

# *Canonical Terminology and Abbreviation*

*ITO Kei 1996 December*

## **position, etc.**

a	anterior
p	posterior
m	medial / median
l	lateral
d	dorsal
v	ventral
v-l	ventrolateral
s	superior
i	inferior
su	sub-
in	inter-
intr	intracerebral
g	great / giant
cv	cervical
oes	oesophagus / oesophageal

for	foramen
fi	fissure
gr	glomerular

## **structure type**

b	body
lob	lobe
tu	tubercle
fo	focus (foci)
fasc	fascicle
casc	cascade
bdl	bundle
t	tract
f	fibre
c	commissure
con	connective
n	nerve

## *Important names of brain regions*

### outer structure

pr	protocerebrum	
deut	deutocerebrum (ant lob and ant m-sens r)	
tr	tritocerebrum	
SOG	suboesophageal ganglion	
	three segments (mandibular, maxillary, labial)	
	are fused	
brain	= supraoesophageal ganglion	
	= protocerebrum + deutocerebrum +	
	tritocerebrum + optic lobe	
central brain	= brain except the optic lobes	
oes for	oesophagus foramen	
v fi	ventral fissure	anterior opening
d fi	dorsal fissure	posterior opening

### peripheral nerve

ant n	antennal nerve	
	from antennae and forehead	
labr fr n	labro-frontal nerve	
	from ventral head and labrum	
max labl n	maxillary-labellar nerve	
	from maxillary palpus (odour) and labium	
	(taste)	
ocl n	ocellar nerve	
recurrent n	recurrent nerve	
	from enteric nervous system	

### optic lobe

la	lamina	
me	medulla	
lo	lobula	
lop	lobula plate	
1st op ch	first optic chiasma	
	between lamina and medulla	
2nd op ch	second optic chiasma	
	between medulla and lobula / lobula plate	

### deutocerebrum

ant lob	antennal lobe
ant m-sens r	antennal mechano-sensory region

### mushroom body

ca	calyx
ped	pedunculus
l bdl	lateral bundle
m bdl	medial bundle
sp	spur
alpha, $\alpha$	alpha lobe
beta, $\beta$	beta lobe
alpha', $\alpha'$	alpha' lobe
beta', $\beta'$	beta' lobe
gamma, $\gamma$	gamma lobe ped

### diffuse neuropile (≡higher-order neuropile)

s m pr	superior medial protocerebrum
s l pr	superior lateral protocerebrum
i m pr	inferior medial protocerebrum
i l pr	inferior lateral protocerebrum
v-l pr	ventrolateral protocerebrum (op fo: optic foci)
op tu	optic tubercle
l ho	lateral horn
pars in	pars intercerebralis
p sl	posterior slope

### central complex

e b	ellipsoid body
f b	fan-shaped body
s ar	superior arch
no	nodulus (noduli)
l tr	lateral triangle (or, l pt : lateral protuberance)
pr br	protocerebral bridge
i br	inferior bridge
v b	ventral body

**tracts etc.**

## across mid line

a d c	anterior dorsal commissure above the median bundle, connecting s m pr
s e t	supra ellipsoid tract above ellipsoid body, connecting i m pr
i e t	inferior ellipsoid tract below ellipsoid body, connecting i m pr
in v b t	inter ventral body tract below ellipsoid body, connecting v bo
in ant lob t	inter antennal lobe tract below ellipsoid body, connecting ant lob
c op fo	commissure of optic foci posterior to f b, connecting v-l pr (op fo)
g c	great commissure posterior to f b, connecting lo
c l ho	commissure of lateral horn dorsoposterior, connecting l ho
s con p sl	superior connectives of posterior slope posterior brain, above oesophagus, connecting p sl
su oes c	sub-oesophageal commissure connecting SOG

## medio-lateral direction

a op t	anterior optic tract	lo – op tu
l op t	lateral optic tract	a op t – i l pr and i m p
p op t	posterior optic tract	medulla – medulla
lo / lop bdl	lobula / lobula plate bundle	lo, lop – v-l pr, l ho
pyr fasc	pyriform fascicle	op tu – lateral horn
tu pr t	tubercle protocerebral tract op tu – i m pr, s m pr	
g f	giant fibre (of lop neurons)	lop horizontal and vertical giant neurones - thoracic ganglia

## dorso-ventral direction

m bdl	median bundle from SOG, ant m-sens r, and thoracic ganglia	
	funnel of median bundle	
m intr casc	medial intracerebral cascade	i m pr – s m pr
l intr casc	medial intracerebral cascade	i l pr – s l pr
m fasc	medial fascicle	s m pr, i m pr – v b, eq h t
l fasc	lateral fascicle between ant lob and ant m-sens r – l ho	
p l fasc	posterior lateral fascicle	v-l pr – l ho
fasc op fo	fascicle of optic foci	upper and lower v-l pr
fasc v b	fascicle of ventral body	v bo – i m pr
p ver fasc	postero-vertical fascicle ant m sens r, i m pr – pr br, s m pr	

## antero-posterior direction

i act	inner antenno-cerebral tract ant lob – m b – l ho	
	(also: ant gl t antenno-glomerular tract)	
m act	medial antenno-cerebral tract ant lob – l ho	
o act	outer antenno-cerebral tract ant lob – i l pr	
	(also: l gr t lateral glomerular tract)	
pr gr t	protocerebral glomerular tract m b calux – s m pr	
l d h t	lateral dorsal horizontal tract	op tu – pr br
d h t	dorsal horizontal tract	op tu, s m p – pr br
eq h t	equatorial horizontal tract	i m pr, i l pr – v b
d cv fasc	dorsal cervical fascicle	(descending)
v cv fasc	ventral cervical fascicle	(ascending)