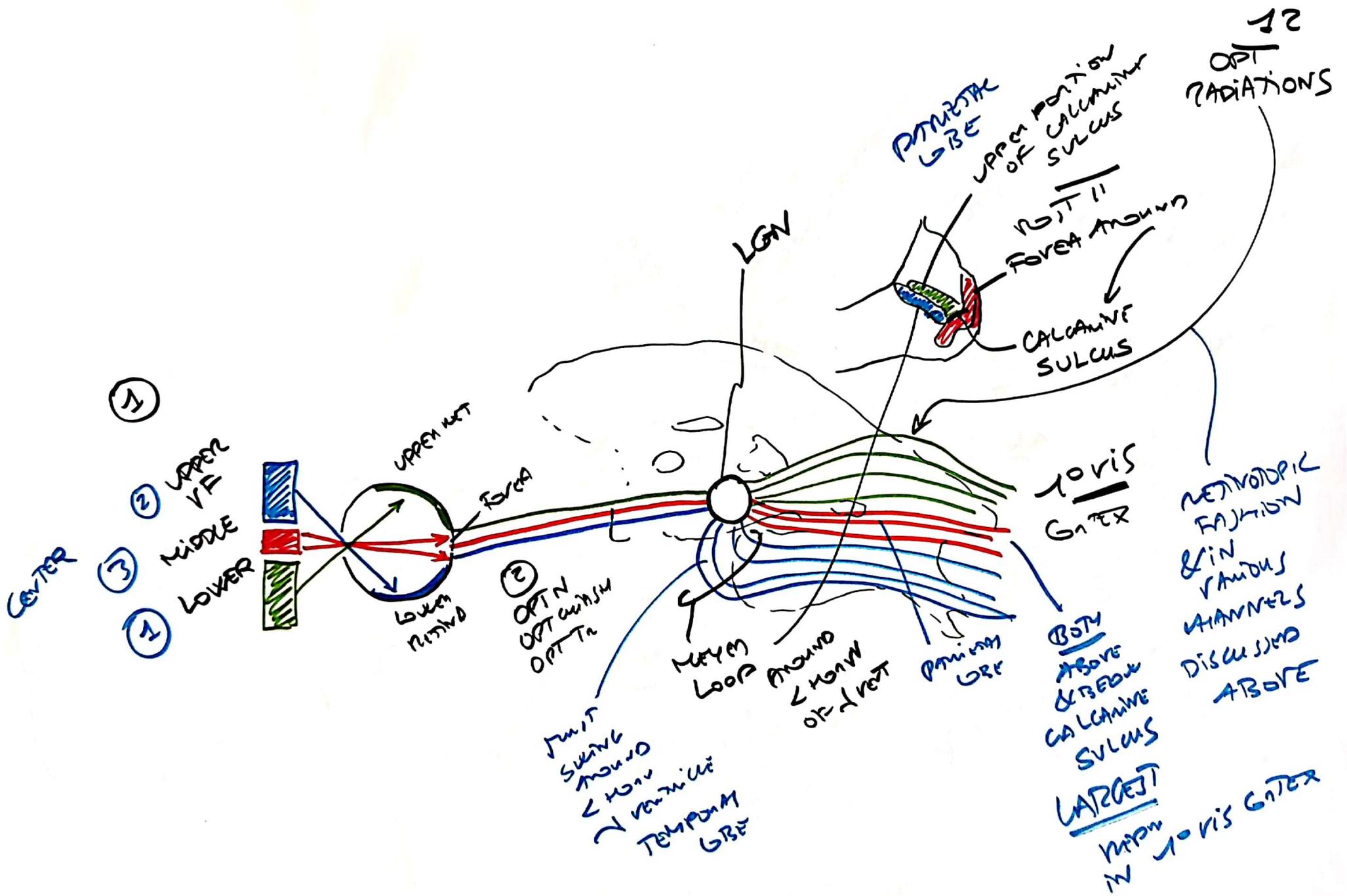


RE TO LIGHT
 DEPENDS
 ON WHETHER
 THAT OF
 HAS
 IONOTROPIC
 OR
 METABOTROPIC
 RS



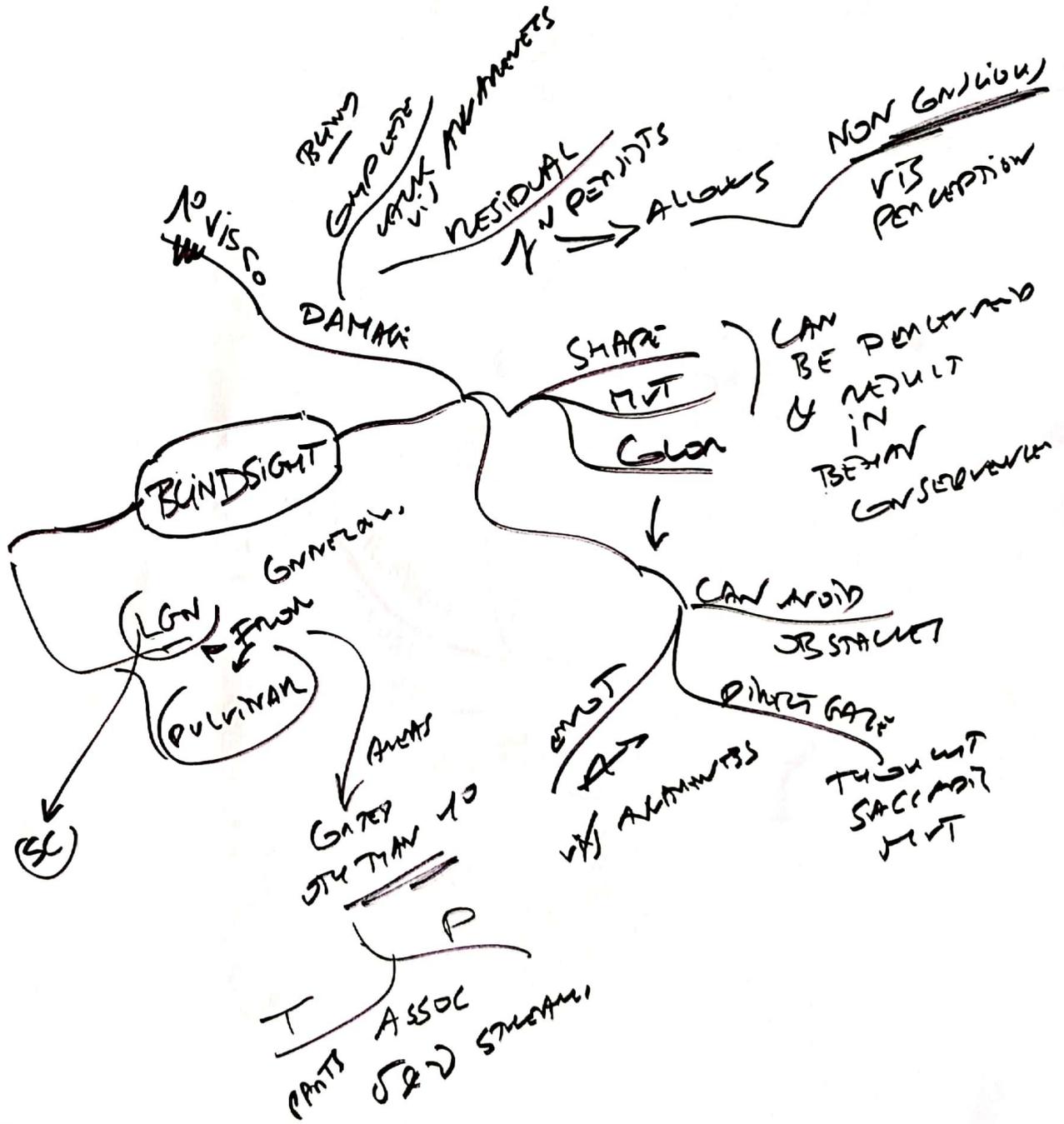




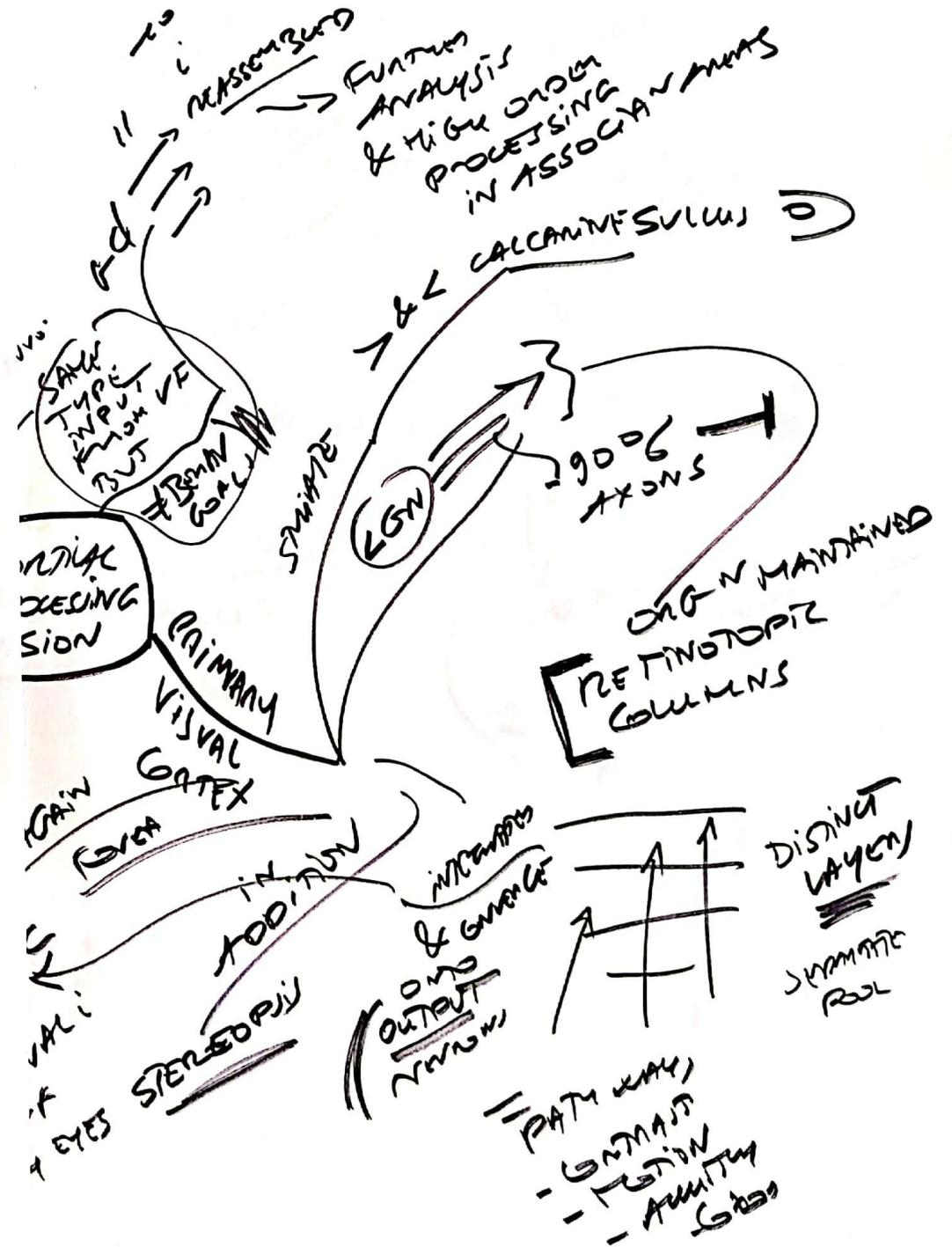


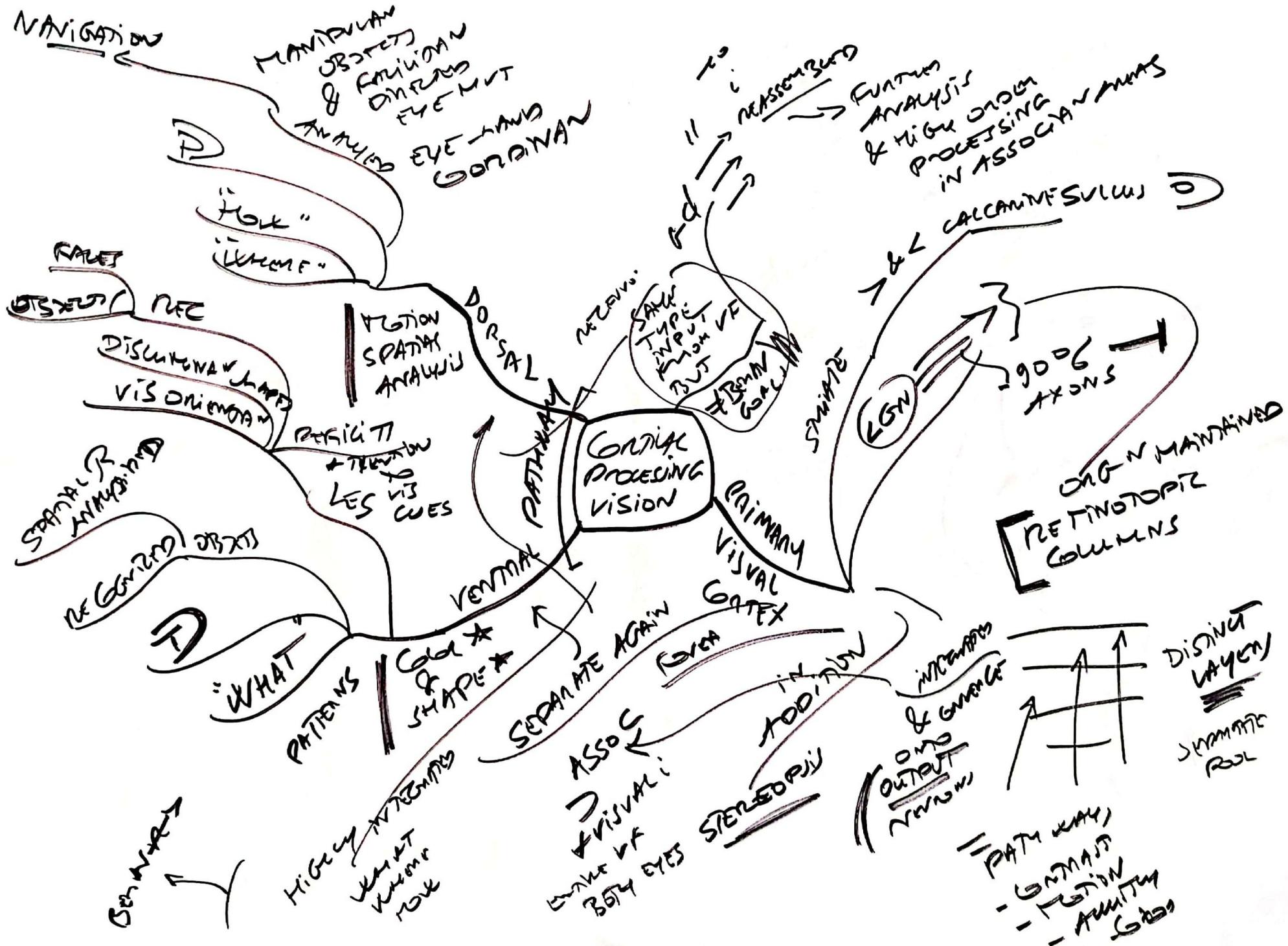


TO REMAIN
NO VIS GUST
(HUBS)

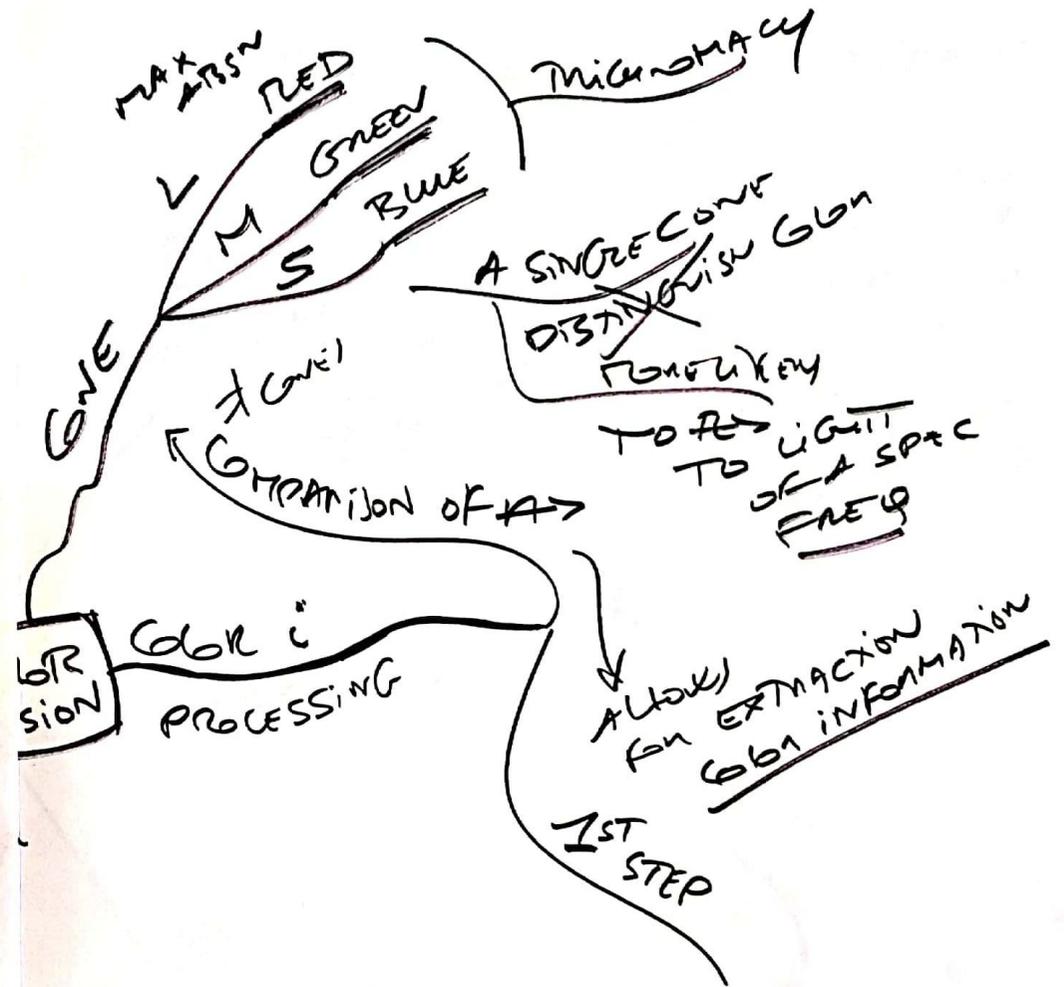


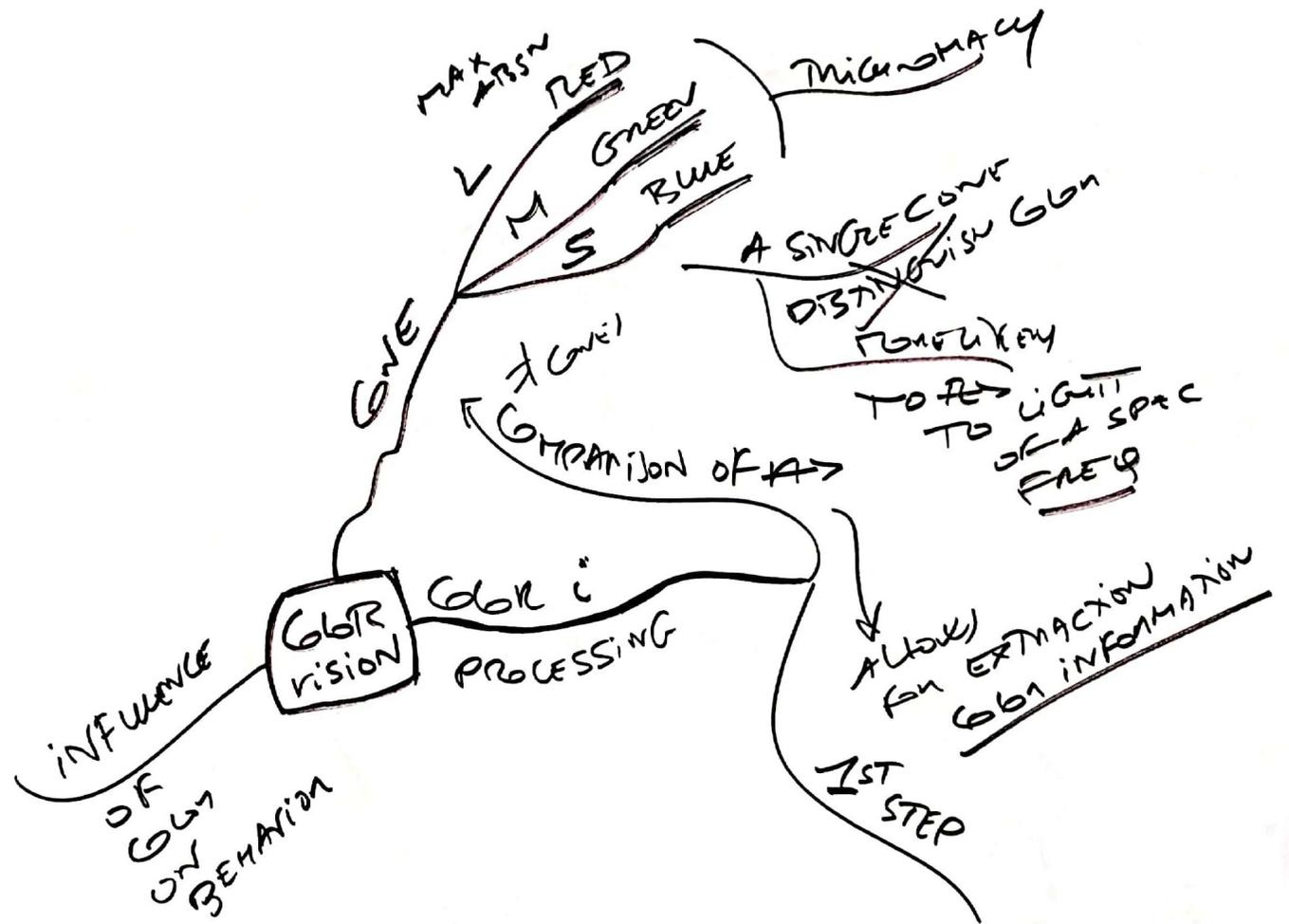
CORTICAL PROCESSING

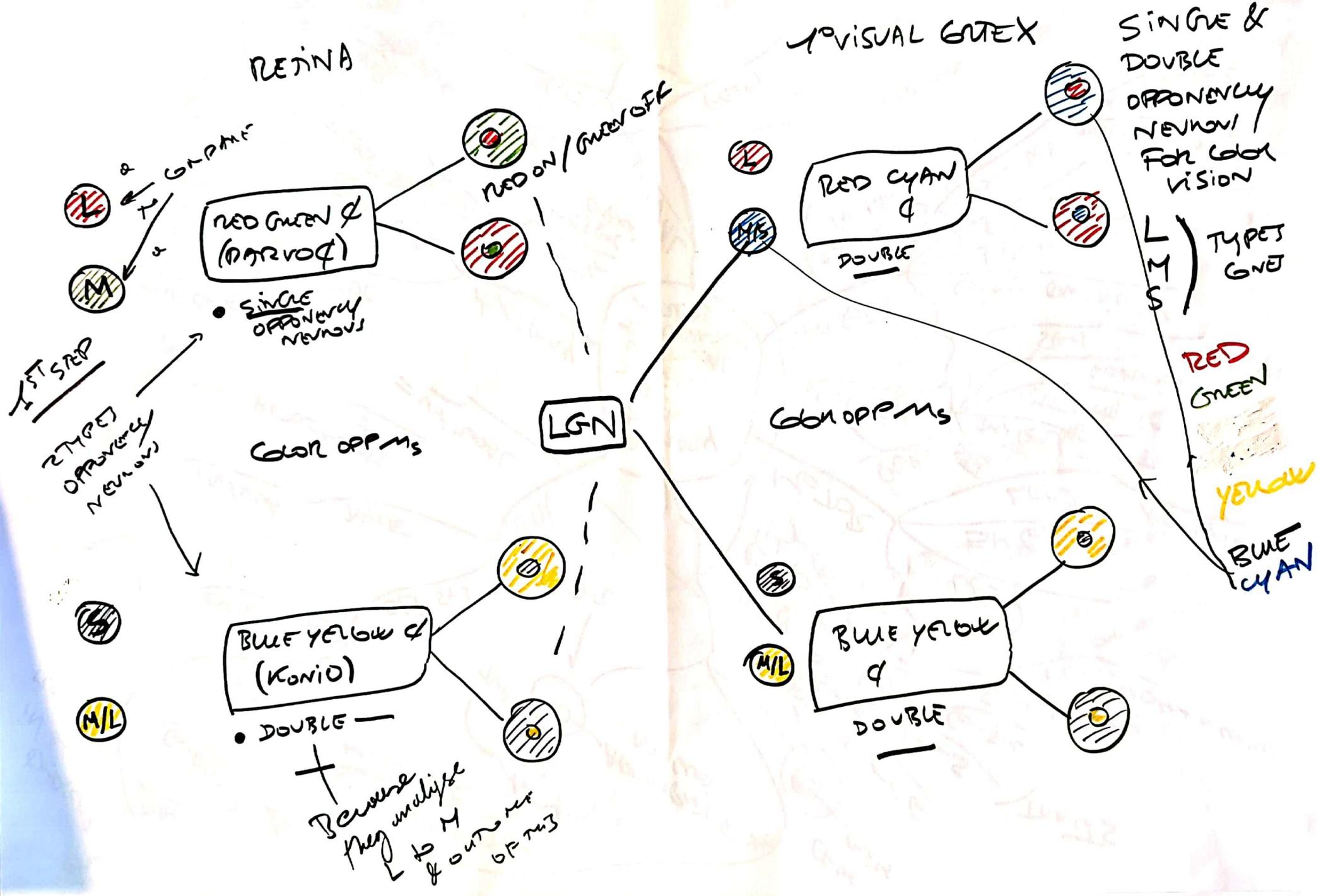


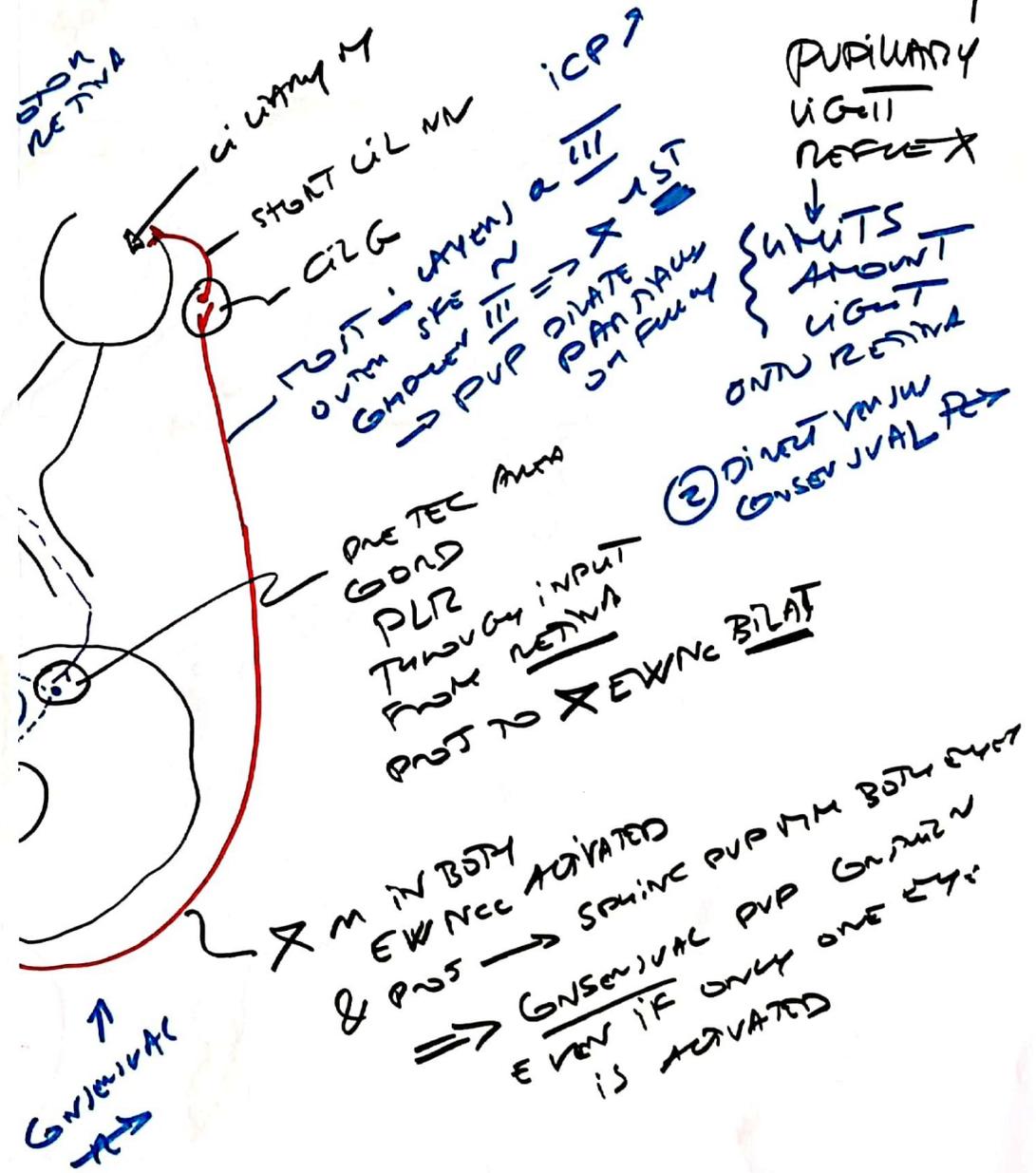


Color vision

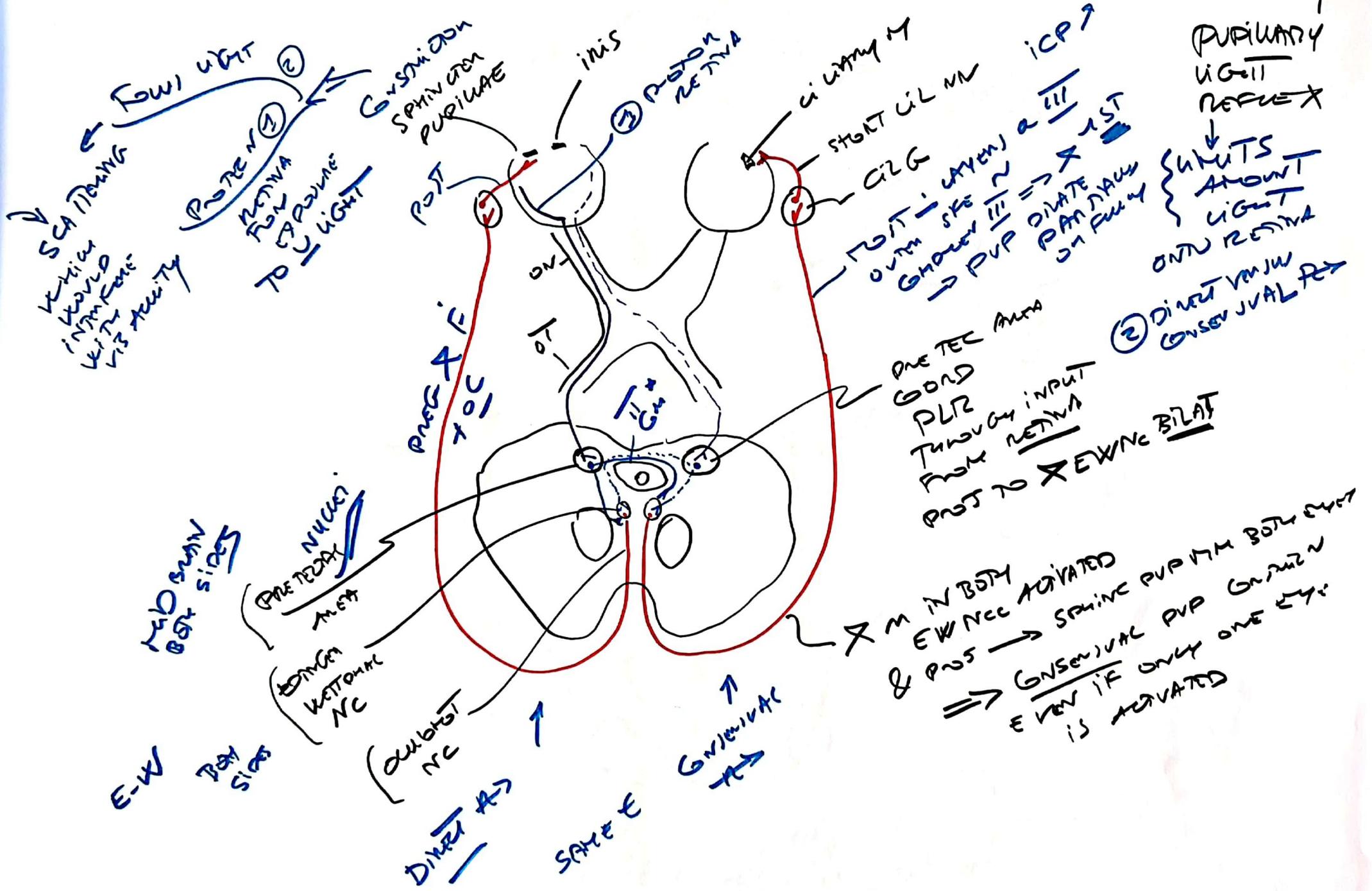


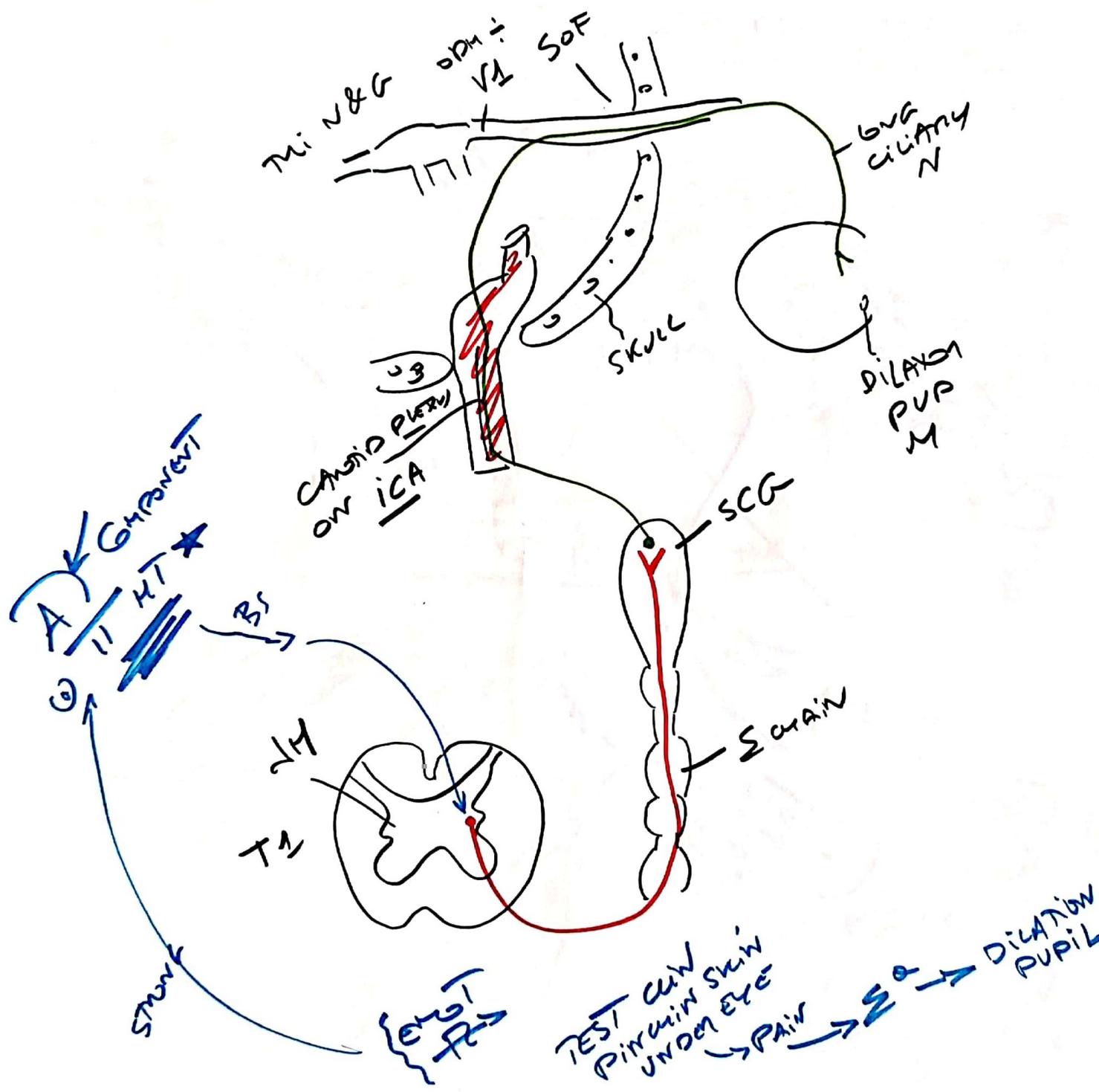




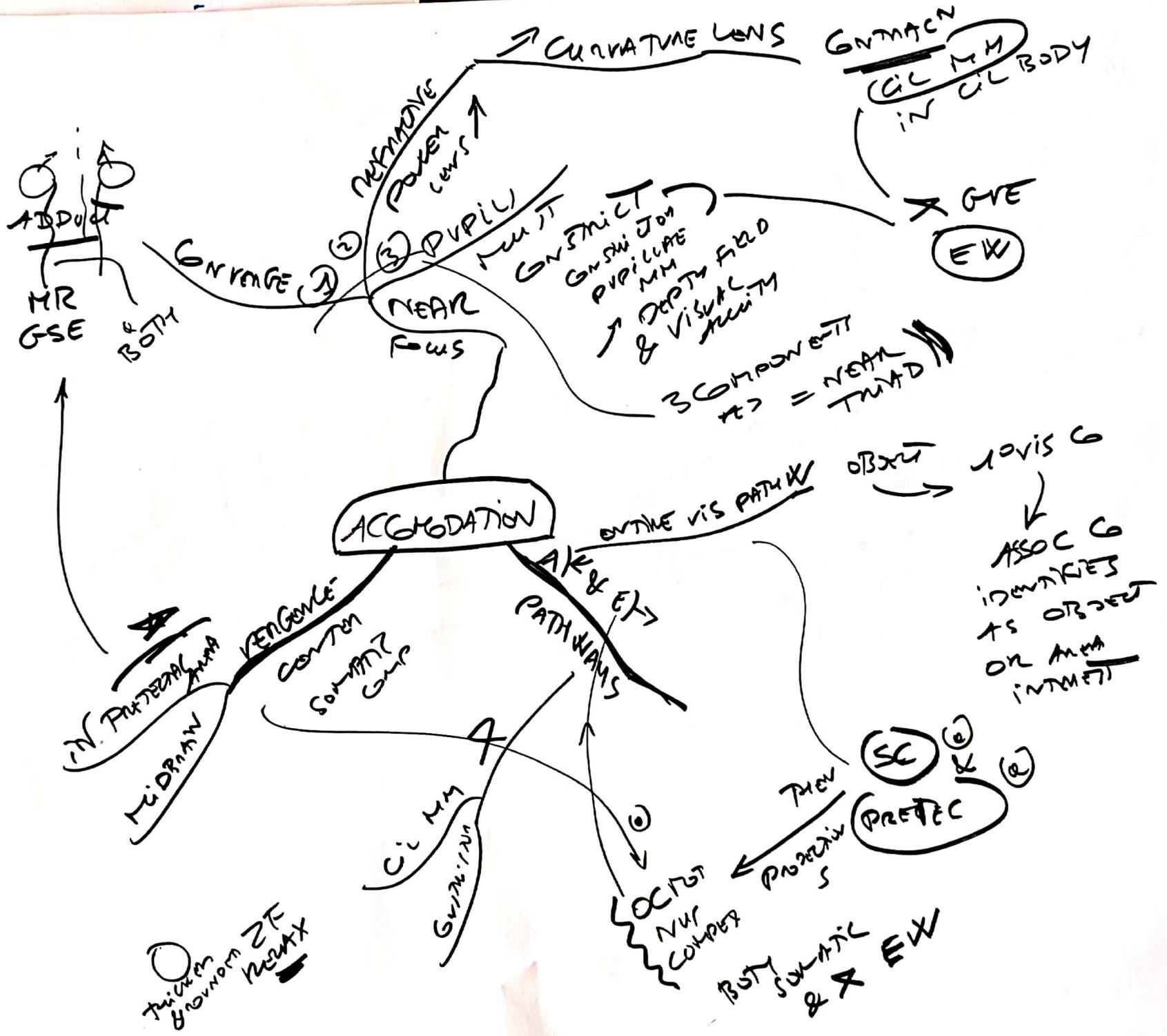


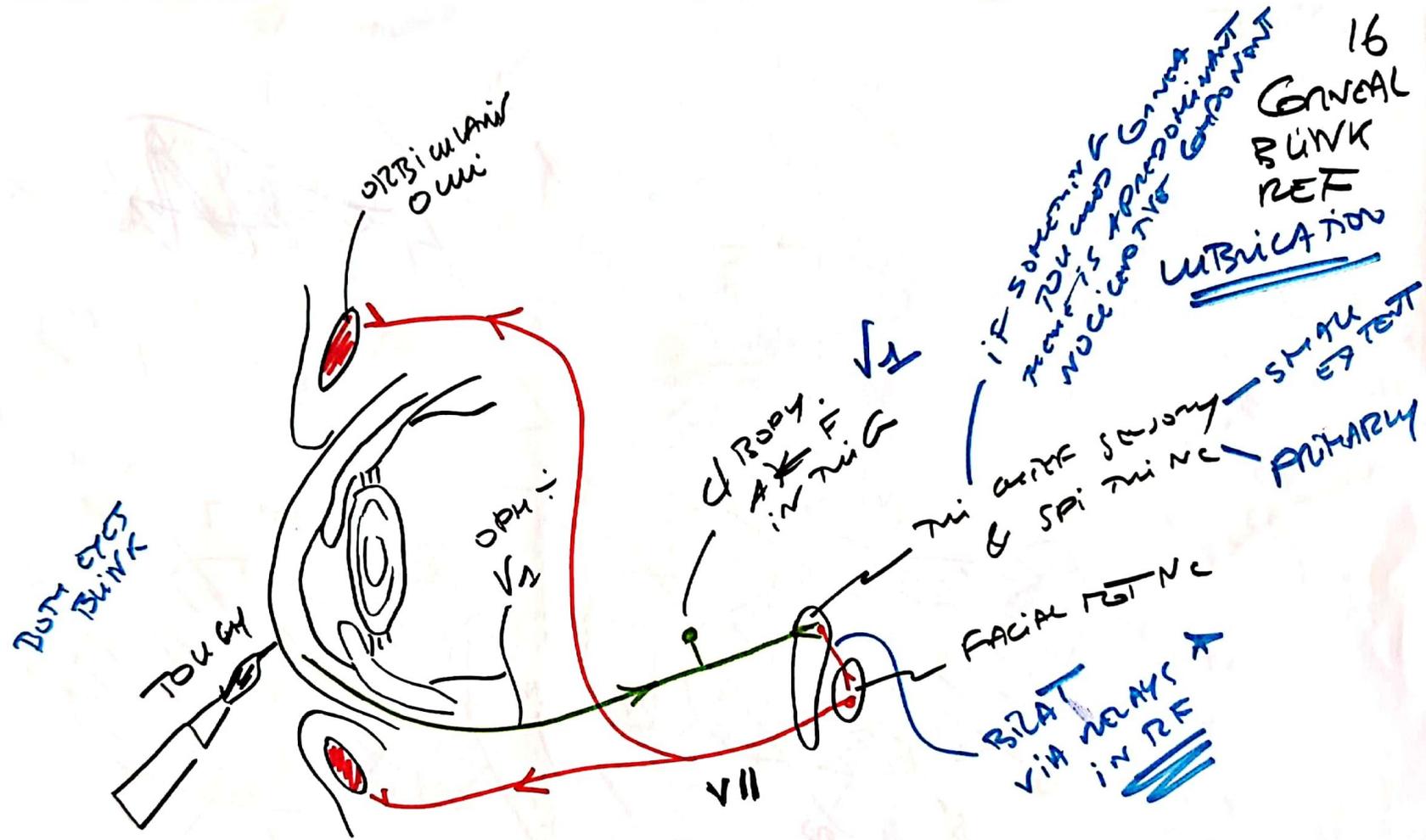
OPTIC REFLEXES



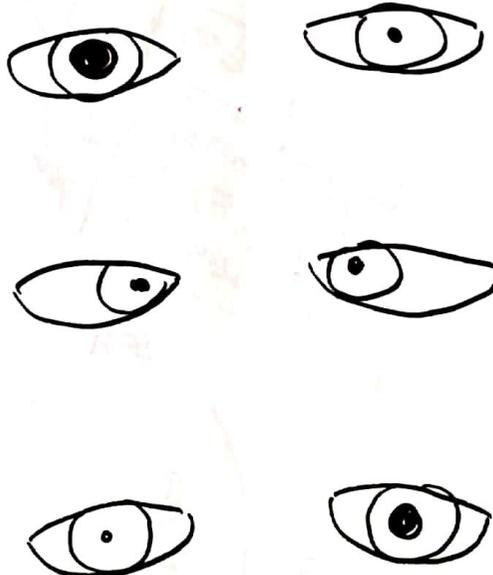
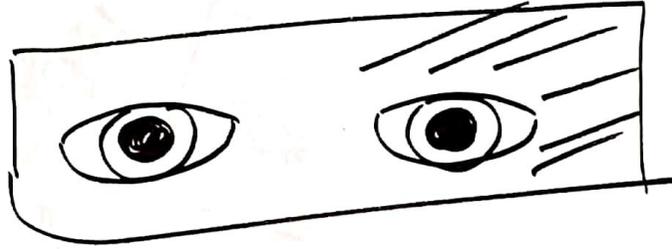


15
 PUPIL DILATION REF





TONIC
PUPIL
(ADIE
PUPIL)



0.1% Pilocarpine in STILWATION

CHOL ACO*

ADIE PUPIL CONSTRICTS ← DEVENVA^N HS