

뇌는 목적 없으면  
빈둥거린다

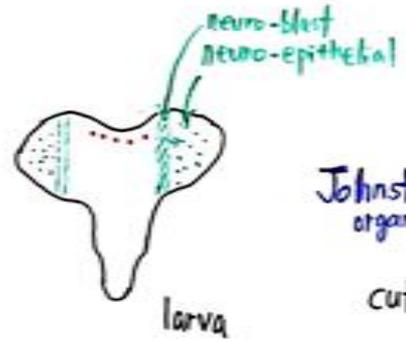


neuro-ectoderm  
embryo



mushroom body cell  
neuroblast

VNC

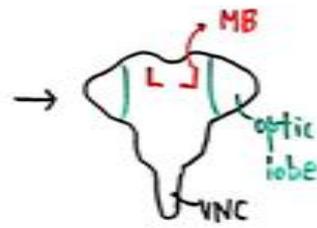


neuro-blast  
neuro-epithelial

larva

Johnstone's  
organ

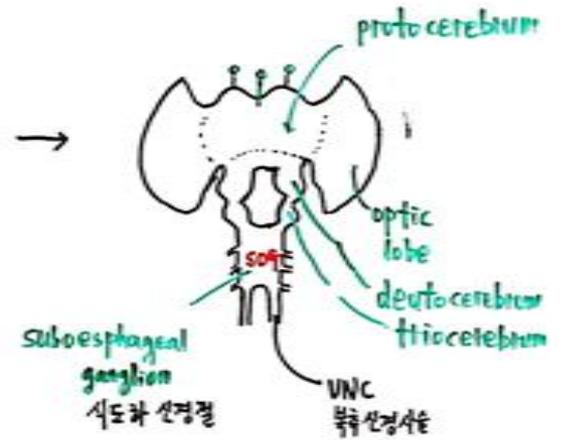
cuticle



optic  
lobe



larva



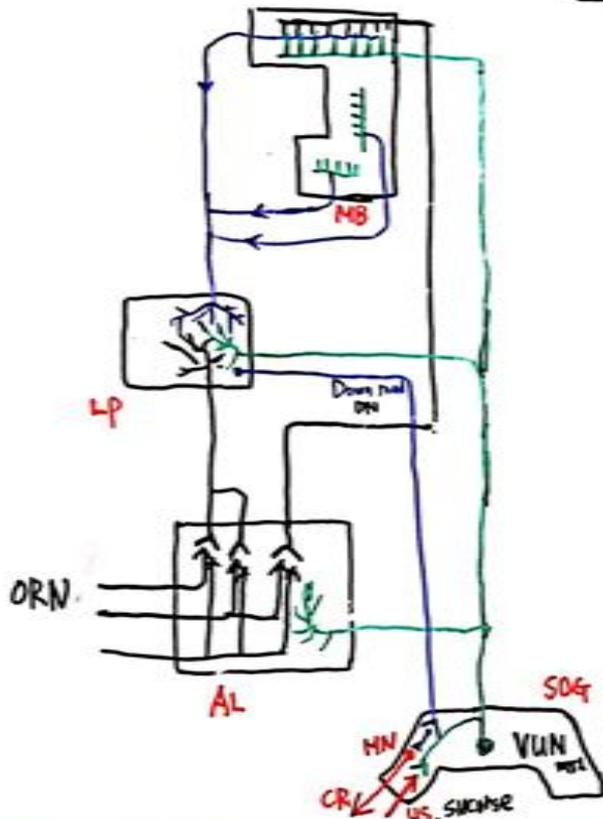
proto-cerebrum

optic  
lobe

deuto-cerebrum  
trio-cerebrum

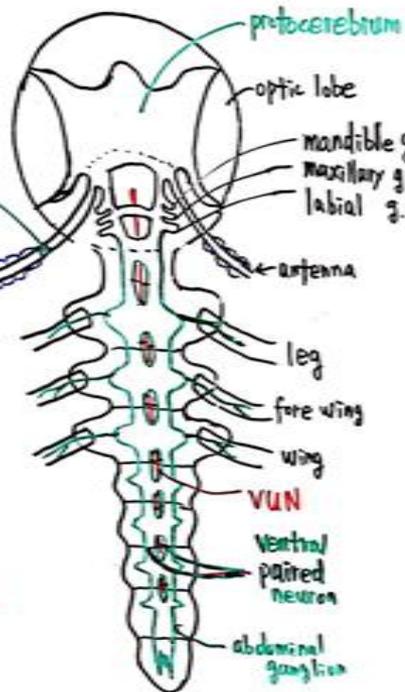
VNC  
복합 신경선

subesophageal  
ganglion  
식도하 신경절

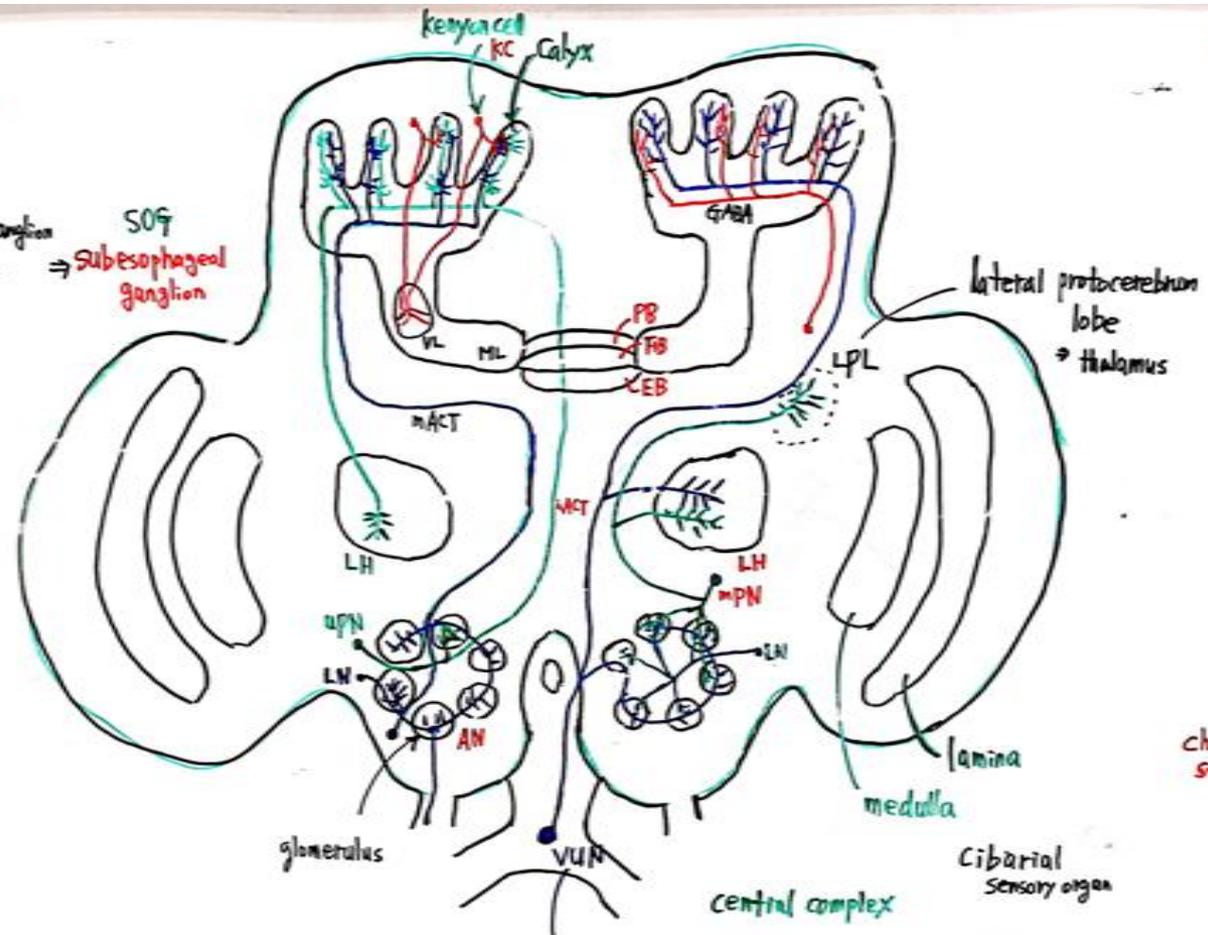


metabol

Johnstone's organ  
cuticle  
proto-cerebrum  
optic lobe  
deuto-cerebrum  
trio-cerebrum  
VNC  
복합신경사슬



SOF  
⇒ Subesophageal ganglion



op

chemo-sensory

labrum 립벌  
mandible 턱  
maxillary 턱턱 → maxillary palp  
hypopharyngeal 환상혀  
labium 아랫입술 → labial palp  
ventral unpaired neuron VUN

central complex

PB → step length  
FB → right. left  
EB → orientation

Cibarial sensory organ

PB, FB → striatum  
EB → GP, GP

