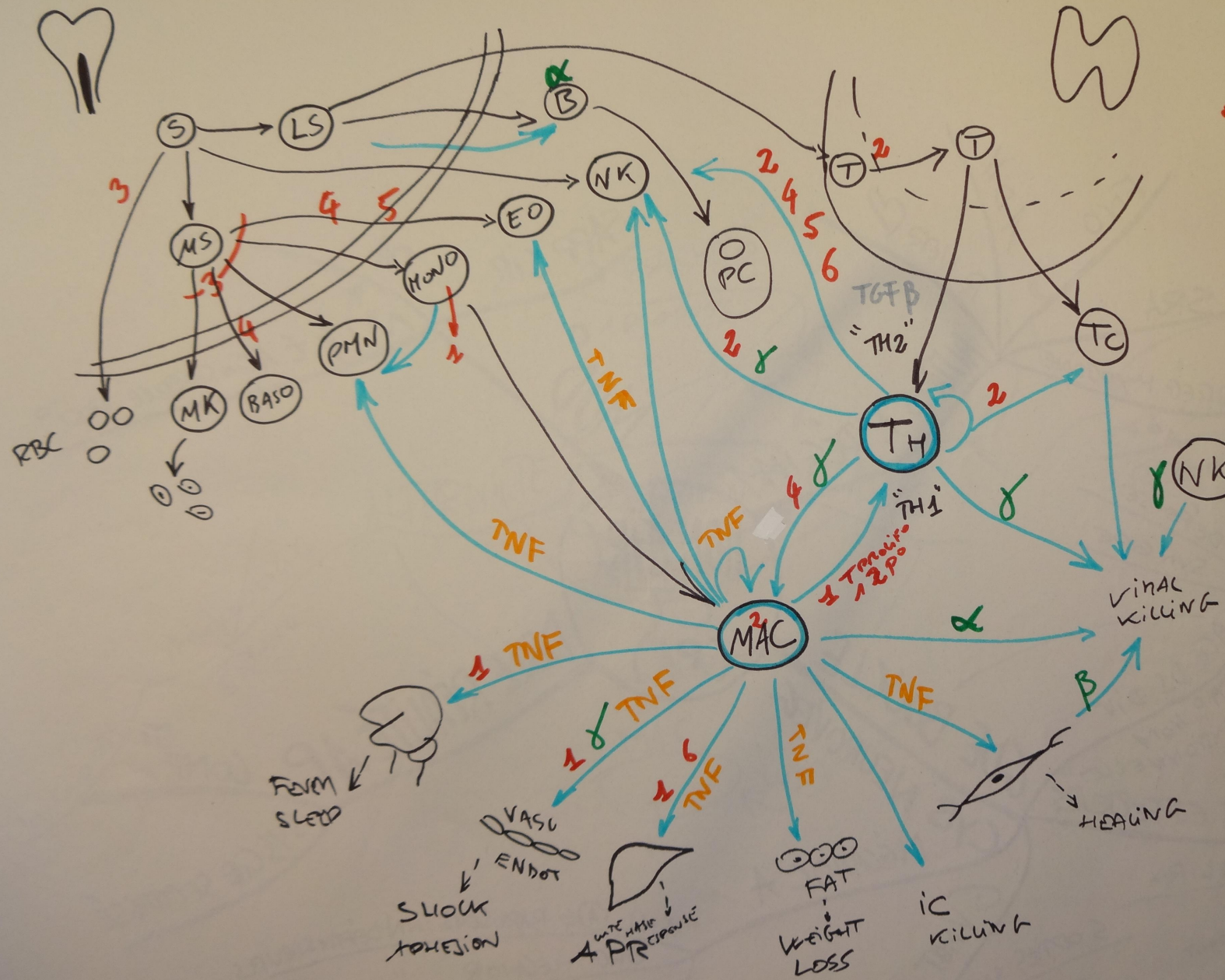


(5.3)

(5.2)



- IL 1
- IL 2
- Prolif T B NK
- @ MNO
- 3 T → 3 GF MAST HSC
- 4 T → 4 GF BAT HLA II
- 5 T → 5 B → PD
- 6 MAST BAT @ GF FIB

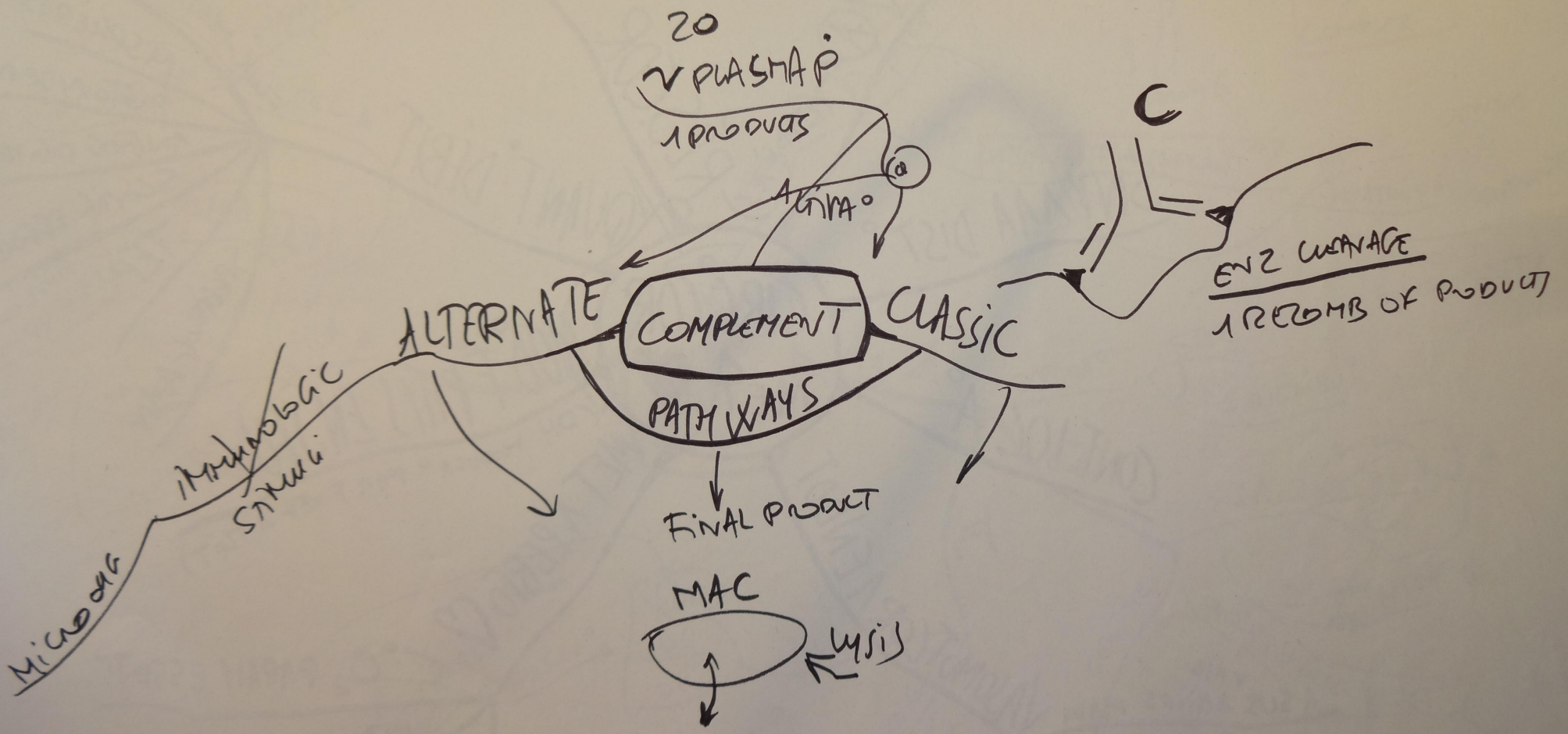
IFN α
 B
 @ MAC
 HLA II

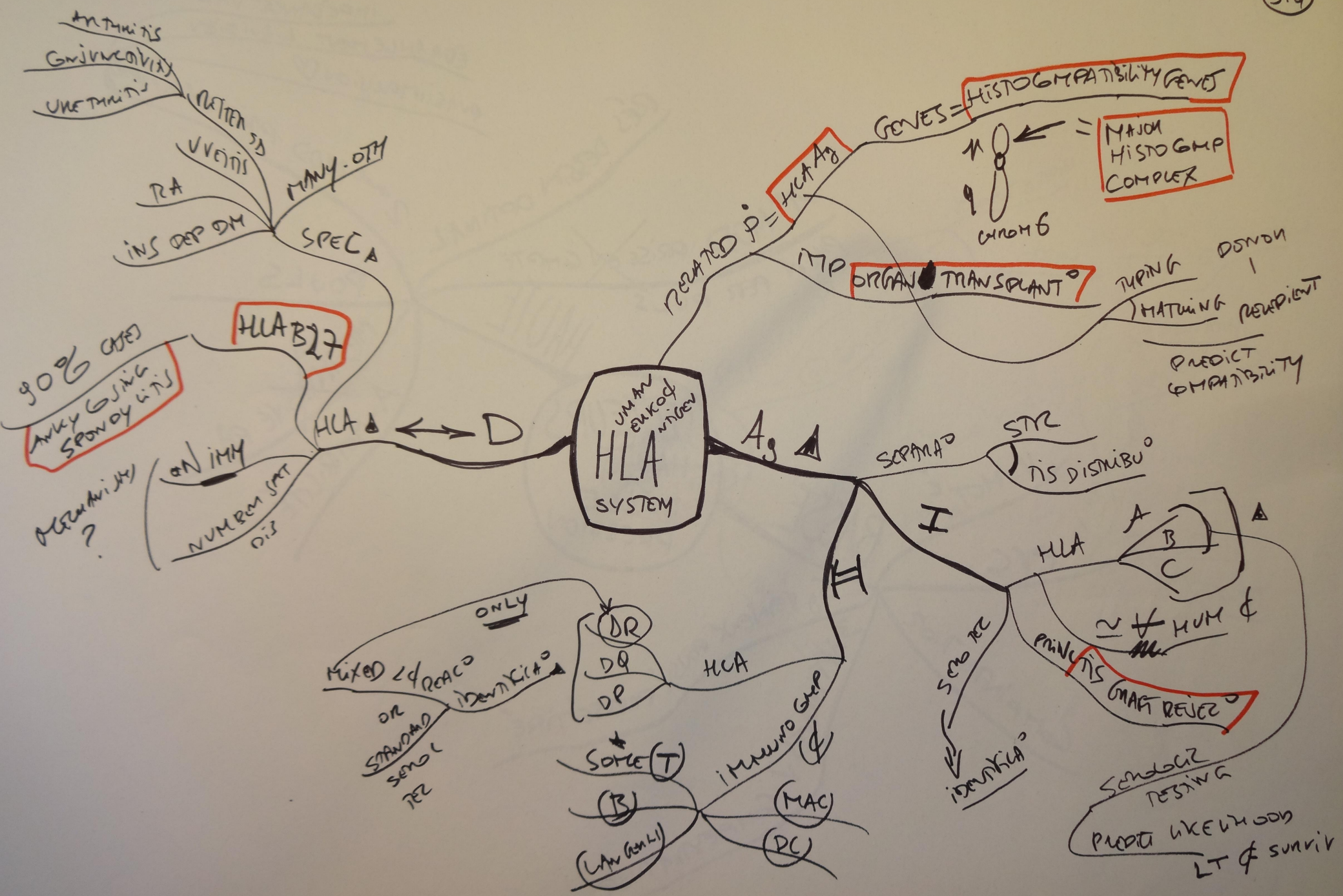
TNF α GAD65
 B left
 T Prolif
 IL 2 PD
 cytotoxic select

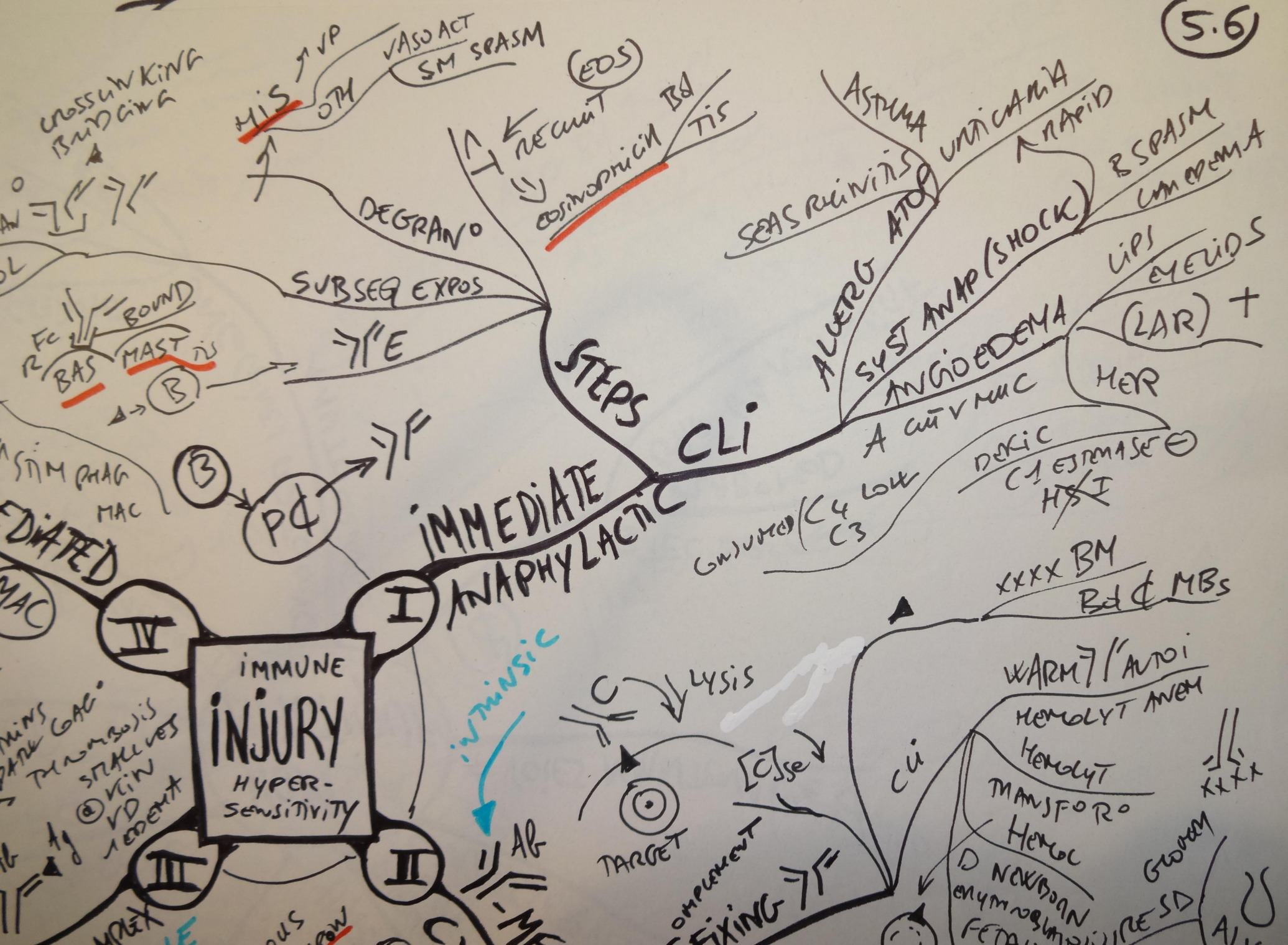
PLAY FAIR!
 +
 SC4 2013

CYTO KINE

and
 OTH
 CELLS
 IL 1

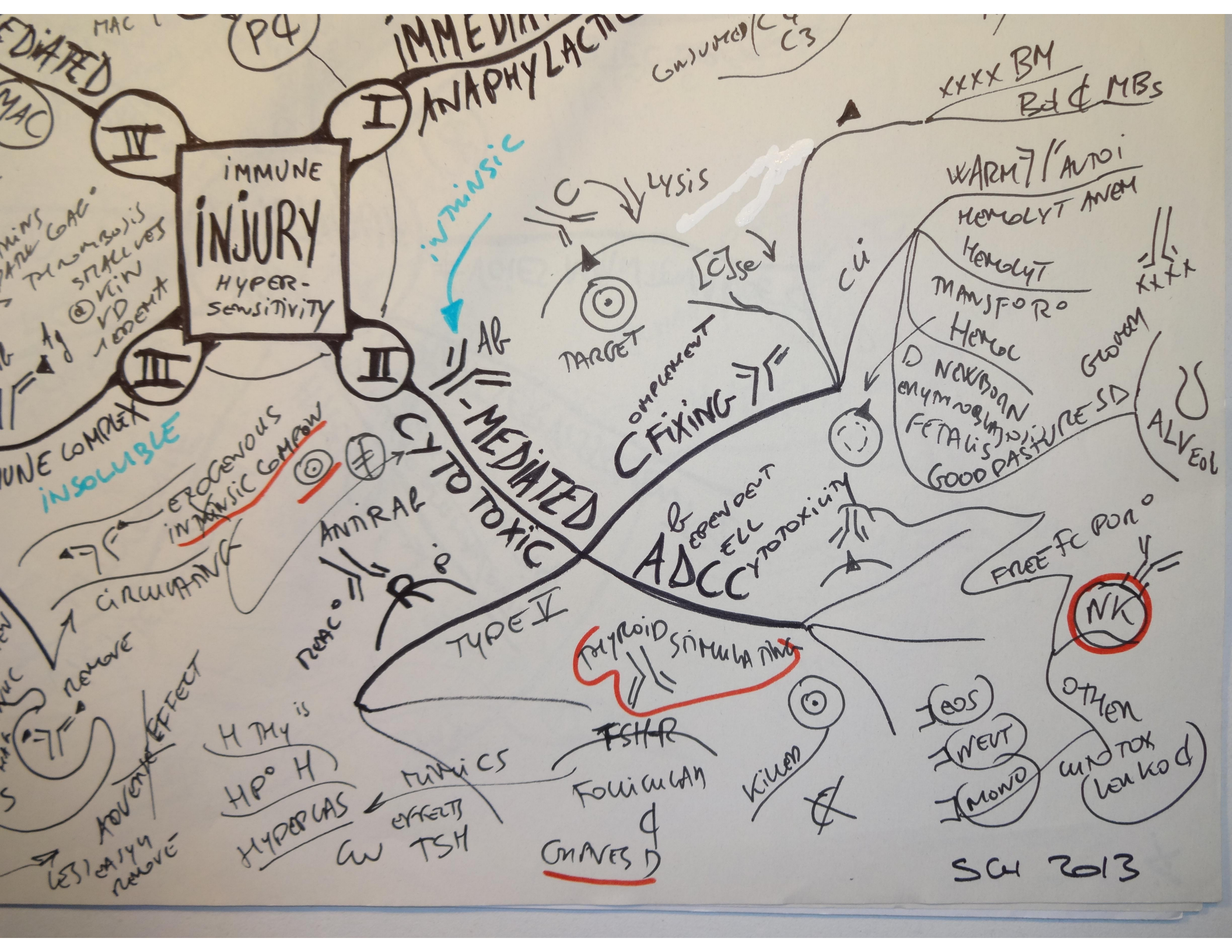






IMMUNE INJURY

HYPER-SENSITIVITY



IMMUNE INJURY
HYPER-SENSITIVITY

I IMMEDIATE ANAPHYLACTIC

IV

III

II

ANTIBODY-MEDIATED
CYTOTOXIC

ADCC

TYPE IV

H Thy is
HP^o H
HYPERTAS

TSHR
FOLLICULAR
CHANGES

TSH

KILLER

EOS
TWEET
TMONO

OTHER
WIND TOX
LEUKOC

SCU 2013

INTRINSIC

LYSIS

TARGET

COMPLEMENT
FIXING

DEPENDENT
CELL
CYTOTOXICITY

C₁

WARM / AUTOI
HEMOGLYT ANEM

HEMOGLYT
TRANSFERO

D NERVOUS
ENZYMOLOGICAL
FETALIS

XXXX

ALVEOL

FREE FC

NK

IMMEDIATE

MAC

IMMUNE COMPLEX
INSOLUBLE

EROSIVE
INTRINSIC

CIRCUITRY

ADVERSE EFFECT

LESION

P4

GAMMA (C3)

XXXX BM
Bd & MBs

cut Prolif (T) (T) SNALL
d ↓ ABOUT PERMIL
IN DNA ← W/ MING
KIRIN

UTD (LINE)

DEBRAN
UTOL
CROSSLINKING
BUNDLING

MIS
↑ VP
OTH

CD8⁽⁺⁾ TCR
PERMANENT
DIL GEM INJ
CONTACT DERMATITIS
TUBERCULIN

TOX T-MEDIATED

BOUND
FCS
BAS
MAST cell
B

SURSE

CD4⁽⁺⁾ PROLIF

DELAYED HS

T-MEDIATED

STIM PHAG
MAC

B

P4

MAC
MHC II
CD4⁽⁺⁾
STIMULATORY
MEMORY
CHALL

POST STREP GN
MB
LUPUS

NEPHROPATHY

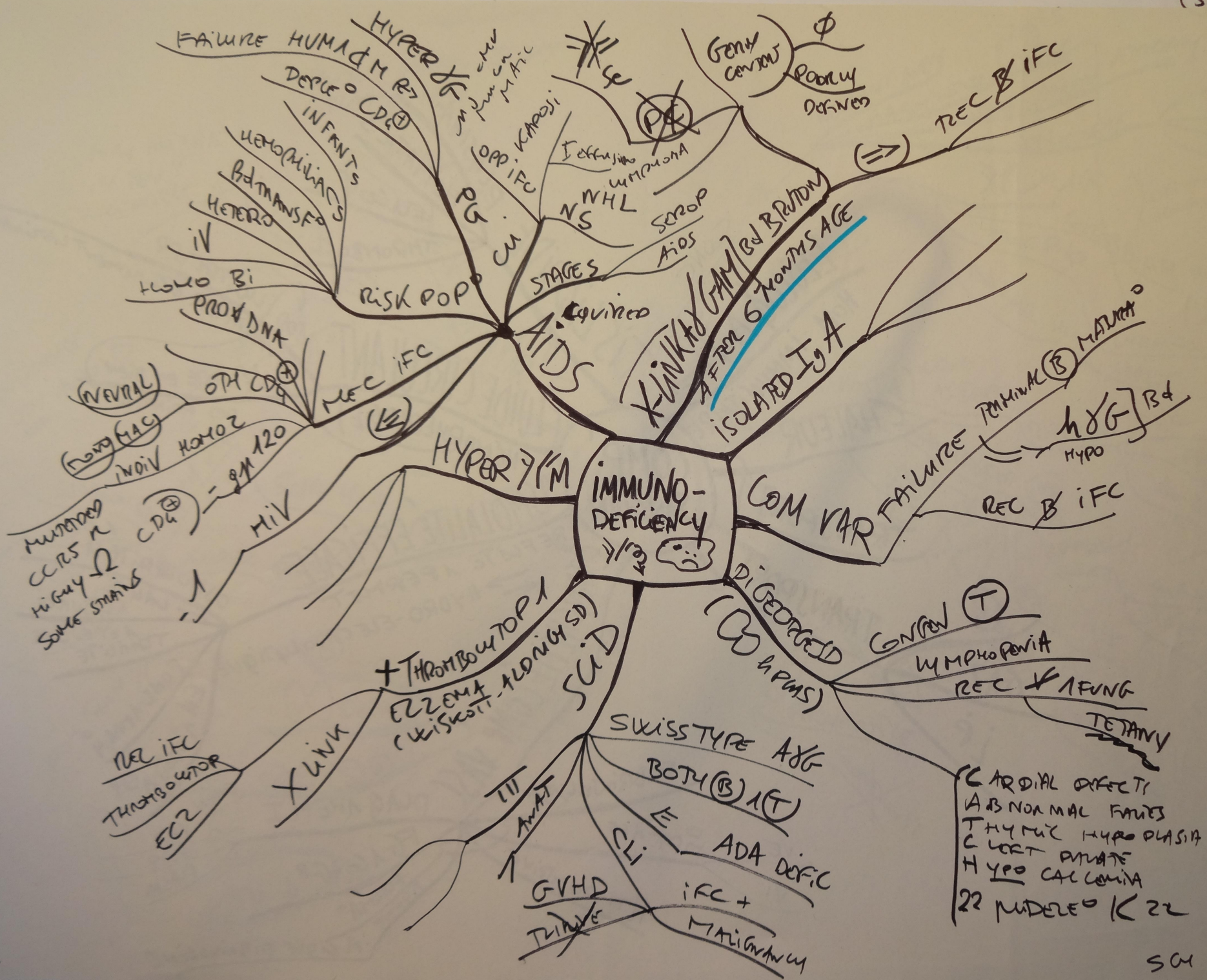
IV

IMMUNE
INJURY
HYPER-
SENSITIVITY

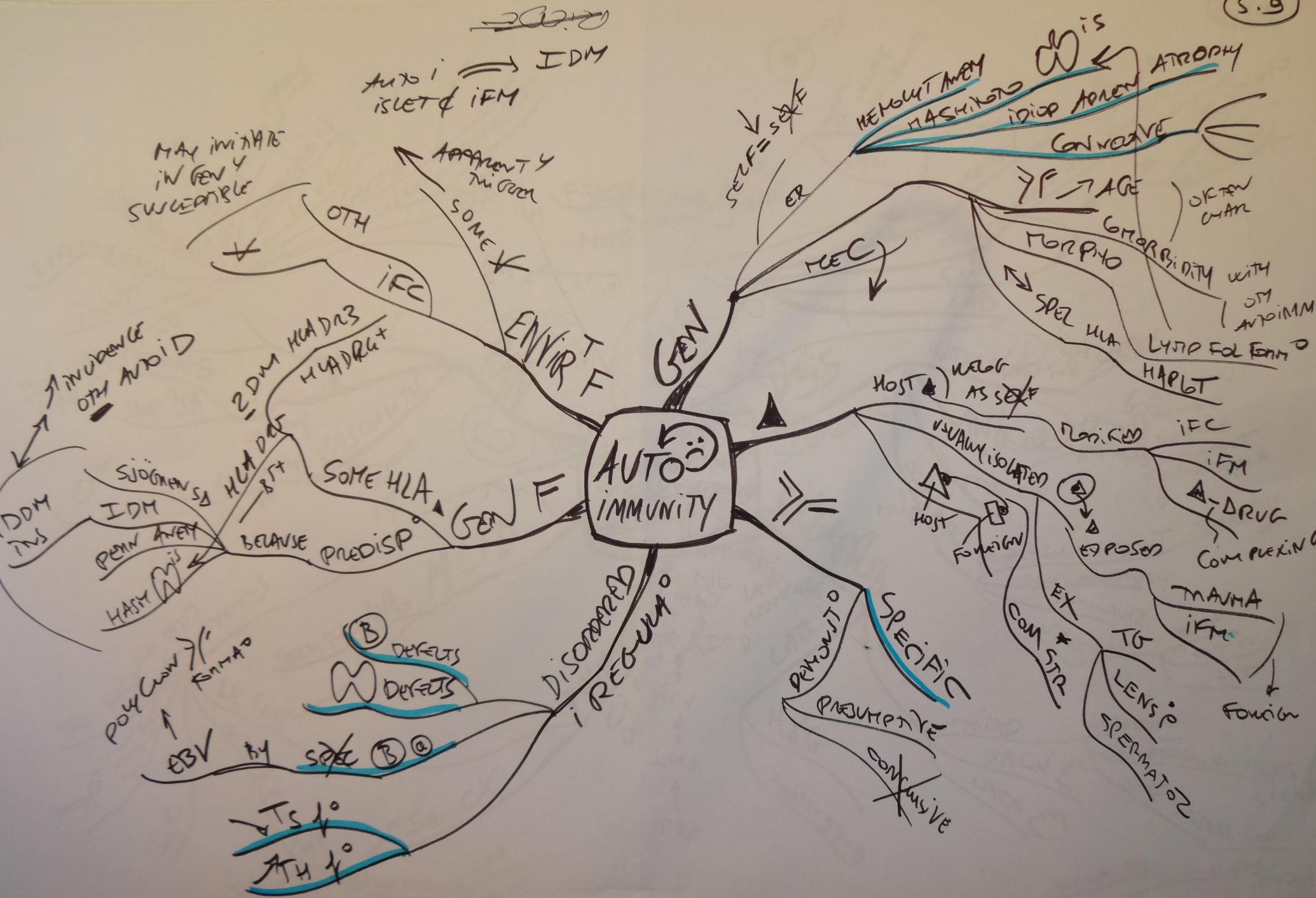
WIRE
EXCESS PRESENTATION
GEN
LOC ED

GLOMERULAR
PAN

IMMINS
PANE GAC
TENSORIS
STALL VET
VD
KIN
MEMENTA



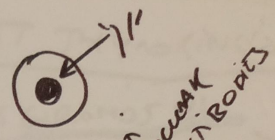
AUTO IMMUNITY



CONNECTIVE (COLLAGEN)

BUTTNEY RASH
 RAYNAUD PHEN
 SERIFIM
 OIC INT PULM FIBROSIS
 ENDOCARDIIS
 IC VASC IS
 GLOMER
 Nephro 1 PSCALAT
 EYE

FIBRINOID CHANGE
 AUTOI
 MAYBE
 MOST



OX-TAN
 WOMEN
 PROLIFERATIVE IMM
 EMPHYSEMA
 IFM LESIONS
 KIDNEY

JOINT
 FEVER MAL LAD
 DRUGS
 Hep is B
 ?
 USUALLY
 VASCULITIS
 STILL A MODIM
 AA
 IC

SLE

PSS

Sjögrens

CHAR

HYG

CLI

MCTD

POLYMYOSITIS
 CI PROCESS
 DERMATO MYOSITIS

LAB

ANTI-SS-B

WIDESPREAD FIBROSIS
 INTERSTITIAL

Anti-scl-70

CALICULI
 RAYNAUD
 ESOPHAG
 SCLERACT
 TACHYPNEA
 SD

HYPOPL GL F SUB CUT
 TRICHO FAC
 ADP

SCLERODACTYL
 RAYNAUD
 VISCERA

DOP
 INT PUL FIB
 HT

TRIAD
 SALIV EM
 LACR EM

XEROSTOMIA
 KERATOCONJUNCTIVITIS
 SICCA
 ONE SEVERAL CN

SICCA SD
 VOTM
 AUTOI

SPECIFIC ANAs
 LE TEST
 T TEST FOR ANA
 DNA
 "RIM"
 (Sm)

SCLERODERMA
 Q +
 LATE
 MIDDLE AGE

(S.11)

TRANSPORT THYROIDAL RETINOL

AMYLOID

AMYLOID DEPOSITS

AMYLOID = PROTEIN

AMYLOID SUBSTRATES

AMYLOID = PROTEIN

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID SUBSTRATES

AMYLOID

AMYLOIDOSIS
misfolded

STR

MORPH

EC

HE

ATLANTIC

STAIN GORUPED

APPLE GREEN

BIRREFRINGENT

POLARIZER LIGHT

TH PRESENCE

TH MET

TRITINO BEAM

FLUORESCENT

METACHROMATIC

AN

MESODERM

SKIN

MAY INVOLVE KIDNEY

TONGUE

INTENS BROWN

TRITINO BEAM

METACHROMATIC