

# COLOR ATLAS OF FETAL SKELETON OF THE MOUSE, RAT, AND RABBIT

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# Preface

Double staining with alcian blue and alizarin red S is an excellent method of visualizing details of cartilaginous and ossified skeleton. Examination of fetal skeletal specimens is a routine procedure in developmental toxicity studies. Recently, skeletal observation is often utilized to describe altered phenotypes of transgenic animals.

We prepared this atlas as a basis for describing variations and anomalies in fetal skeletons of the mouse, rat, and rabbit. A prototype of the atlas was demonstrated at the 93rd<sup>8)</sup>, 94th<sup>9)</sup>, and 95th<sup>10)</sup> Annual Meetings of the Japanese Association of Anatomists, where it received favorable comment. Recently, a site was opened for the atlas on the Internet, and it has attracted considerable attention. Encouraged by these reactions we decided to publish it as a book.

The authors are deeply indebted to the Japanese Teratology Society and the Fetal Skeletal Examination Study Group for their encouragement and help in the advertisement. The efforts by Dr. M. Shinomiya and Dr. T. Iwase, leaders of the Study Group, are highly appreciated. The publicity was promoted also by the Reproductive Toxicity Working Group of JPMA (Japan Pharmaceutical Manufacturers Association).

We are indebted to Mr. E. Igarashi and Dr. T. Kobayashi for the preparation of skeletal specimens, and to Dr. F. Ariyuki and Dr. T. Kobayashi for indexing and editorial processing of the atlas. Special appreciation for publishing the atlas with no thought of profit goes to ACE ART CO., LTD.

# Materials and Methods

The materials used were fetuses of Jcl:ICR mice on day 18 of gestation, fetuses of Wistar rats on day 21 of gestation, and fetuses of Kbl:JW rabbits on day 28 of gestation. The day on which vaginal plugs or spermatozoa were detected, or artificial insemination was done in cases of rabbits, was designated as day 0 of gestation. The fetuses were eviscerated and skinned, and fixed in 95% ethanol. They were stained with alcian blue and alizarin red S by the Inouye method <sup>4)</sup>. Several specimens were prepared for each species, and each sketch was prepared as being representative of the specimen. The reader of the atlas should note that there are considerable intra- and inter-strain variations in the skeletal shape. For identification of skeletal structures, several anatomy books were referred to <sup>1),2),3),7)</sup>. For Latin names, we consulted mainly *Nomina Anatomica Veterinaria Japonica* <sup>6)</sup>, and on several occasions *Nomina Anatomica Japonica* <sup>5)</sup>.

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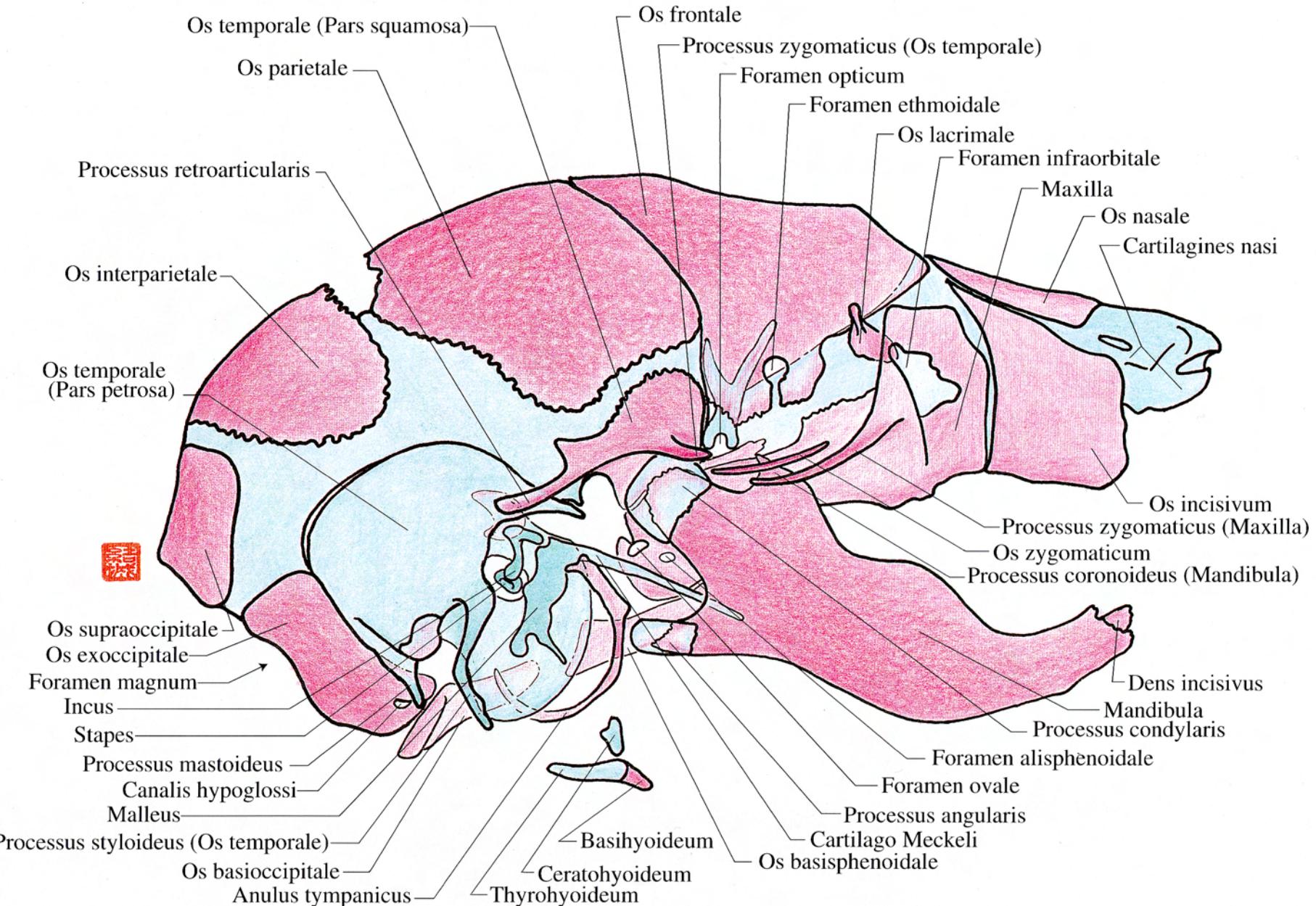
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A. MOUSE

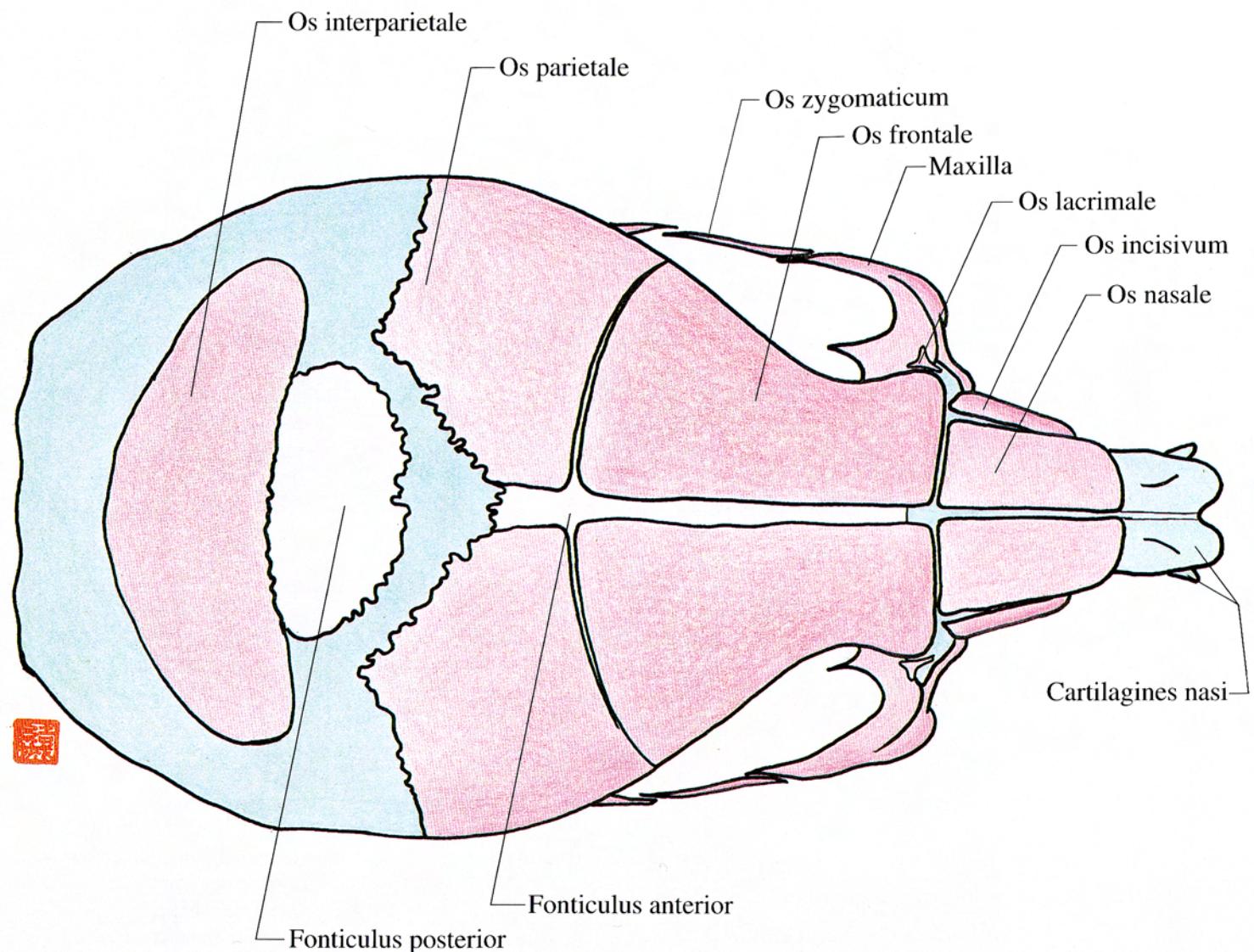
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Anulus tympanicus	tympanic ring	鼓室輪
Basihyoideum	basihyoid	底舌骨
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Ceratohyoideum	ceratohyoid	角舌骨
Dens incisivus	incisor	切齒
Foramen alisphenoidale	alisphenoid foramen	翼蝶形孔
Foramen ethmoidale	ethmoidal foramen	篩骨孔
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Incus	anvil	キヌタ骨
Malleus	hammer	ツチ骨
Mandibula	mandible	下顎骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切齒骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	淚骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os supraoccipitale	supraoccipital bone	上後頭骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus angularis	angular process	角突起
Processus condylaris	condylar process	関節突起
Processus coronoideus (Mandibula)	coronoid process (mandible)	筋突起（下顎骨）
Processus mastoideus	mastoid process	乳様突起
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起（上顎骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アズミ骨
Thyrohyoideum	thyrohyoid bone	甲状舌骨（大角）



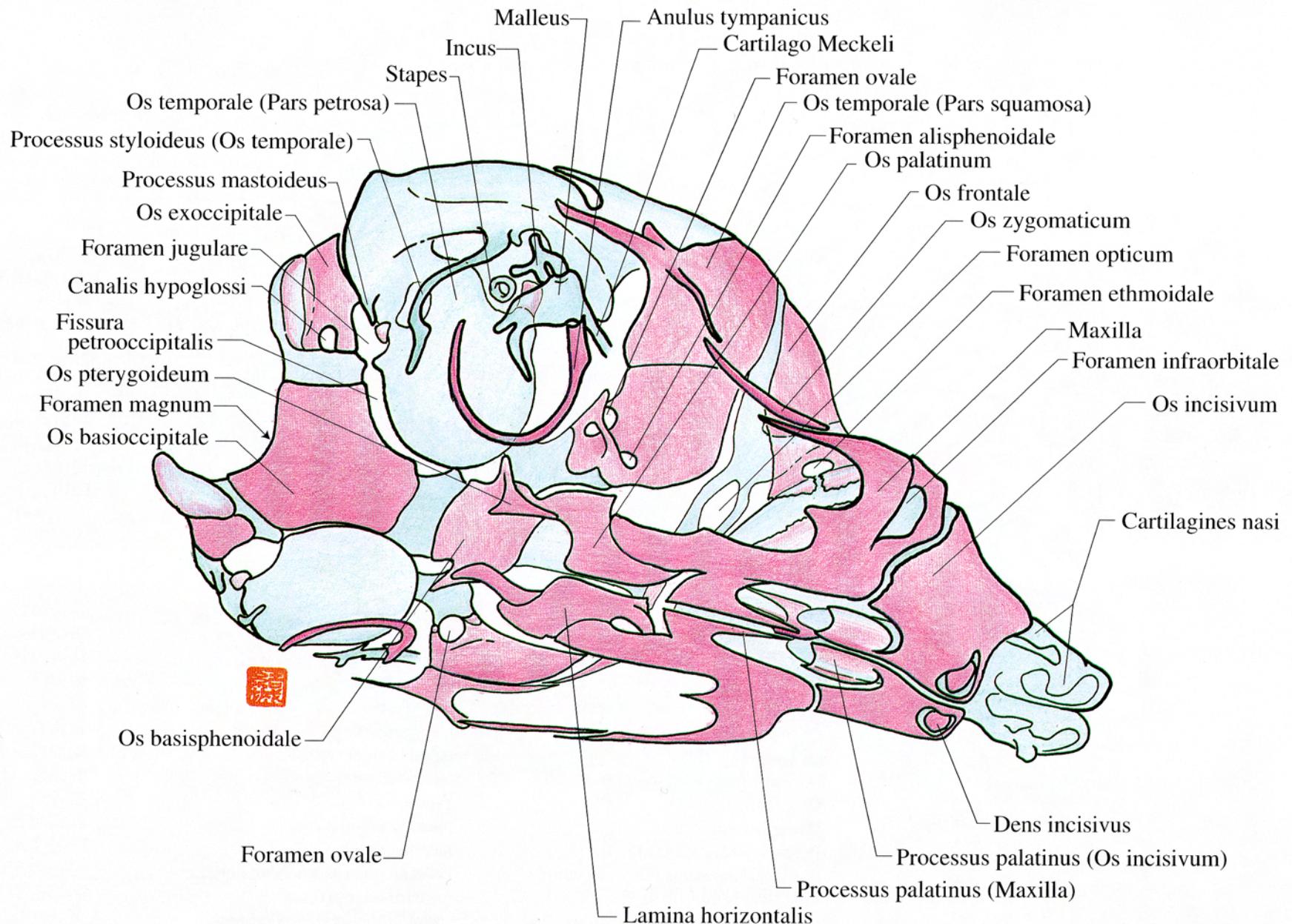
**Fig. 1 Cranium: lateral aspect**

Cartilagines nasi	cartilages of the nose	鼻軟骨
Fonticulus anterior	anterior fontanelle	大泉門
Fonticulus posterior	posterior fontanelle	小泉門
Maxilla	maxilla	上顎骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歛骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os zygomaticum	zygomatic bone	頰骨



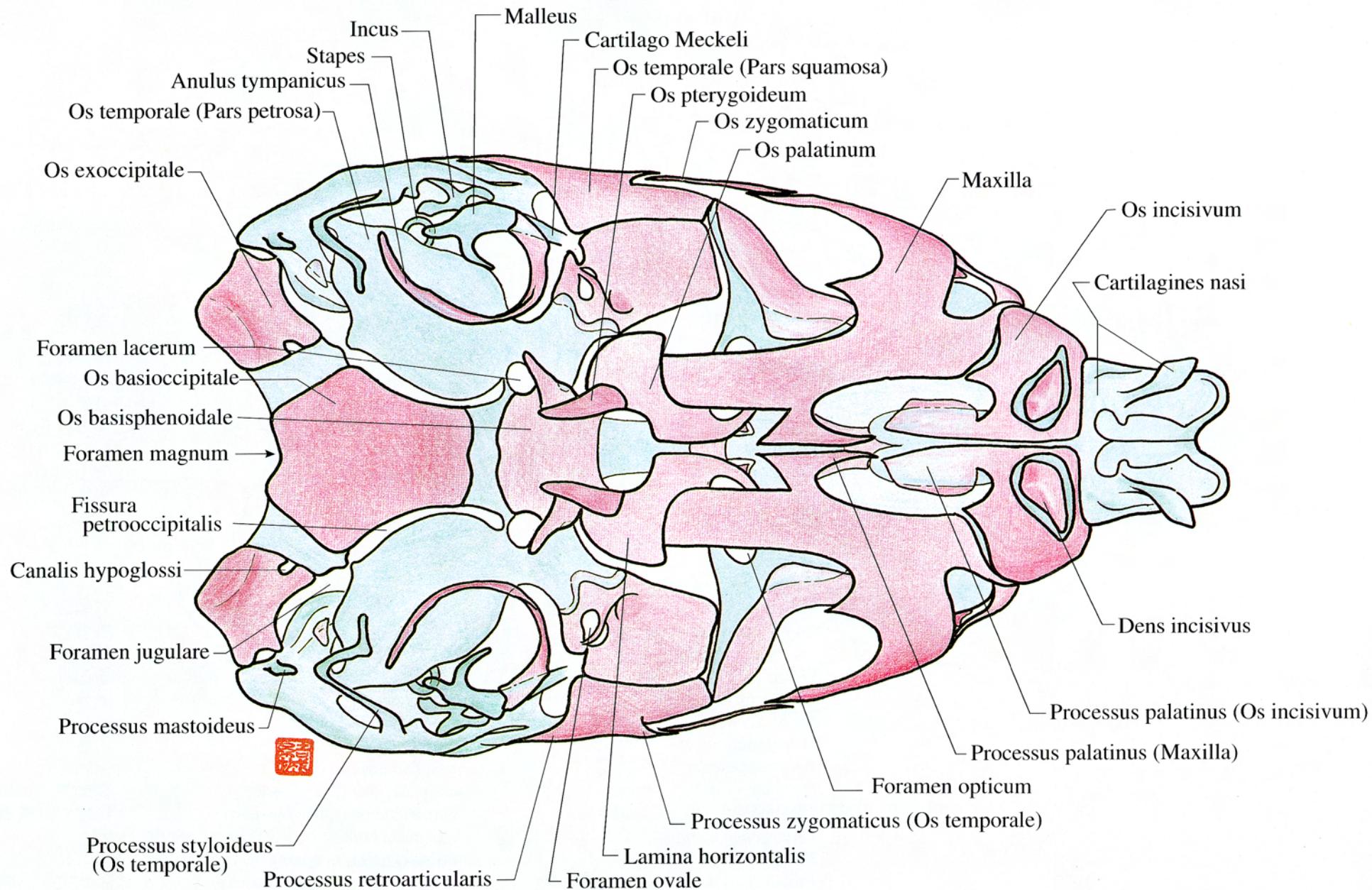
**Fig. 2 Cranium: *dorsal aspect***

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus	incisor	切歯
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen alisphenoidale	alisphenoid foramen	翼蝶形孔
Foramen ethmoidale	ethmoidal foramen	篩骨孔
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歯骨
Os palatinum	palatine bone	口蓋骨
Os pterygoideum	pterygoid bone	翼状骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus mastoideus	mastoid process	乳様突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切歯骨）
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Stapes	stirrup	アズミ骨



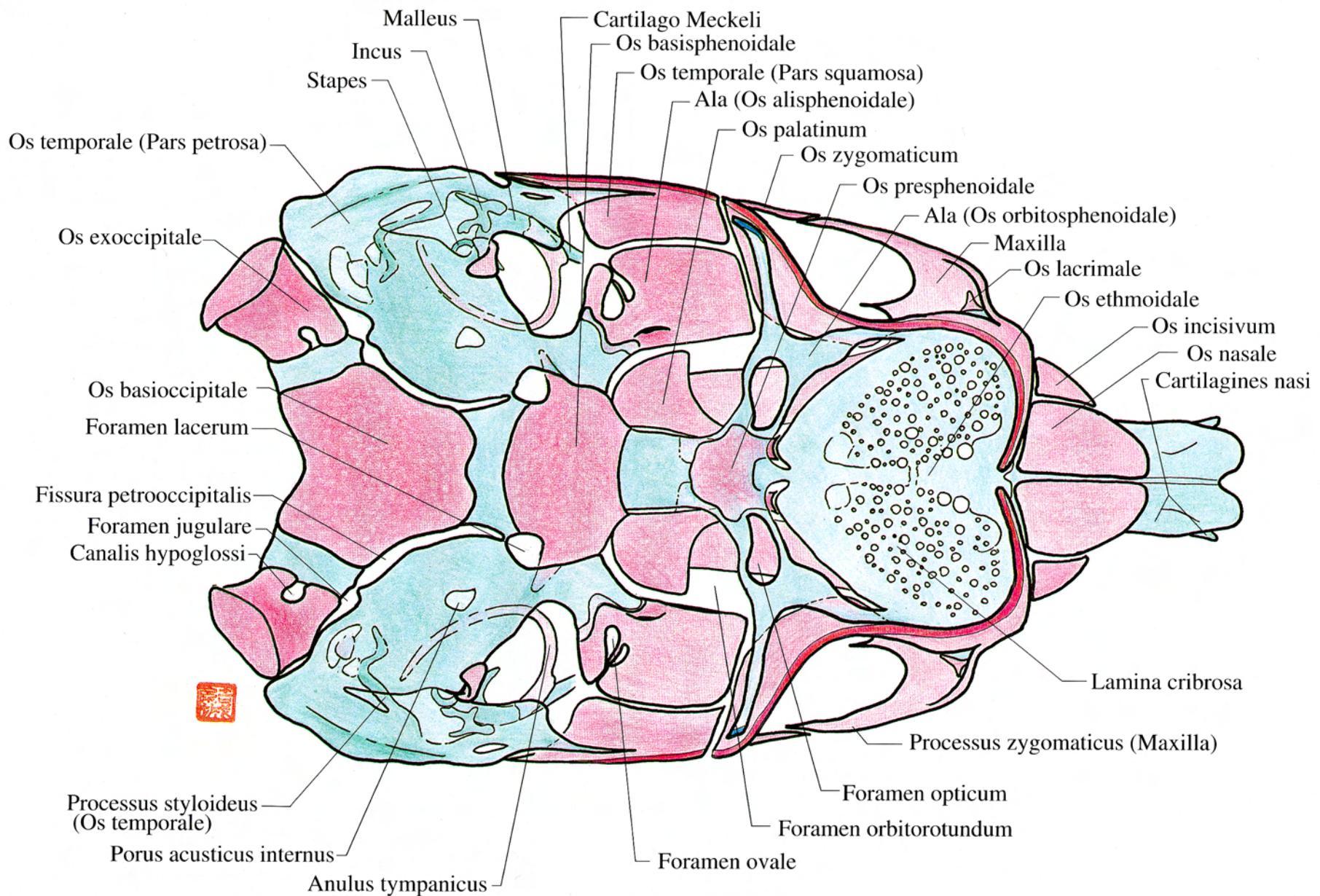
**Fig. 3 Cranium: ventrolateral aspect**

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus	incisor	切歯
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切歯骨
Os palatinum	palatine bone	口蓋骨
Os pterygoideum	pterygoid bone	翼状骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus mastoideus	mastoid process	乳様突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切歯骨）
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アブミ骨



**Fig. 4 Basis cranii externa: ventral aspect**

Ala (Os alisphenoidale)	wing (alisphenoid bone)	翼 (蝶形骨)
Ala (Os orbitosphenoidale)	wing (orbitosphenoid bone)	翼 (眼窩蝶形骨)
Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagine nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen opticum	optic foramen	視神經孔
Foramen orbitotundum	orbitotund foramen	眼窩正円孔
Foramen ovale	oval foramen	卵円孔
Incus	anvil	キヌタ骨
Lamina cribrosa	cribriform plate	篩板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os ethmoidale	ethmoid bone	篩骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切歯骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os palatinum	palatine bone	口蓋骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨 (岩様部)
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨 (鱗部)
Os zygomaticum	zygomatic bone	頬骨
Porus acusticus internus	internal auditory opening	内耳孔
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起 (側頭骨)
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起 (上顎骨)
Stapes	stirrup	アブミ骨

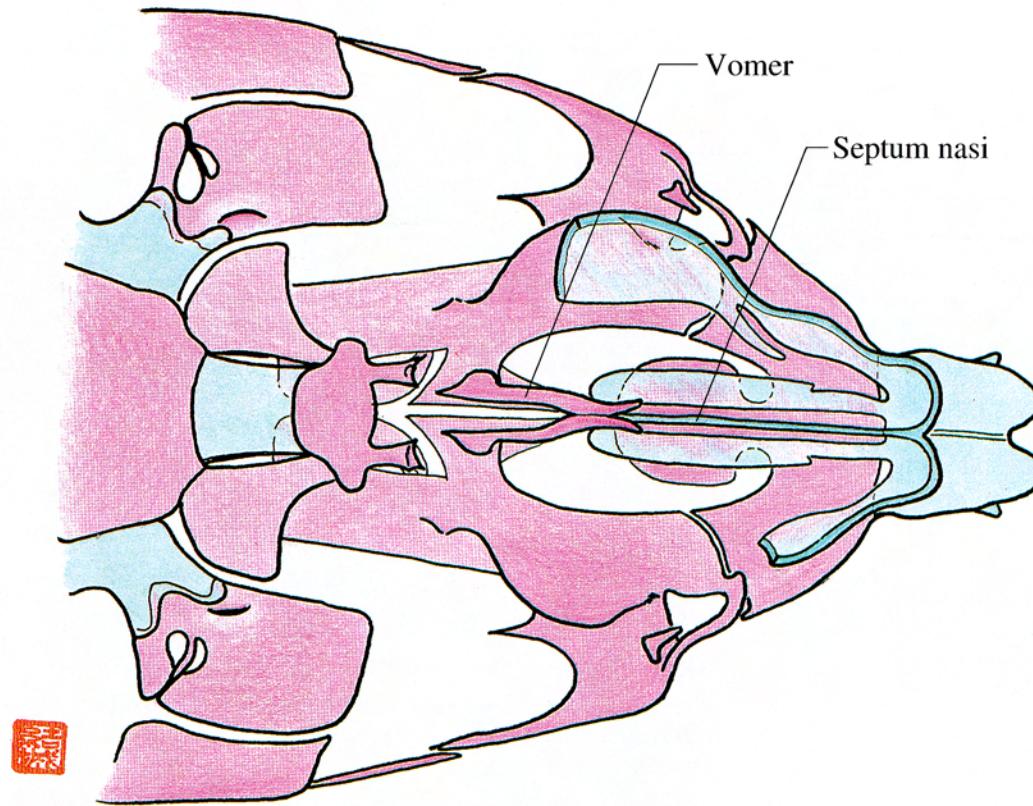


**Fig. 5 Basis cranii interna: dorsal aspect**

Septum nasi  
Vomer

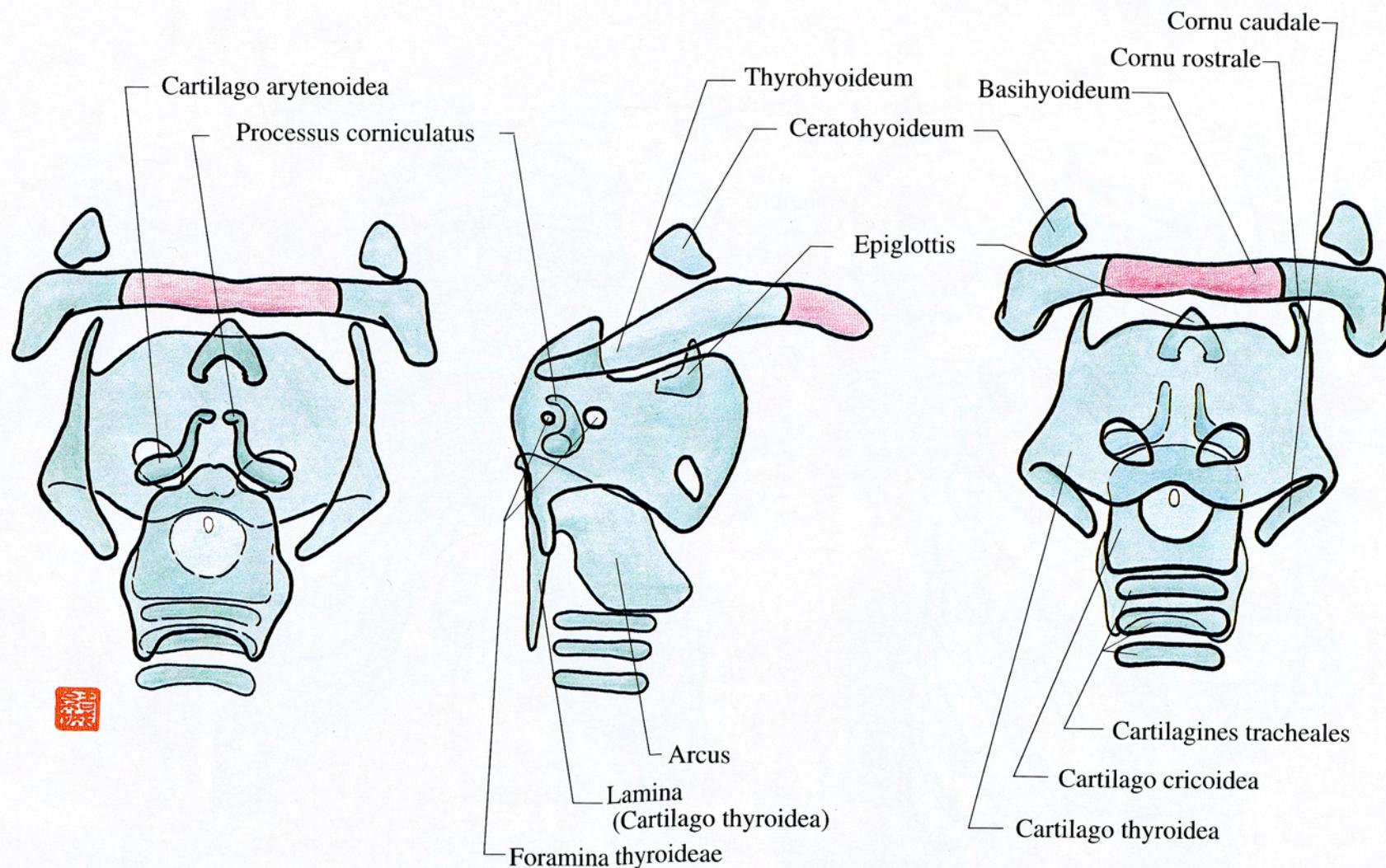
nasal septum  
vomer

鼻中隔  
鋸骨



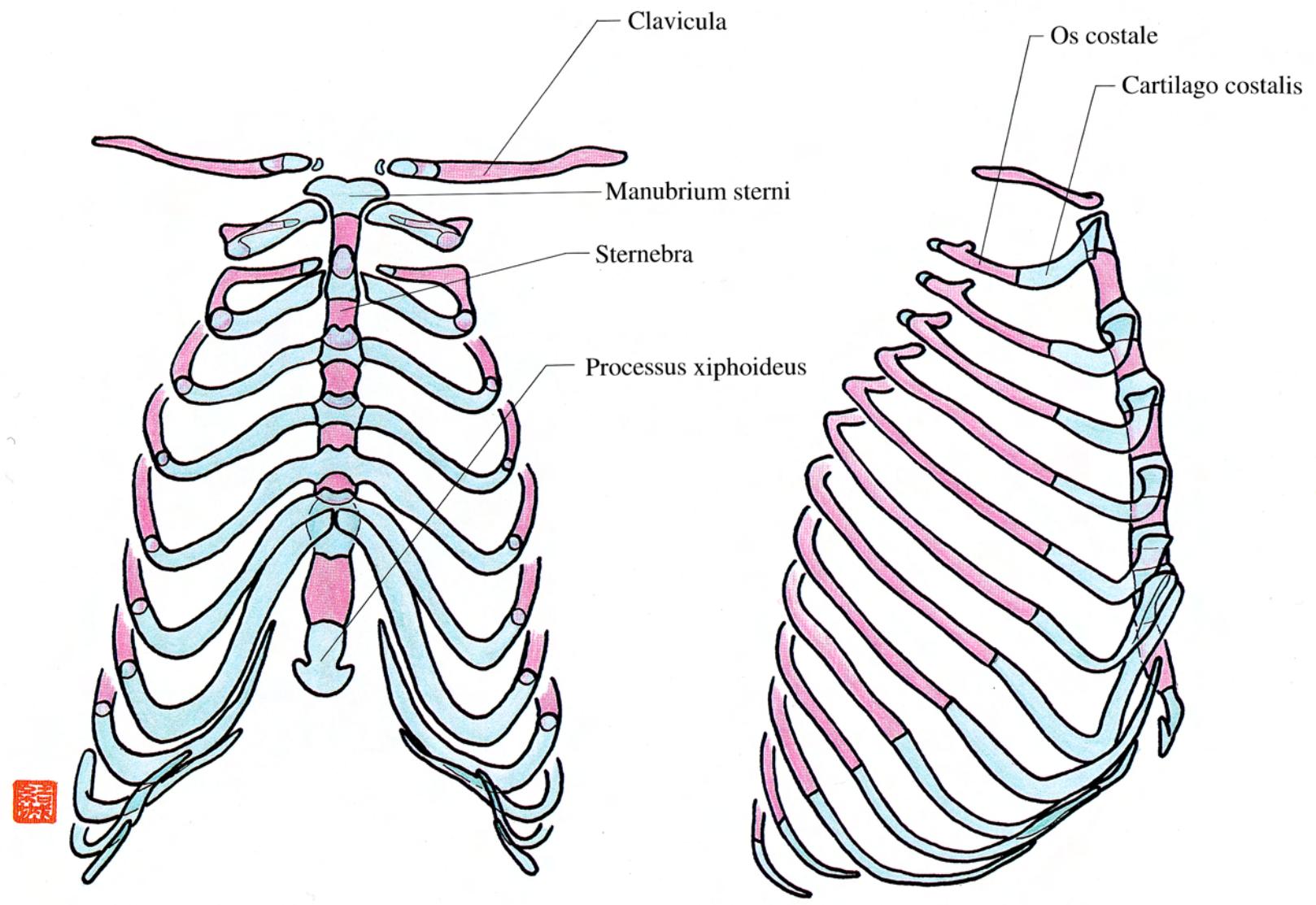
**Fig. 6 Basis cranii interna: dorsal aspect; lamina cribrosa removed**

Arcus	arch	弓
Basihyoideum	basihyoid	底舌骨
Cartilagines tracheales	tracheal cartilages	氣管軟骨
Cartilago arytenoidea	arytenoid cartilage	披裂軟骨
Cartilago cricoidea	cricoid cartilage	輪狀軟骨
Cartilago thyroidea	thyroid cartilage	甲状軟骨
Ceratohyoideum	ceratohyoid	角舌骨
Cornu caudale	caudal horn	後角
Cornu rostrale	rostral horn	前角
Epiglottis	epiglottis	喉頭蓋
Foramina thyroideae	thyroid foramina	甲状孔
Lamina (Cartilago thyroidea)	lamina (thyroid cartilage)	板（甲状軟骨）
Processus corniculatus	corniculate process	小角突起
Thyrohyoideum	thyrohyoid bone	甲状舌骨（大角）



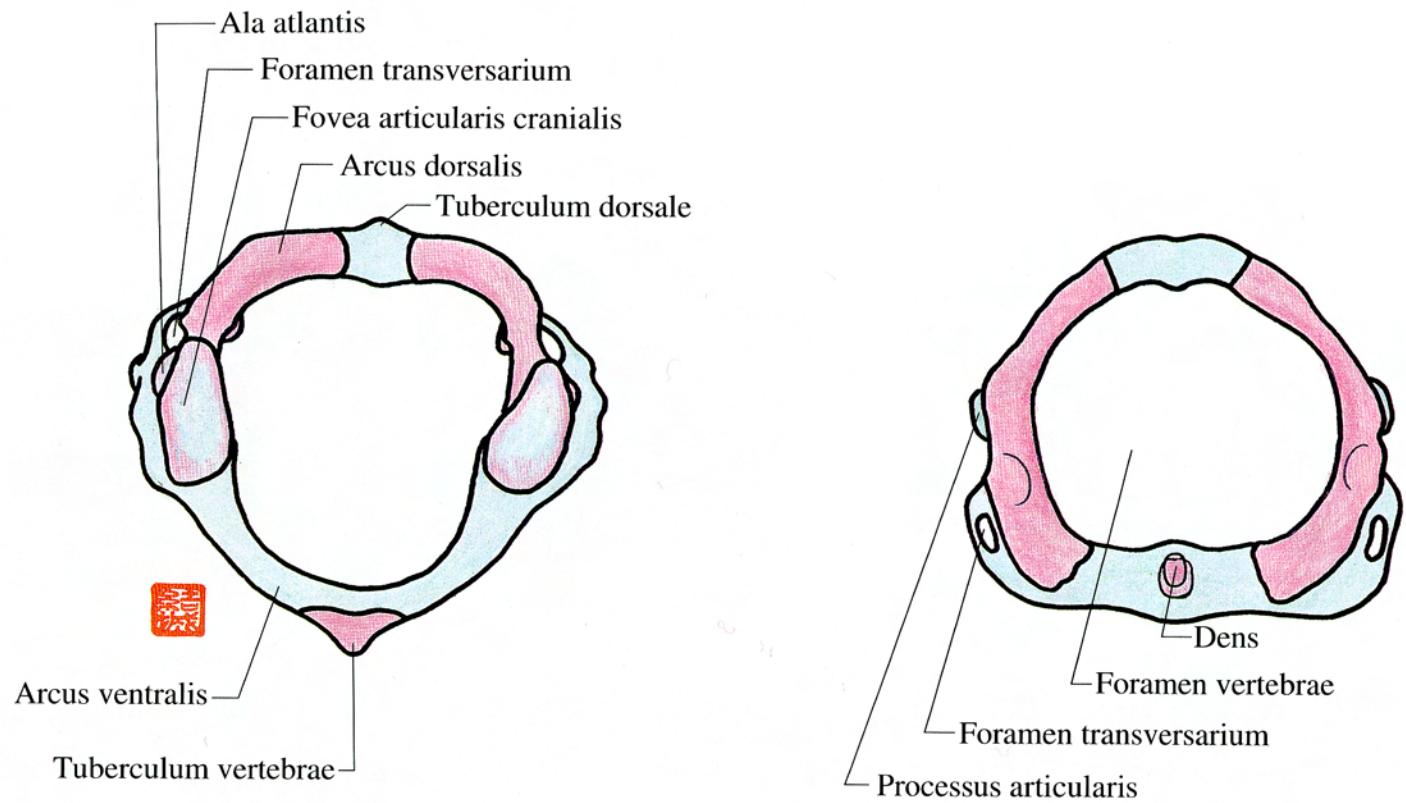
**Fig. 7 Os hyoideum et Cartilagines laryngis: dorsal, lateral, and ventral aspects**

Cartilago costalis	costal cartilage	肋軟骨
Clavicula	clavicle	鎖骨
Manubrium sterni	manubrium	胸骨柄
Os costale	costal bone	肋硬骨
Processus xiphoideus	xiphoid process	劍狀突起
Sternebra	sternebra	胸骨分節



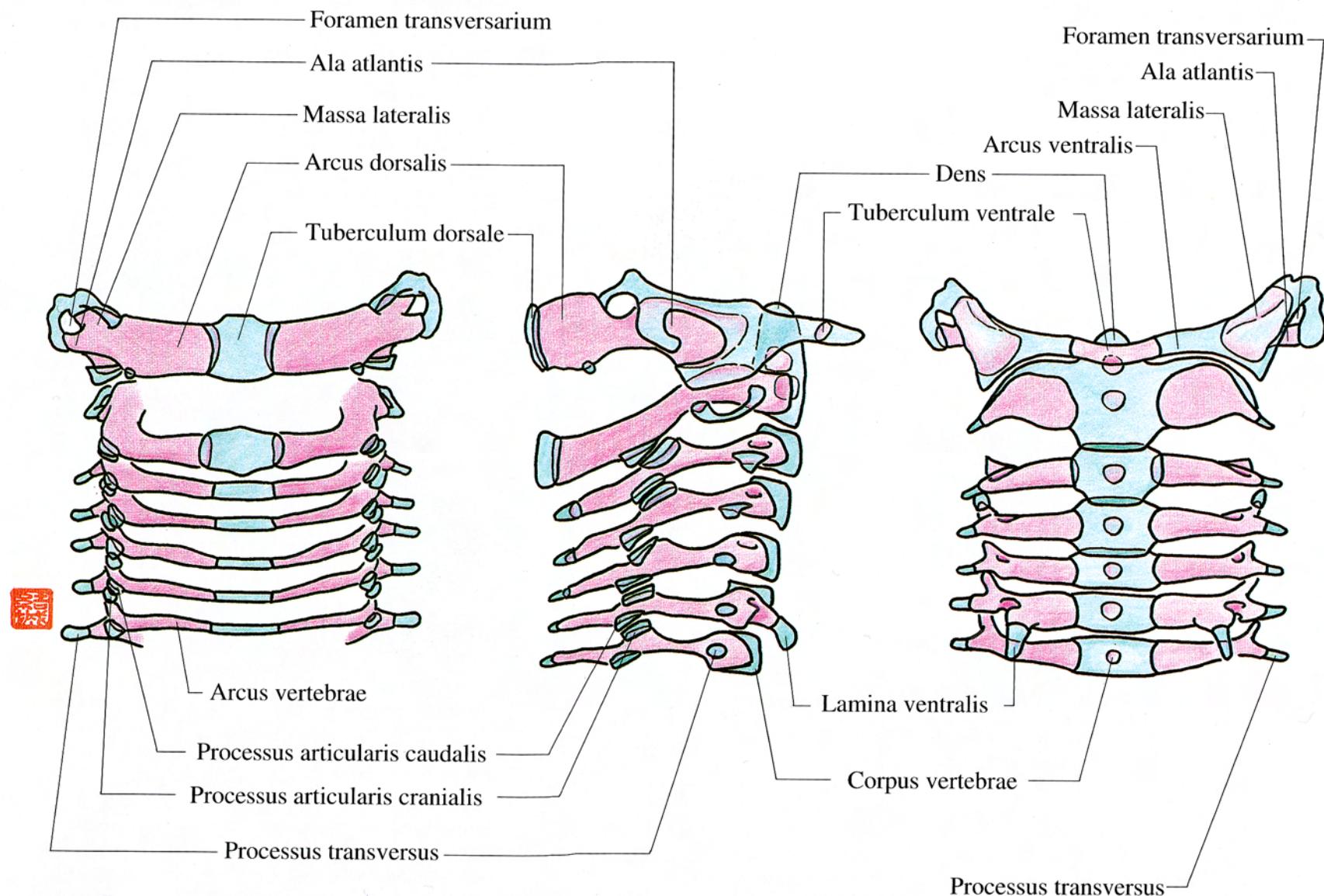
**Fig. 8 Clavicula, Sternum, et Costae:** *ventral and lateral aspects*

Ala atlantis	atlas wing	環椎翼
Arcus dorsalis	dorsal arch	背弓
Arcus ventralis	ventral arch	腹弓
Dens	dens	齒突起
Foramen transversarium	transverse foramen	橫突孔
Foramen vertebrae	vertebral foramen	椎孔
Fovea articularis cranialis	cranial articular facet	前關節窩
Processus articularis	articular process	關節突起
Tuberculum dorsale	dorsal tubercle	背結節
Tuberculum ventrale	ventral tubercle	腹結節



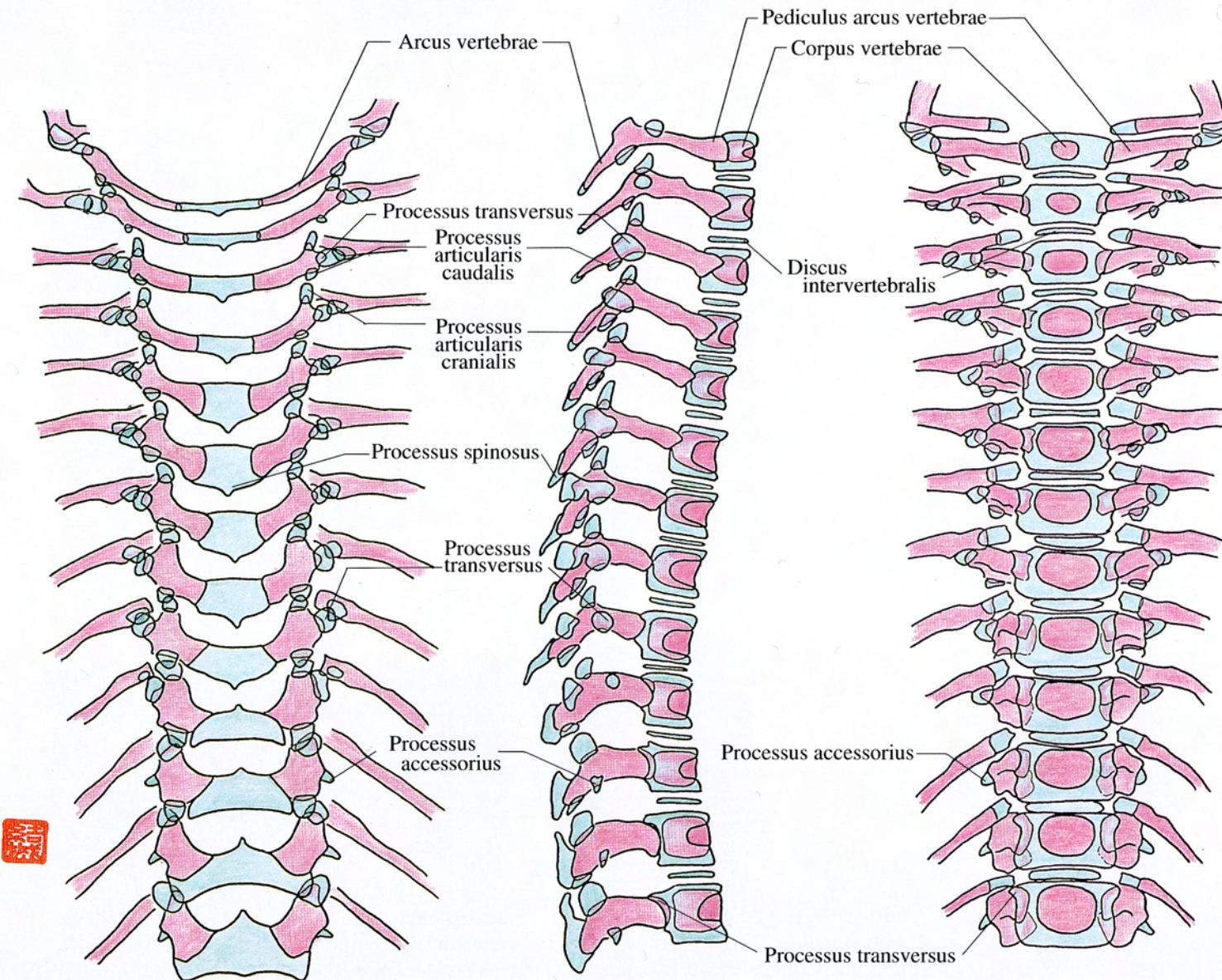
**Fig. 9 Atlas et Axis: rostral aspect**

Ala atlantis	atlas wing	環椎翼
Arcus dorsalis	dorsal arch	背弓
Arcus ventralis	ventral arch	腹弓
Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Dens	dens	齒突起
Foramen transversarium	transverse foramen	橫突孔
Lamina ventralis (C6)	ventral plate (C6)	腹板（第 6 頸椎）
Massa lateralis	lateral mass	外側塊
Processus articularis caudalis	caudal articular process	後關節突起
Processus articularis cranialis	cranial articular process	前關節突起
Processus transversus	transverse process	橫突起
Tuberculum dorsale	dorsal tubercle	背結節
Tuberculum ventrale	ventral tubercle	腹結節



**Fig. 10 Vertebrae cervicales: dorsal, lateral, and ventral aspects**

Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Discus intervertebralis	intervertebral disc	椎間円板
Pediculus arcus vertebrae	pedicle of the vertebral arch	椎弓根
Processus accessorius	accessory process	副突起
Processus articularis caudalis	caudal articular process	後関節突起
Processus articularis cranialis	cranial articular process	前関節突起
Processus spinosus	spinous process	棘突起
Processus transversus	transverse process	横突起

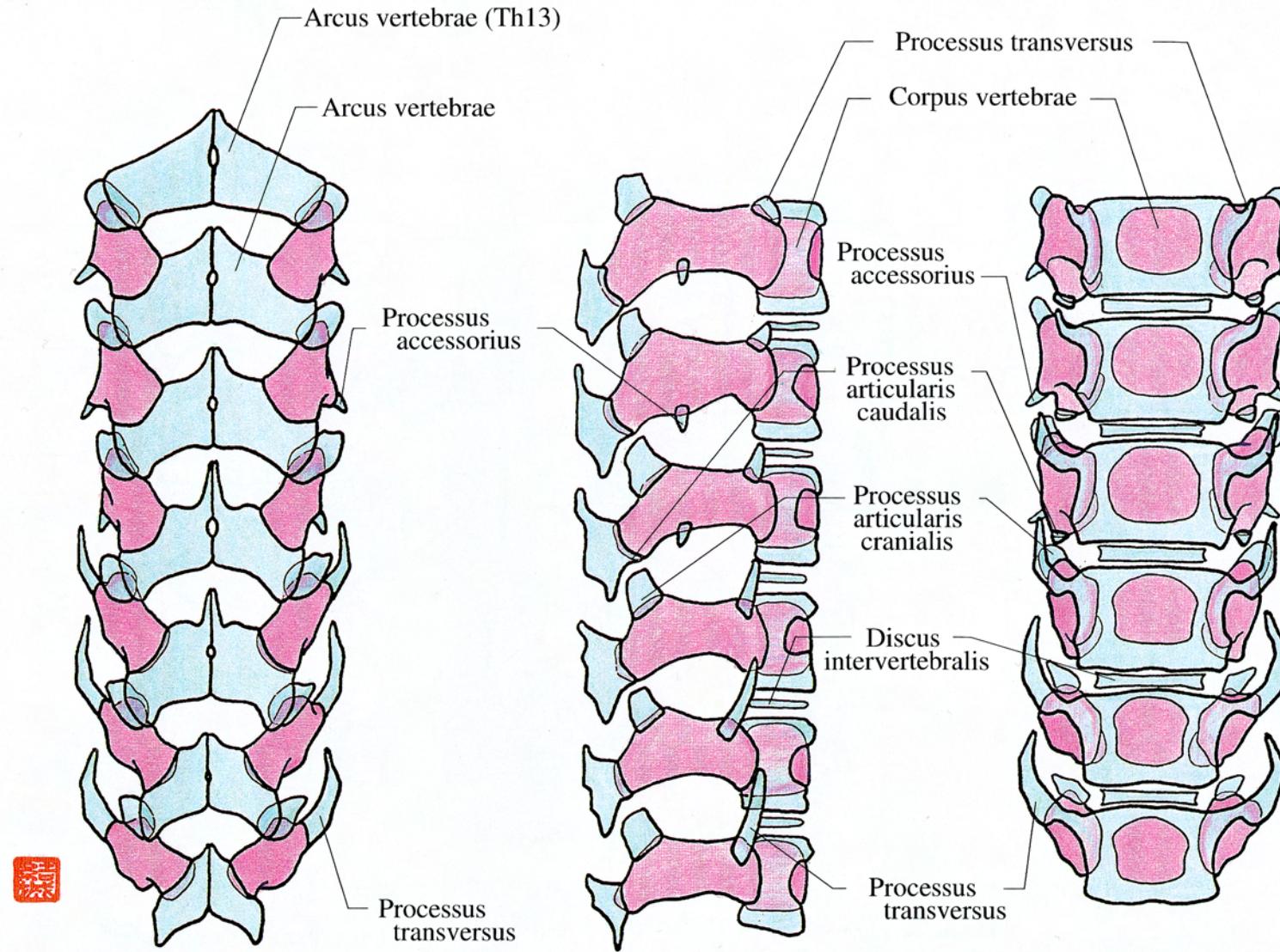


**Fig. 11 Vertebrae thoracicae: dorsal, lateral, and ventral aspects**

Arcus vertebrae  
Corpus vertebrae  
Discus intervertebralis  
Processus accessorius  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

vertebral arch  
vertebral body  
intervertebral disc  
accessory process  
caudal articular process  
cranial articular process  
transverse process

椎弓  
椎体  
椎間円板  
副突起  
後関節突起  
前関節突起  
横突起

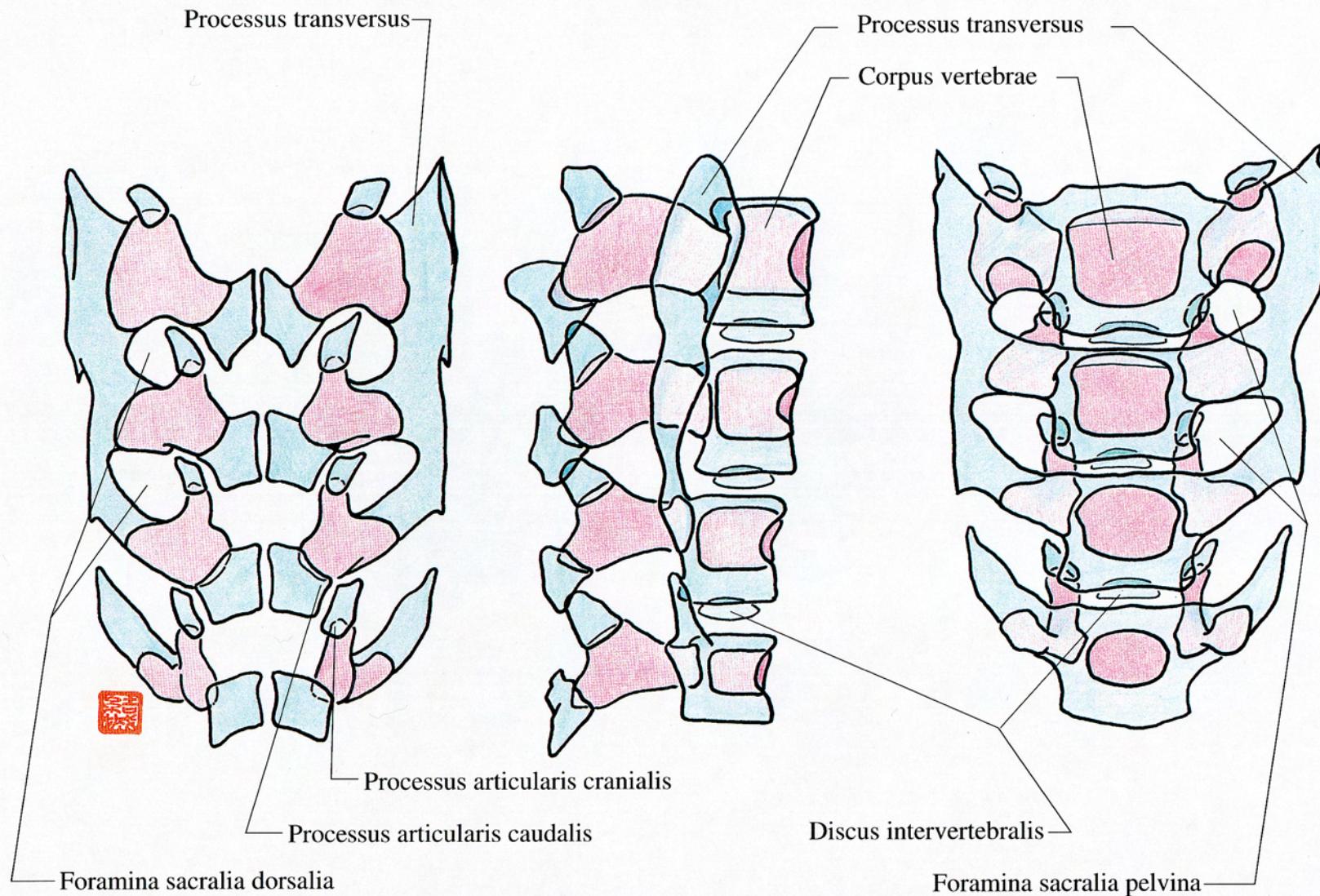


**Fig. 12 Vertebrae lumbales: dorsal, lateral, and ventral aspects**

Corpus vertebrae  
Discus intervertebralis  
Foramina sacralia dorsalia  
Foramina sacralia pelvina  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

vertebral body  
intervertebral disc  
dorsal sacral foramina  
pelvic sacral foramina  
caudal articular process  
cranial articular process  
transverse process

椎体  
椎間円板  
後仙骨孔  
前仙骨孔  
後関節突起  
前關節突起  
横突起

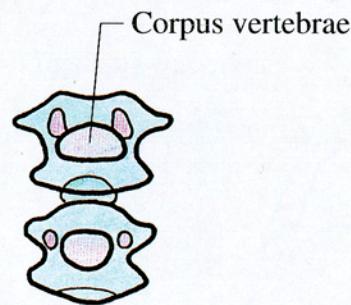
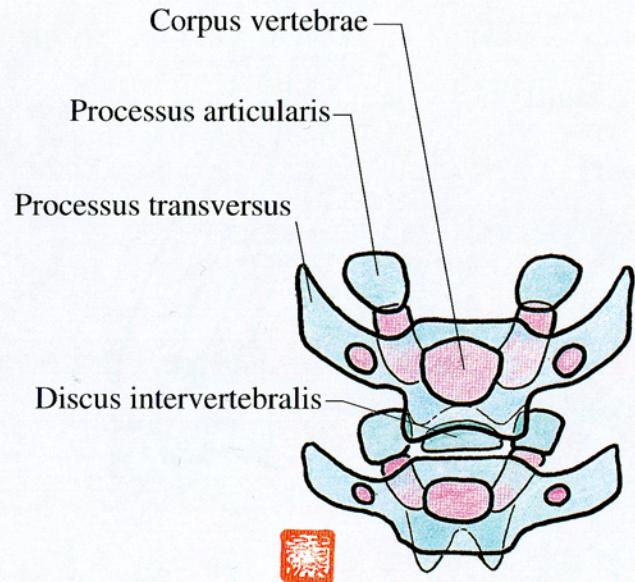


**Fig. 13 Vertebrae sacrales: dorsal, lateral, and ventral aspects**

Corpus vertebrae  
Discus intervertebralis  
Processus articularis  
Processus transversus

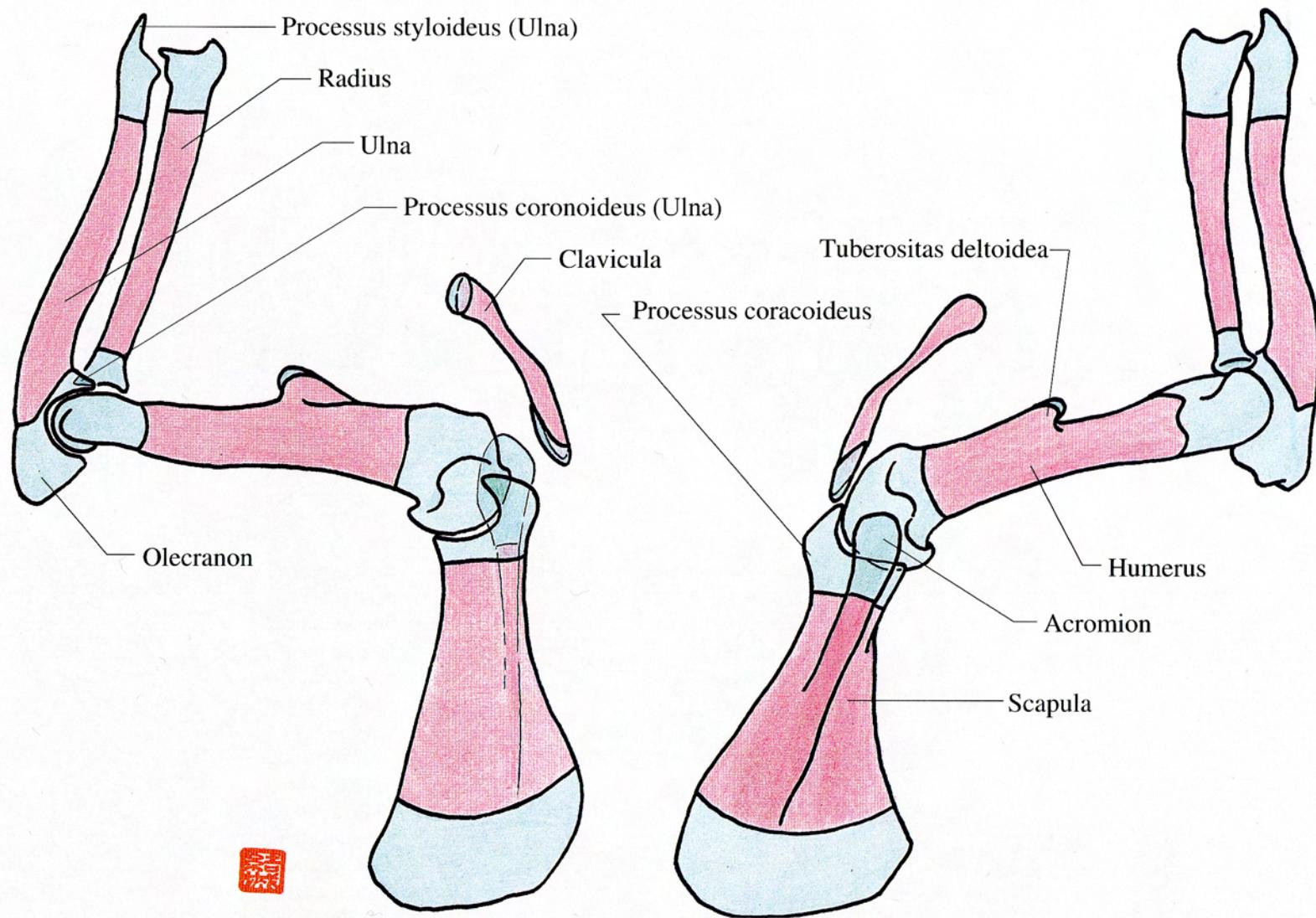
vertebral body  
intervertebral disc  
articular process  
transverse process

椎体  
椎間円板  
関節突起  
横突起



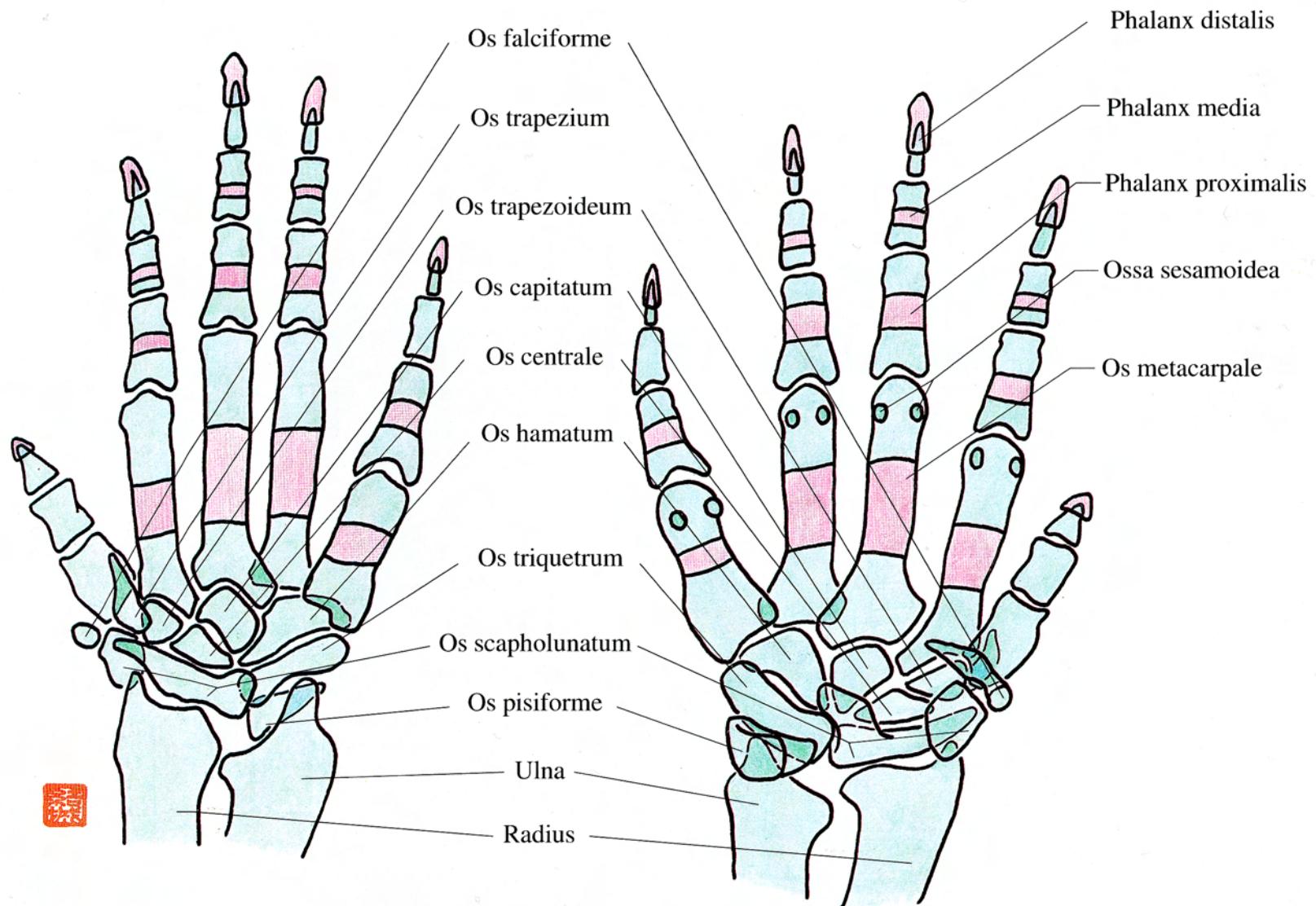
**Fig. 14 Vertebrae caudales: ventral aspect**

Acromion	acromion	肩峰
Clavicula	clavicle	鎖骨
Humerus	humerus	上腕骨
Olecranon	olecranon	肘頭
Processus coracoideus	coracoid process	烏口突起
Processus coronoideus (Ulna)	coronoid process (ulna)	鈎突起 (肩甲骨)
Processus styloideus (Ulna)	styloid process (ulna)	茎状突起 (尺骨)
Radius	radius	橈骨
Scapula	scapula	肩甲骨
Tuberositas deltoidea	deltoid tuberosity	三角筋粗面
Ulna	ulna	尺骨



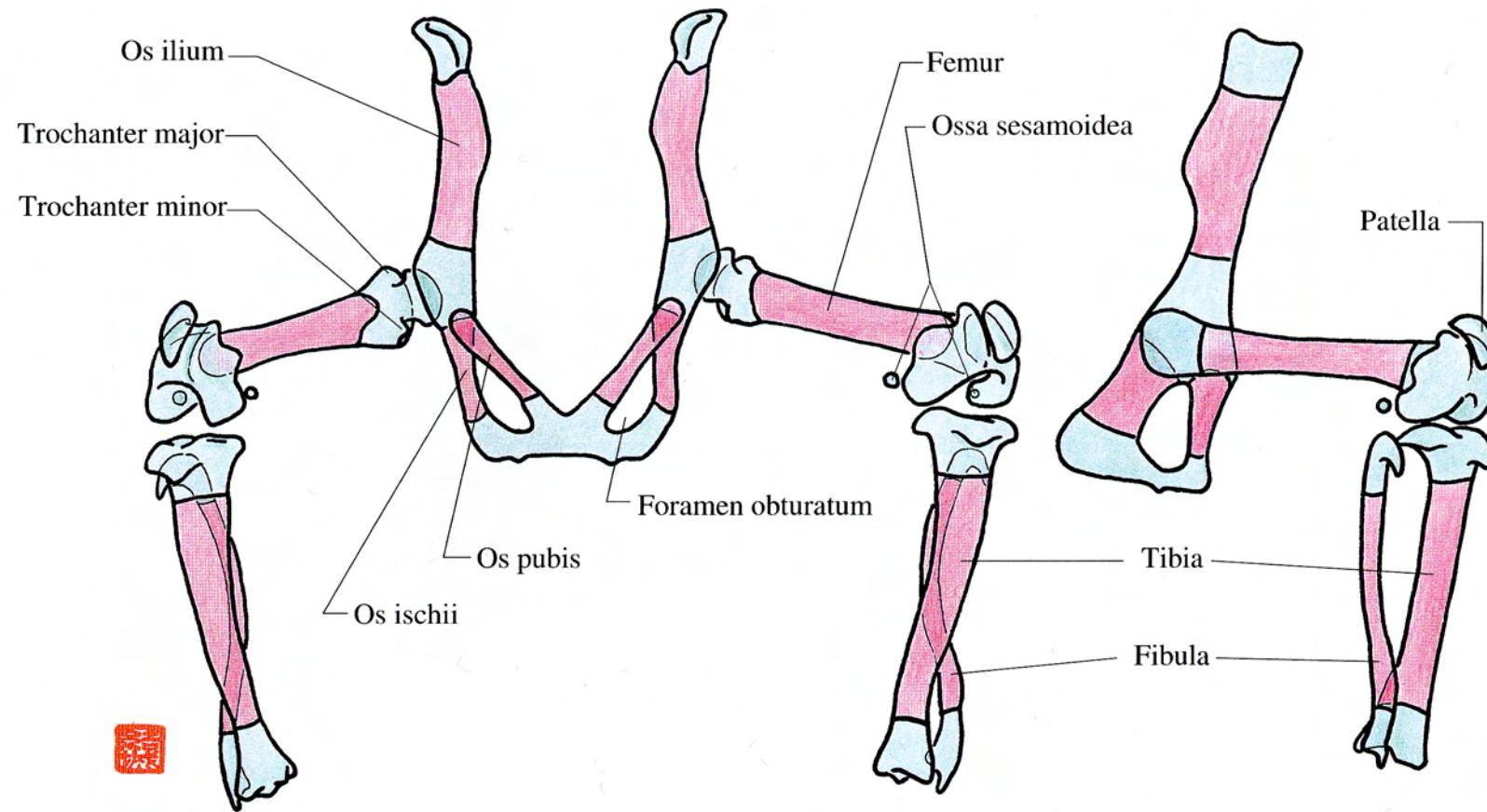
**Fig. 15 Ossa membra thoracici: ventromedial and dorsolateral aspects**

Os capitatum	capitate bone	有頭骨
Os centrale	central bone	中心手根骨
Os falciforme	falciform bone	鎌狀骨
Os hamatum	hamate bone	有鈎骨
Os metacarpale	metacarpal bone	中手骨
Os pisiforme	pisiform bone	豆狀骨
Os scapholunatum	scapholunate bone	舟狀月狀骨
Os trapezium	trapezium bone	大菱形骨
Os trapezoideum	trapezoid bone	小菱形骨
Os triquetrum	triquetal bone	三角骨
Ossa sesamoidea	sesamoid bones	種子骨
Phalanx distalis	distal phalanx	末節骨
Phalanx media	middle phalanx	中節骨
Phalanx proximalis	proximal phalanx	基節骨
Radius	radius	橈骨
Ulna	ulna	尺骨



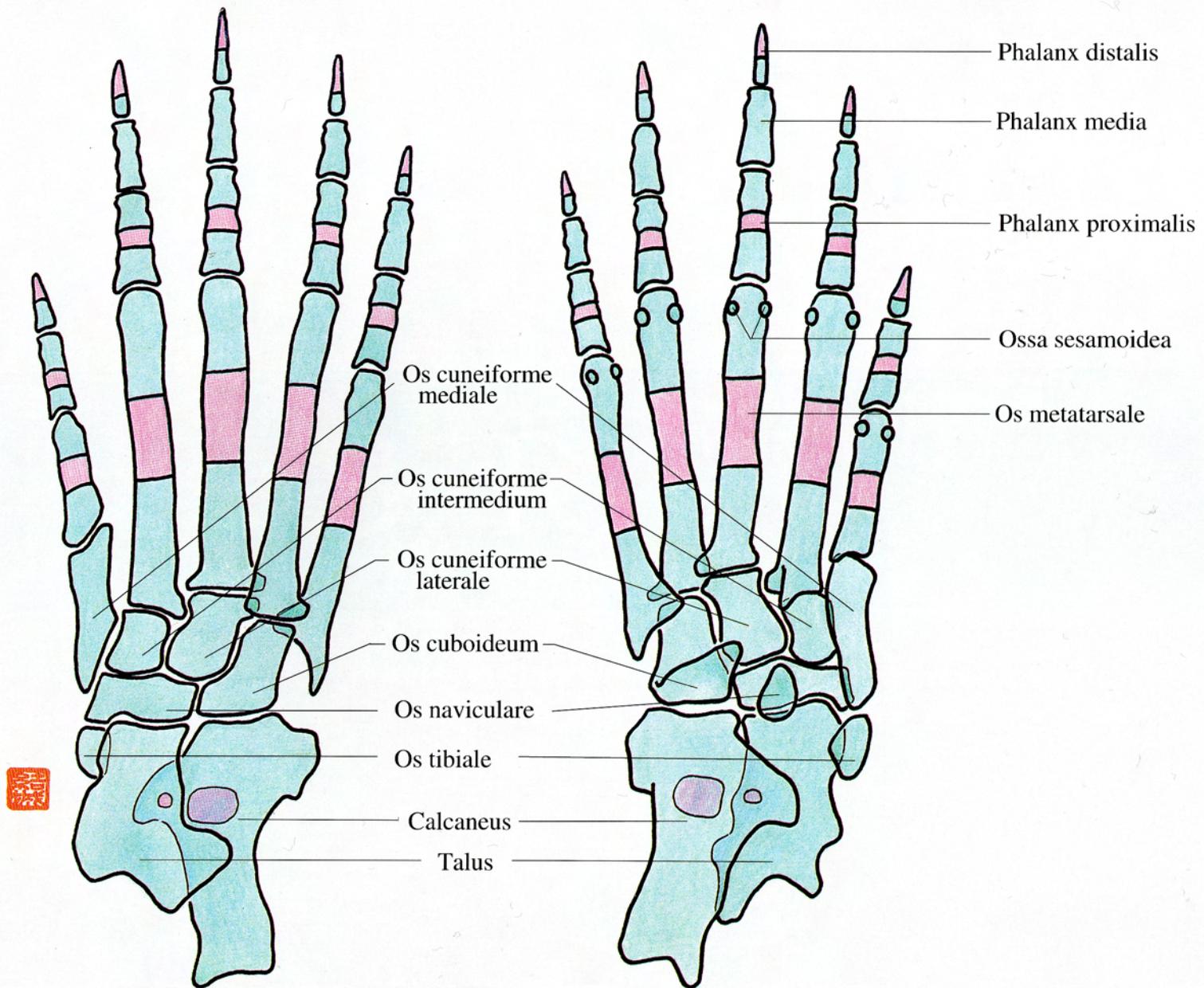
**Fig. 16 Skeleton manus: dorsal and palmar aspects**

Femur	femur (thigh bone)	大腿骨
Fibula	fibula (calf bone, splinter bone)	腓骨
Foramen obturatum	obturator foramen	閉鎖孔
Os ilium	ilium	腸骨
Os ischii	ischium	坐骨
Os pubis	pubis	恥骨
Ossa sesamoidea	sesamoid bones	種子骨
Patella	knee-cap (knee-pan)	膝蓋骨
Tibia	tibia (shin bone)	脛骨
Trochanter major	greater trochanter	大転子
Trochanter minor	lesser trochanter	小転子



**Fig. 17 Ossa membra pelvini: ventral and lateral aspects**

Calcaneus (Os calcis)	calcaneum (heel bone)	踵骨
Os cuboideum	cuboid bone	立方骨
Os cuneiforme intermedium	intermediate cuneiform bone	中間楔状骨
Os cuneiforme laterale	lateral cuneiform bone	外側楔状骨
Os cuneiforme mediale	medial cuneiform bone	内側楔状骨
Os metatarsale	metatarsal bone	中足骨
Os naviculare	navicular bone	舟状骨
Os tibiale	tibial tarsal bone	脛側足根骨
Ossa sesamoidea	sesamoid bones	種子骨
Phalanx distalis	distal phalanx	末節骨
Phalanx media	middle phalanx	中節骨
Phalanx proximalis	proximal phalanx	基節骨
Talus	talus	距骨

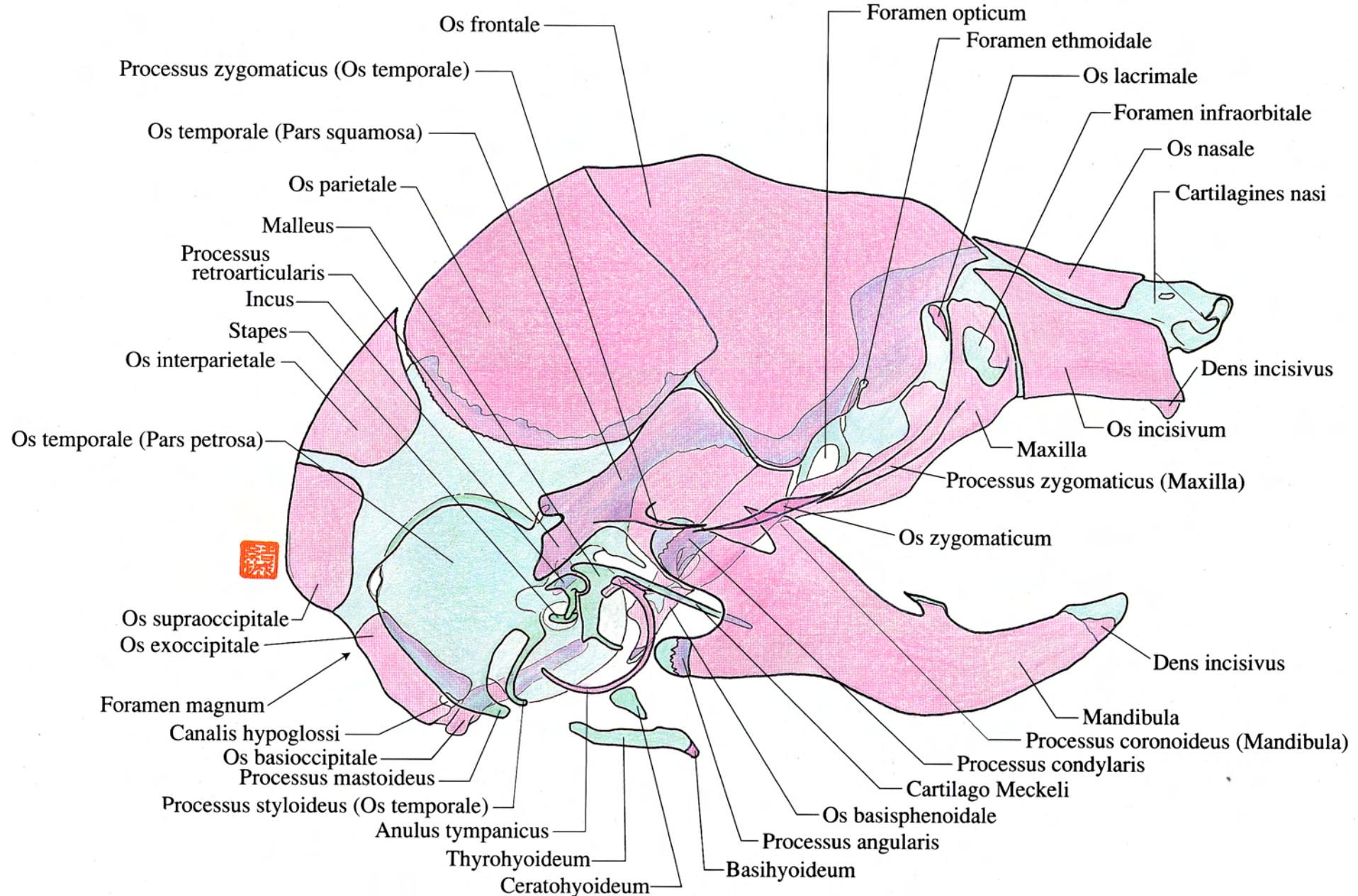


**Fig. 18 Skeleton pedis: dorsal and plantar aspects**

B. RAT

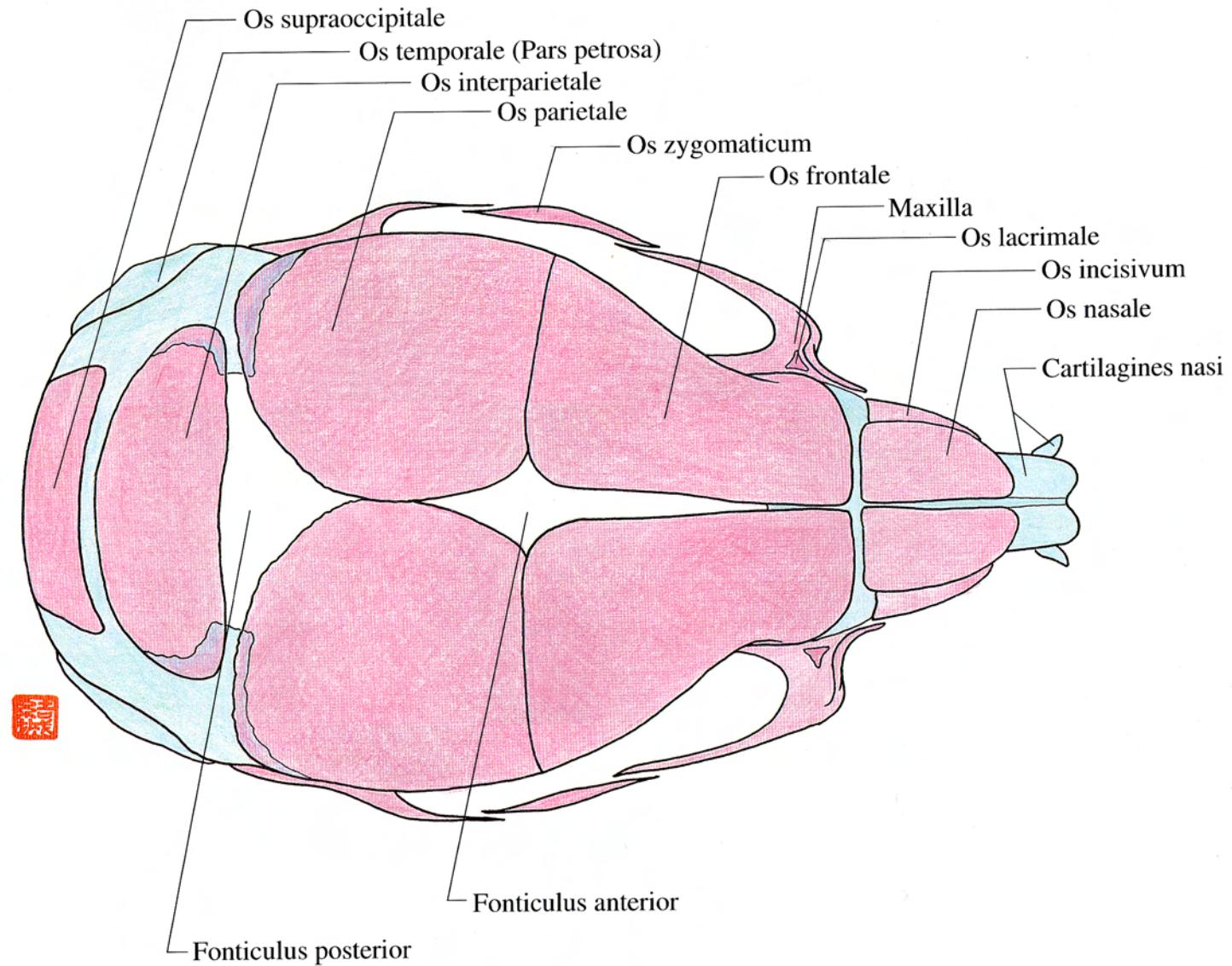
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Anulus tympanicus	tympanic ring	鼓室輪
Basihyoideum	basihyoid	底舌骨
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagine nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Ceratohyoideum	ceratohyoid	角舌骨
Dens incisivus	incisor	切歯
Foramen ethmoidale	ethmoidal foramen	篩骨孔
Foramen infraorbitale	infraorbital foramen	眼窓下孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Incus	anvil	キヌタ骨
Malleus	hammer	ツチ骨
Mandibula	mandible	下顎骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歯骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os supraoccipitale	supraoccipital bone	上後頭骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus angularis	angular process	角突起
Processus condylaris	condylar process	関節突起
Processus coronoideus (Mandibula)	coronoid process (mandible)	筋突起（下顎骨）
Processus mastoideus	mastoid process	乳様突起
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起（上顎骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アズミ骨
Thyrohyoideum	thyrohyoid bone	甲状舌骨（大角）



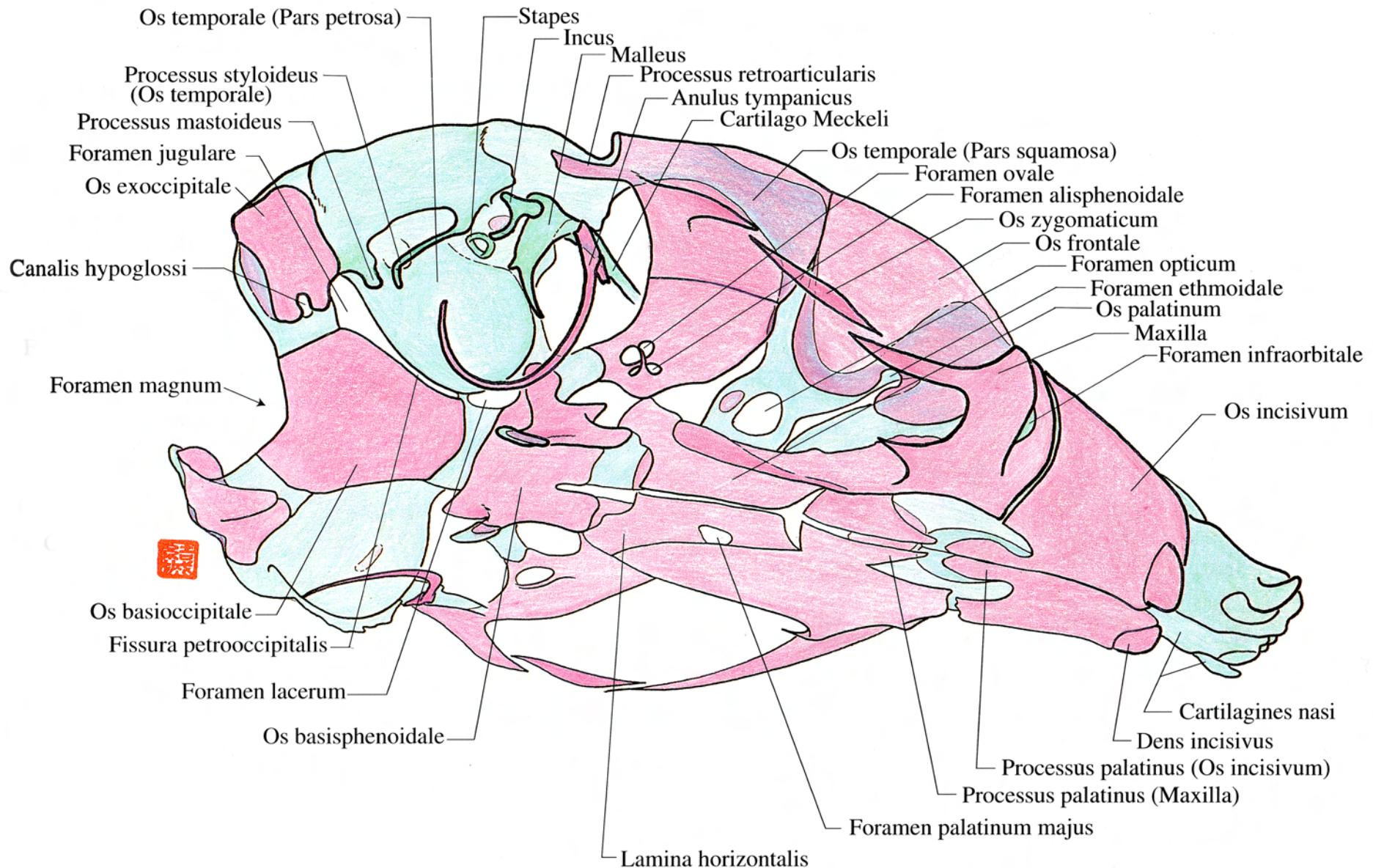
**Fig. 19 Cranium: lateral aspect**

Cartilagines nasi	cartilages of the nose	鼻軟骨
Fonticulus anterior	anterior fontanelle	大泉門
Fonticulus posterior	posterior fontanelle	小泉門
Maxilla	maxilla	上顎骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歯骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os supraoccipitale	supraoccipital bone	上後頭骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os zygomaticum	zygomatic bone	頬骨



**Fig. 20 Cranium: dorsal aspect**

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus	incisor	切歯
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen alisphenoidale	alisphenoid foramen	翼蝶形孔
Foramen ethmoidale	ethmoidal foramen	篩骨孔
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Foramen palatinum majus	major palatine foramen	大口蓋孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歯骨
Os palatinum	palatine bone	口蓋骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus mastoideus	mastoid process	乳様突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切歯骨）
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Stapes	stirrup	アブミ骨



**Fig. 21 Cranium: ventrolateral aspect**

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagine nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus	incisor	切齒
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen magnum	foramen magnum	大後頭孔
Foramen ovale	oval foramen	卵円孔
Foramen palatinum majus	major palatine foramen	大口蓋孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切齒骨
Os palatinum	palatine bone	口蓋骨
Os pterygoideum	pterygoid bone	翼狀骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus mastoideus	mastoid process	乳様突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切齒骨）
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起（上顎骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アズミ骨

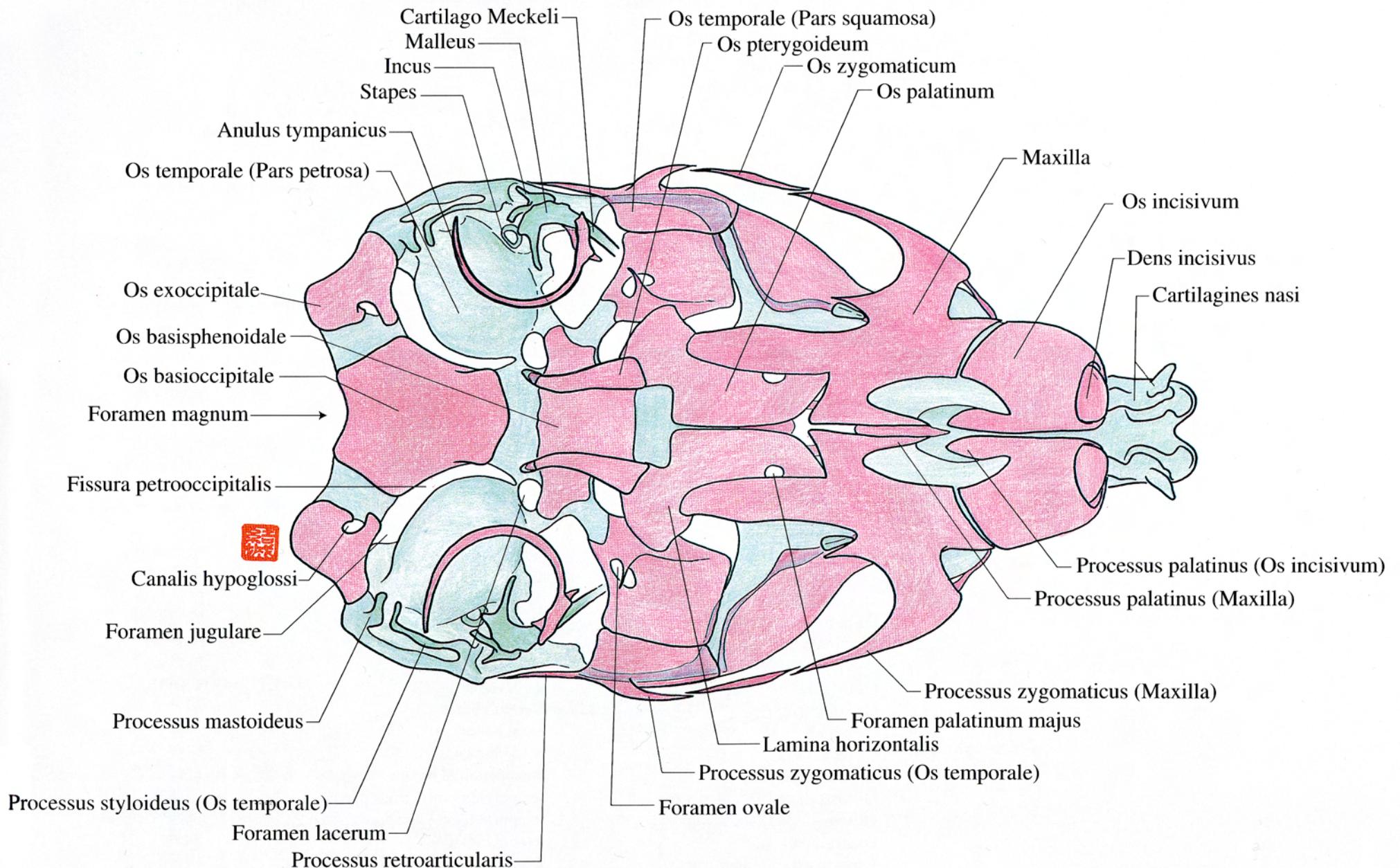
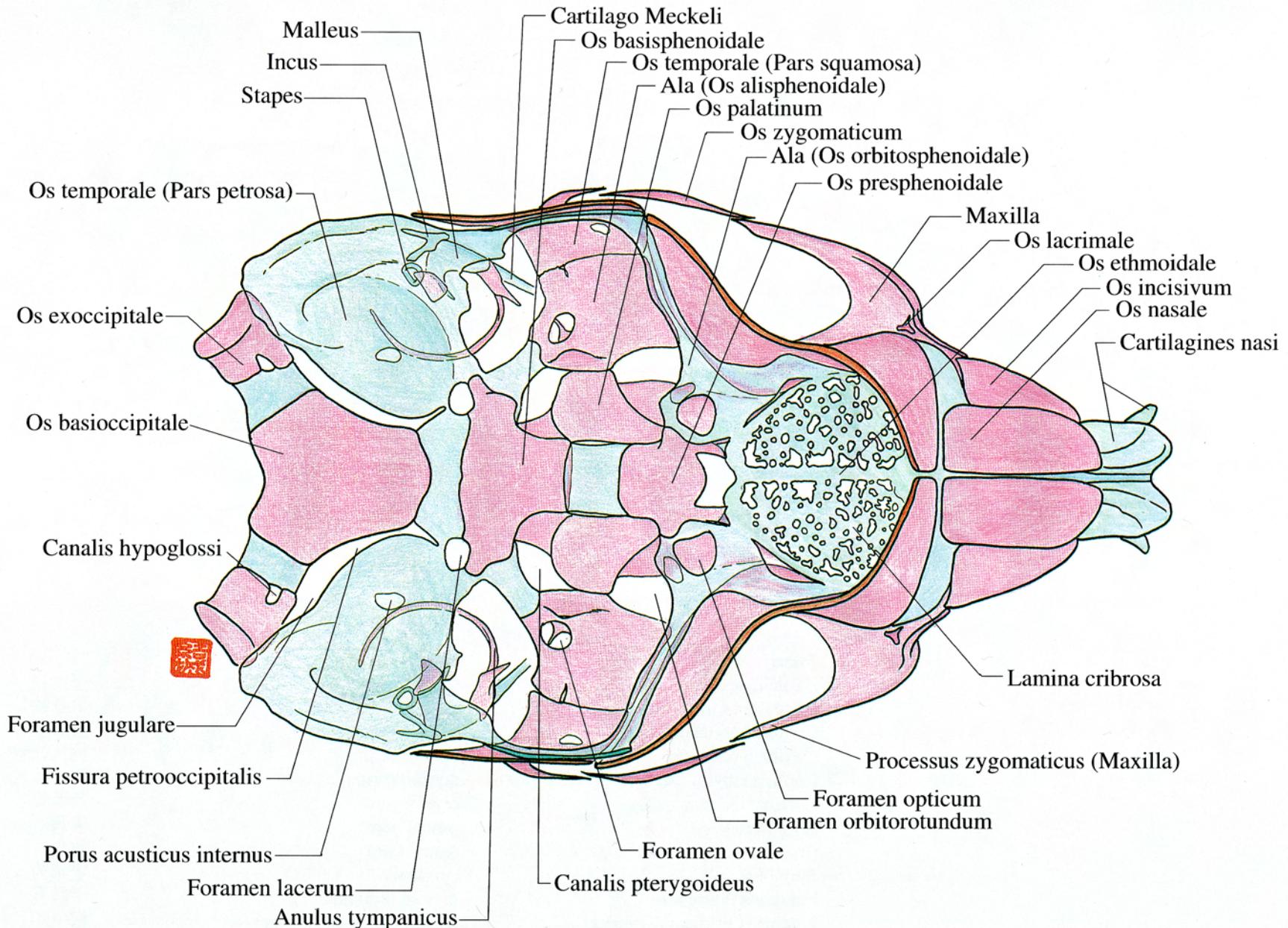


Fig. 22 Basis cranii externa: *ventral aspect*

Ala (Os alisphenoidale)	wing (alisphenoid bone)	翼 (蝶形骨)
Ala (Os orbitosphenoidale)	wing (orbitosphenoid bone)	翼 (眼窩蝶形骨)
Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Canalis pterygoideus	pterygoid canal	翼突管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メックル軟骨
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen opticum	optic foramen	視神經孔
Foramen orbitotundum	orbitotund foramen	眼窩正円孔
Foramen ovale	oval foramen	卵円孔
Incus	anvil	キヌタ骨
Lamina cribrosa	cribriform plate	篩板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os ethmoidale	ethmoid bone	篩骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切歯骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os palatinum	palatine bone	口蓋骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨 (岩様部)
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨 (鱗部)
Os zygomaticum	zygomatic bone	頬骨
Porus acusticus internus	internal auditory opening	内耳孔
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起 (上顎骨)
Stapes	stirrup	アブミ骨

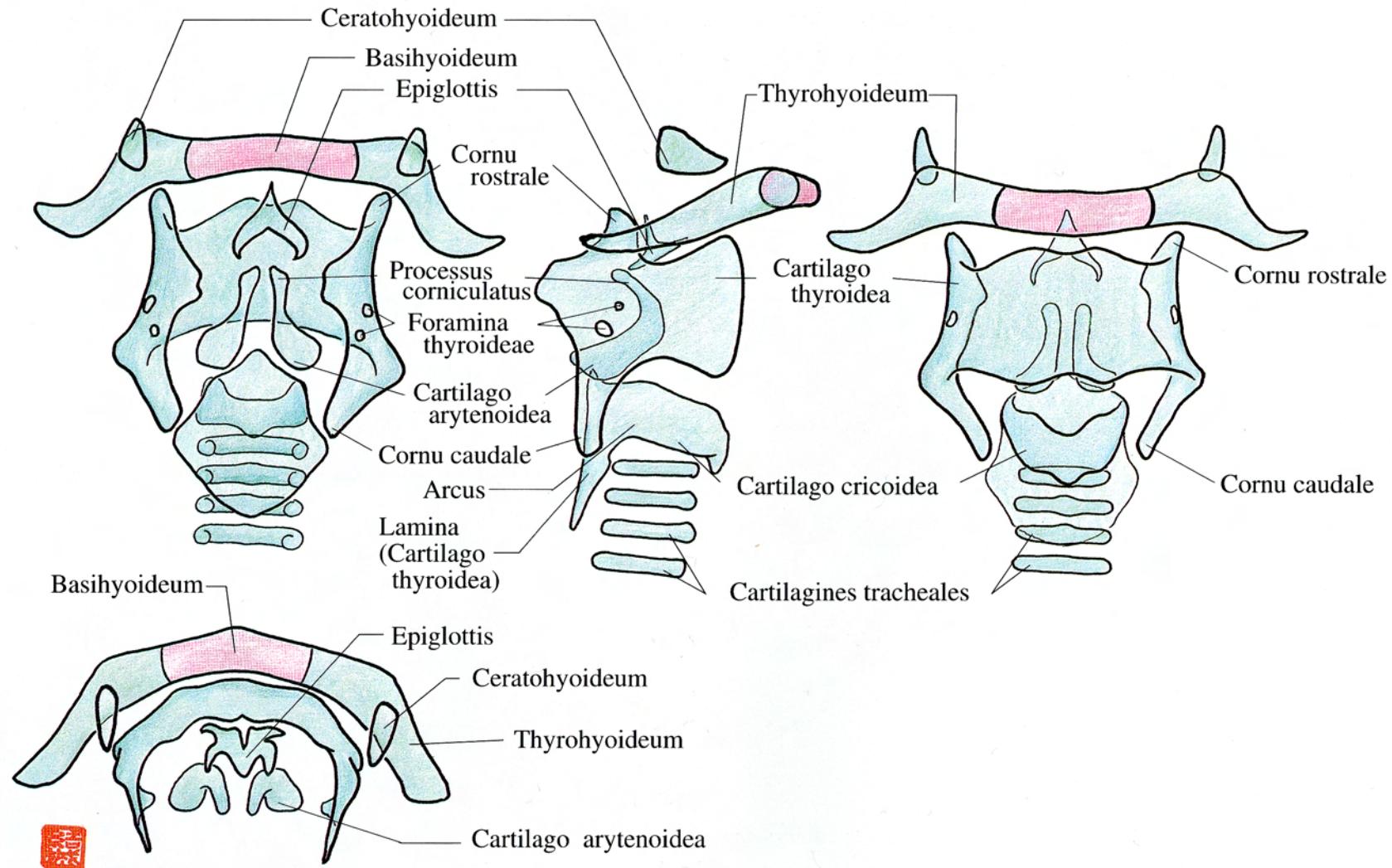


**Fig. 23 Basis cranii interna: dorsal aspect**

Arcus  
Basihyoideum  
Cartilagines tracheales  
Cartilago arytenoidea  
Cartilago cricoidea  
Cartilago thyroidea  
Ceratohyoideum  
Cornu caudale  
Cornu rostrale  
Epiglottis  
Foramina thyroideae  
Lamina (Cartilago thyroidea)  
Processus corniculatus  
Thyrohyoideum

arch  
basihyoid  
tracheal cartilages  
arytenoid cartilage  
cricoid cartilage  
thyroid cartilage  
ceratohyoid  
caudal horn  
rostral horn  
epiglottis  
thyroid foramina  
lamina (thyroid cartilage)  
corniculate process  
thyrohyoid bone

弓  
底舌骨  
氣管軟骨  
披裂軟骨  
輪狀軟骨  
甲状軟骨  
角舌骨  
後角  
前角  
喉頭蓋  
甲状孔  
板（甲状軟骨）  
小角突起  
甲状舌骨（大角）

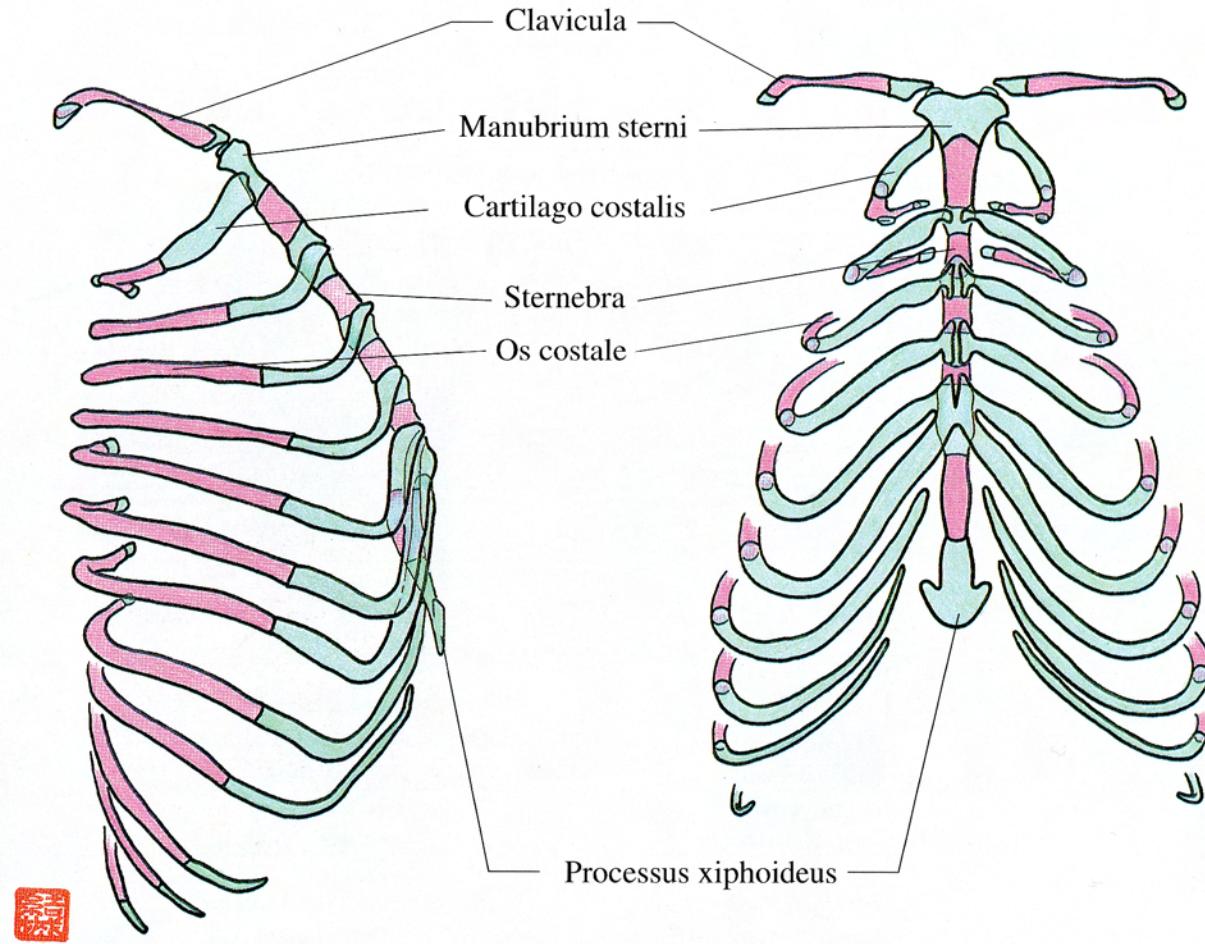


**Fig. 24 Os hyoideum et Cartilagines laryngis: dorsal, lateral, ventral, and cranial aspects**

Cartilago costalis  
Clavicula  
Manubrium sterni  
Os costale  
Processus xiphoideus  
Sternebra

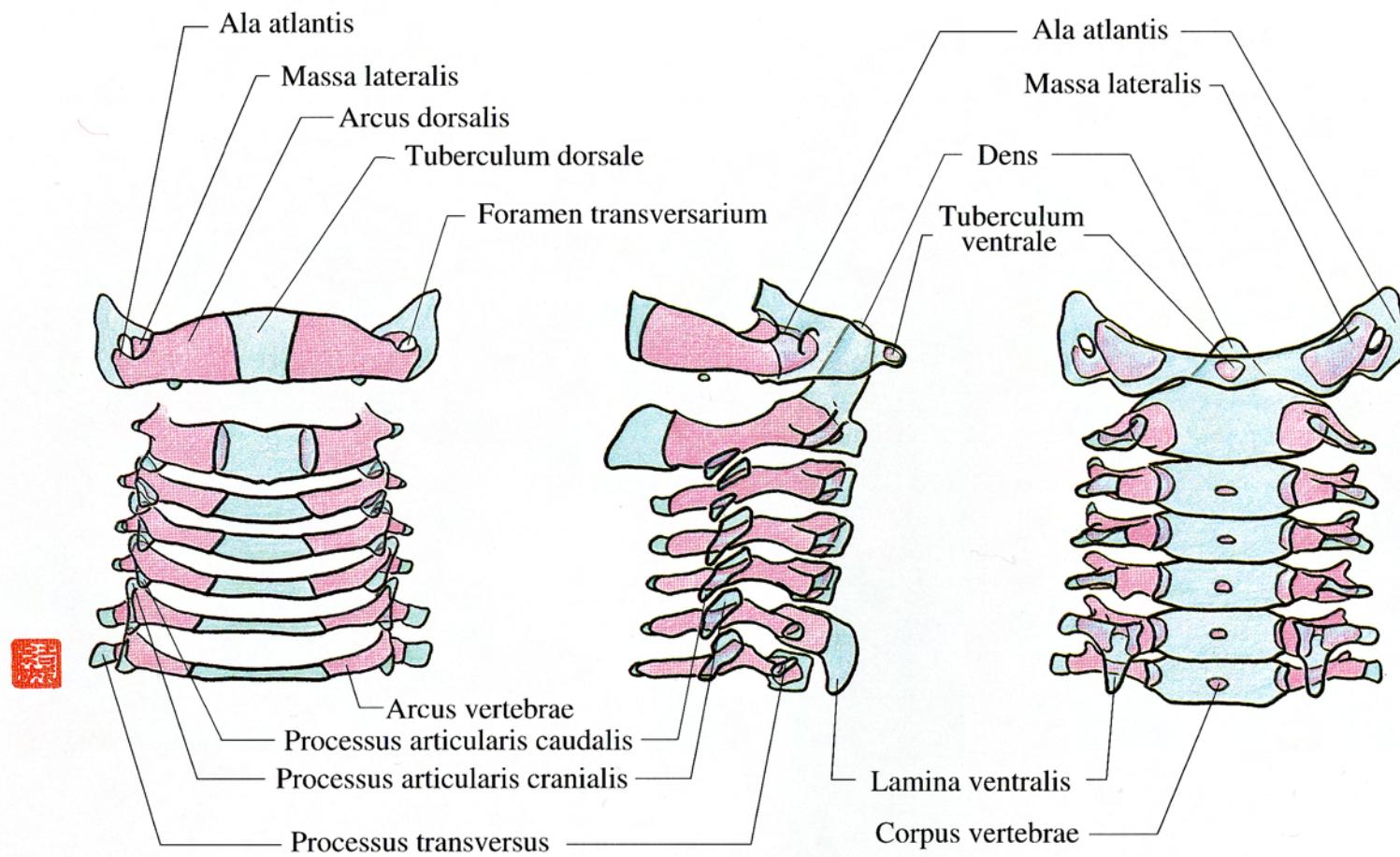
costal cartilage  
clavicle  
manubrium  
costal bone  
xiphoid process  
sternebra

肋軟骨  
鎖骨  
胸骨柄  
肋硬骨  
劍狀突起  
胸骨分節



**Fig. 25 Clavicula, Sternum, et Costae:** *lateral and ventral aspects*

Ala atlantis	atlas wing	環椎翼
Arcus dorsalis	dorsal arch	背弓
Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Dens	dens	齒突起
Foramen transversarium	transverse foramen	橫突孔
Lamina ventralis (C6)	ventral plate (C6)	腹板（第6頸椎）
Massa lateralis	lateral mass	外側塊
Processus articularis caudalis	caudal articular process	後關節突起
Processus articularis cranialis	cranial articular process	前關節突起
Processus transversus	transverse process	橫突起
Tuberculum dorsale	dorsal tubercle	背結節
Tuberculum ventrale	ventral tubercle	腹結節

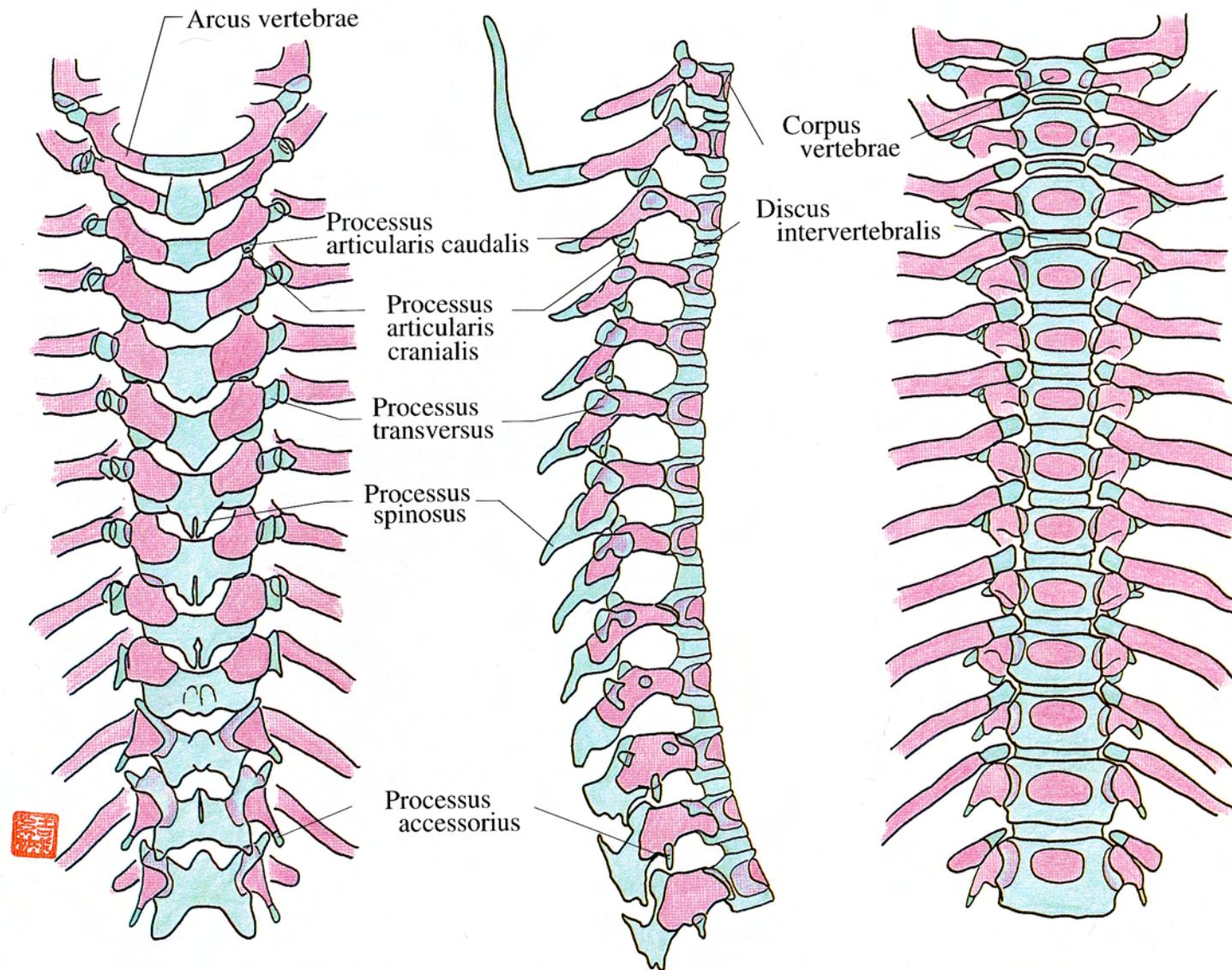


**Fig. 26 Vertebrae cervicales: dorsal, lateral, and ventral aspects**

Arcus vertebrae  
Corpus vertebrae  
Discus intervertebralis  
Processus accessorius  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

vertebral arch  
vertebral body  
intervertebral disc  
accessory process  
caudal articular process  
cranial articular process  
transverse process

椎弓  
椎体  
椎間円板  
副突起  
後関節突起  
前関節突起  
横突起

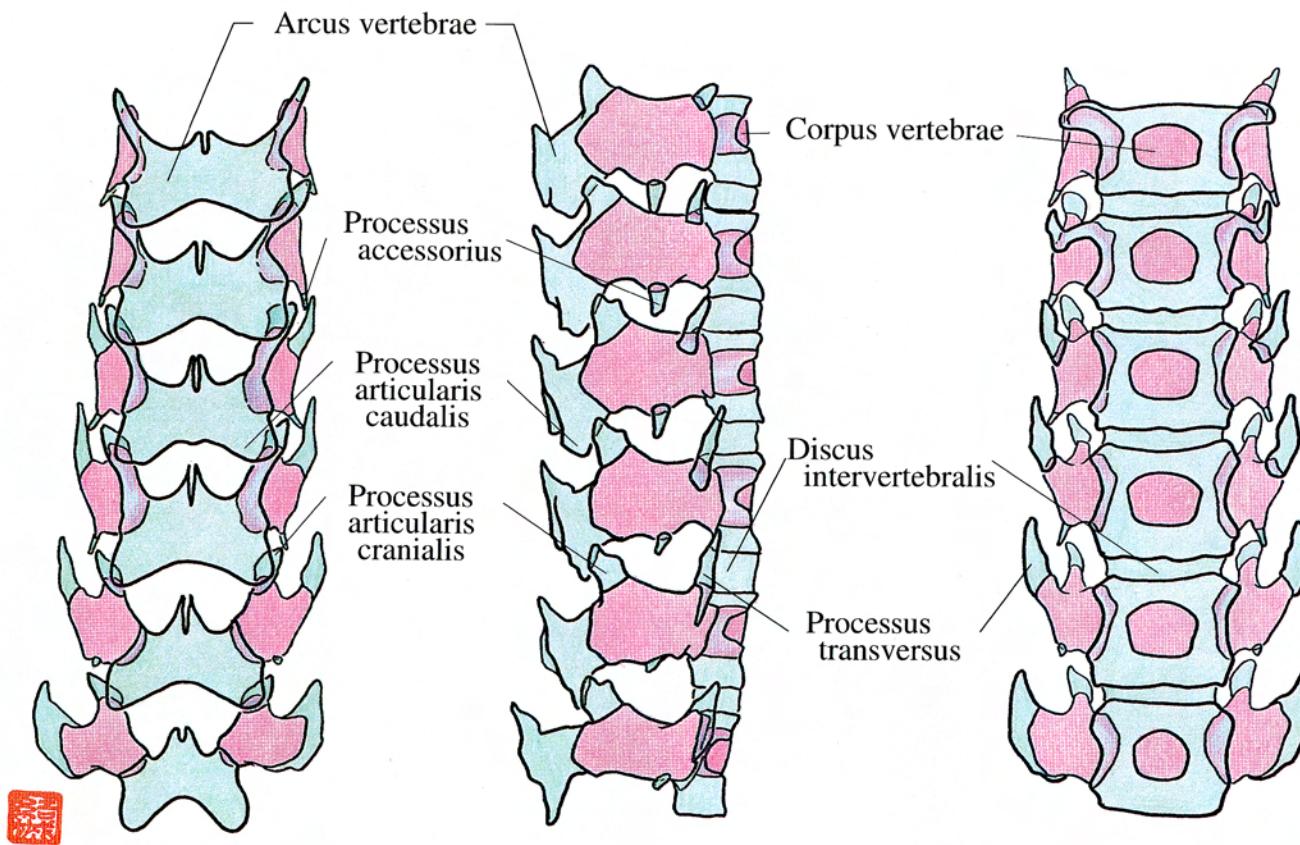


**Fig. 27 Vertebrae thoracicae: dorsal, lateral, and ventral aspects**

Arcus vertebrae  
Corpus vertebrae  
Discus intervertebralis  
Processus accessorius  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

vertebral arch  
vertebral body  
intervertebral disc  
accessory process  
caudal articular process  
cranial articular process  
transverse process

椎弓  
椎体  
椎間円板  
副突起  
後関節突起  
前関節突起  
横突起

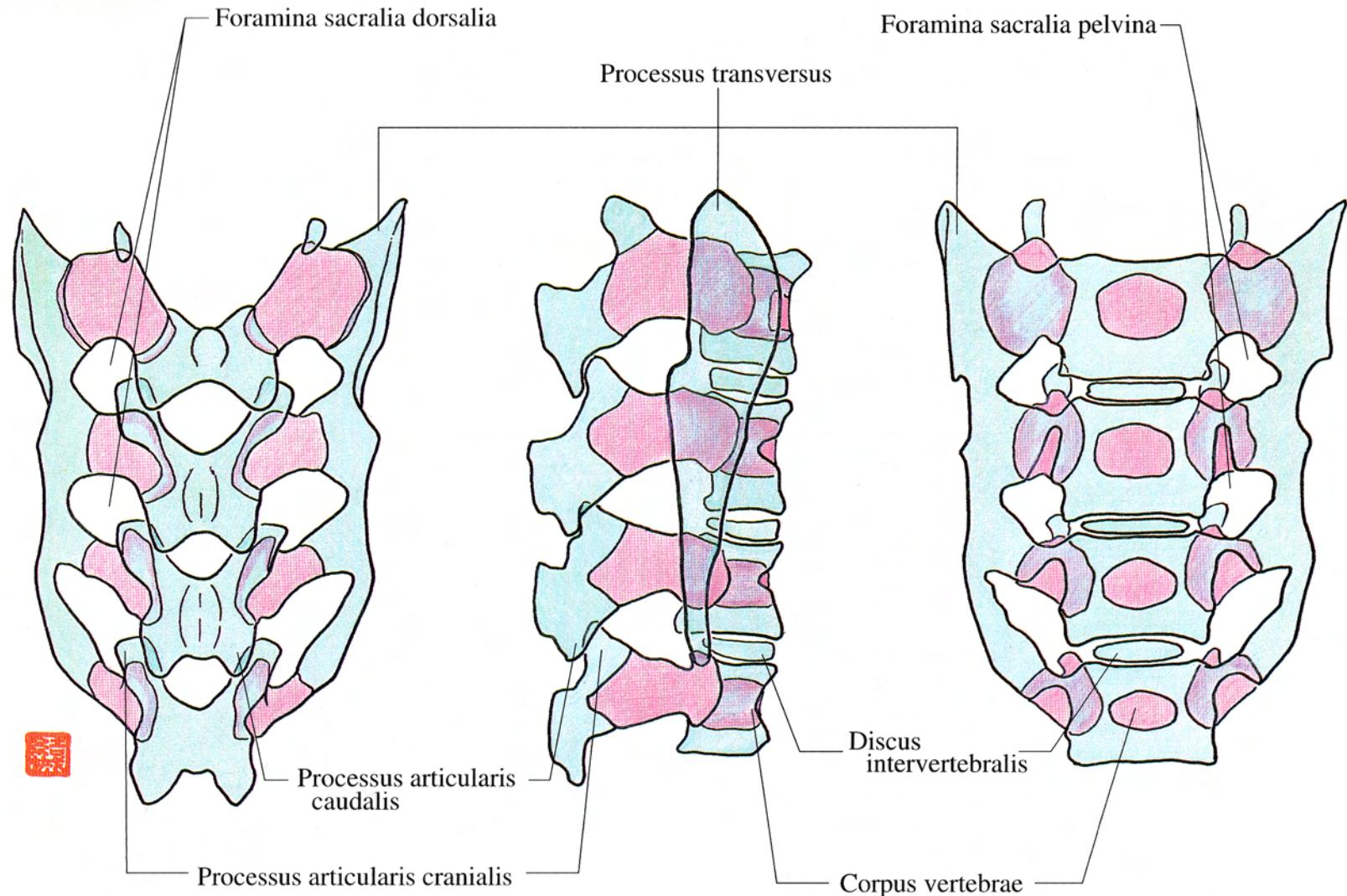


**Fig. 28 Vertebrae lumbales: dorsal, lateral, and ventral aspects**

Corpus vertebrae  
Discus intervertebralis  
Foramina sacralia dorsalia  
Foramina sacralia pelvina  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

vertebral body  
intervertebral disc  
dorsal sacral foramina  
pelvic sacral foramina  
caudal articular process  
cranial articular process  
transverse process

椎体  
椎間円板  
後仙骨孔  
前仙骨孔  
後関節突起  
前関節突起  
横突起

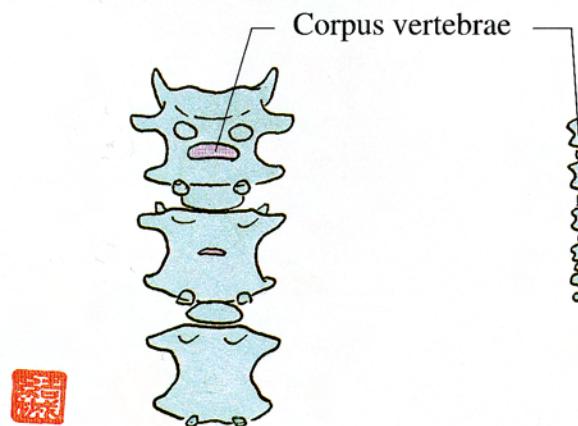
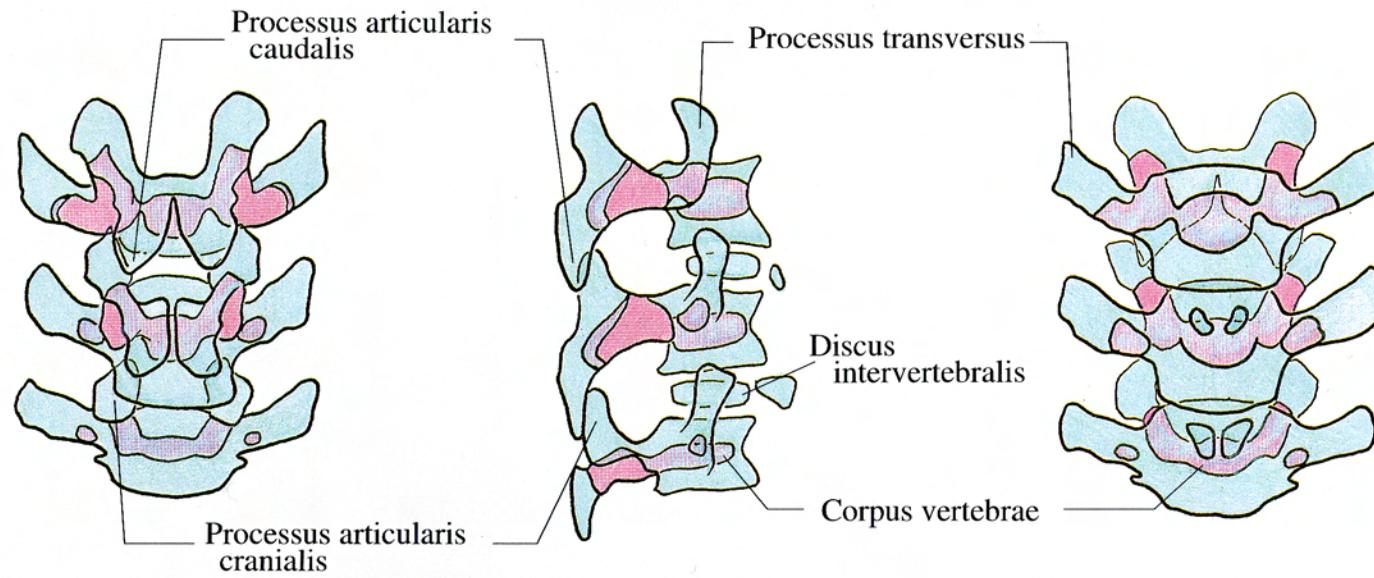


**Fig. 29 Vertebrae sacrales: dorsal, lateral, and ventral aspects**

Corpus vertebrae  
Discus intervertebralis  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

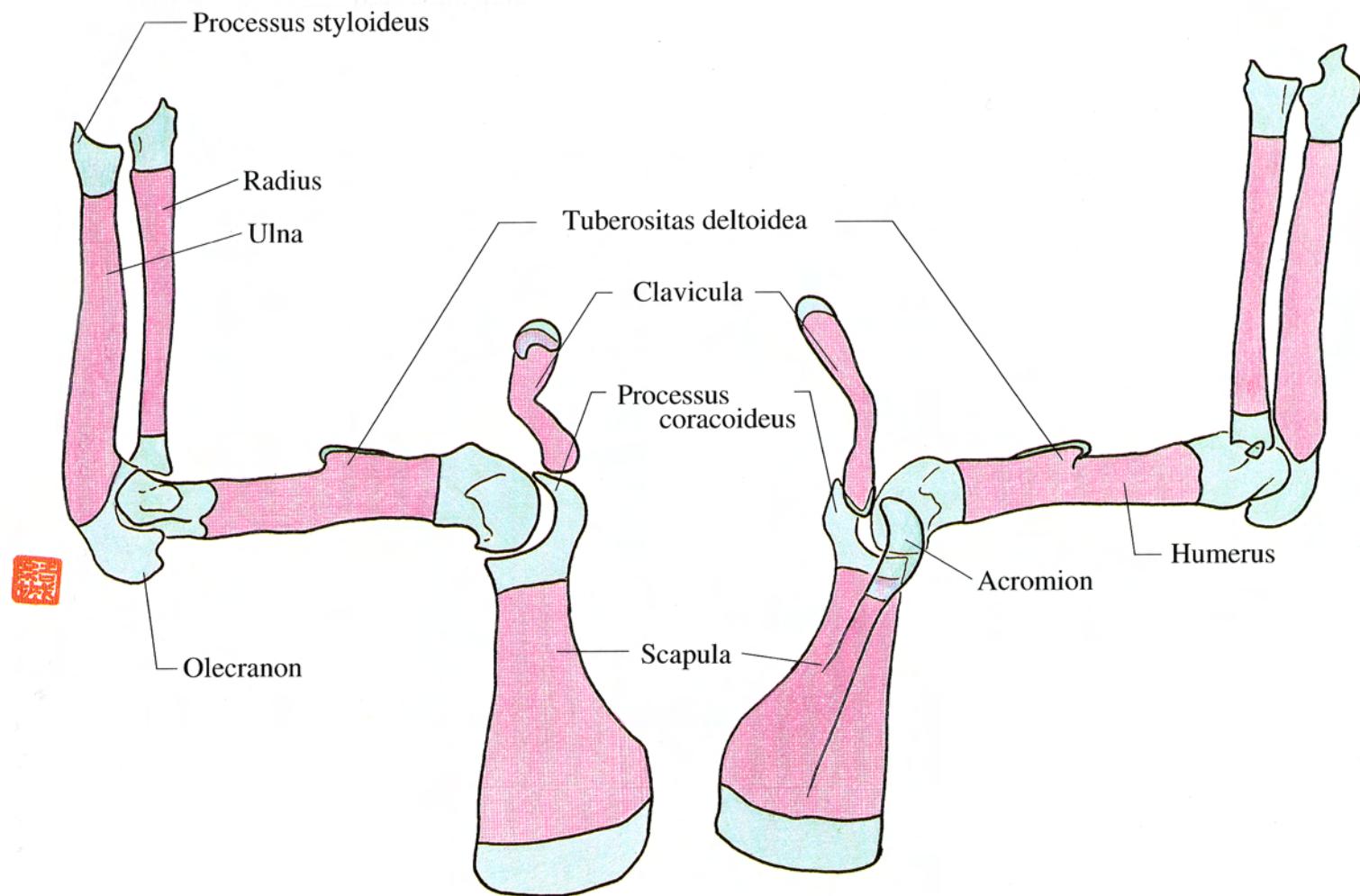
vertebral body  
intervertebral disc  
caudal articular process  
cranial articular process  
transverse process

椎体  
椎間円板  
後関節突起  
前關節突起  
橫突起



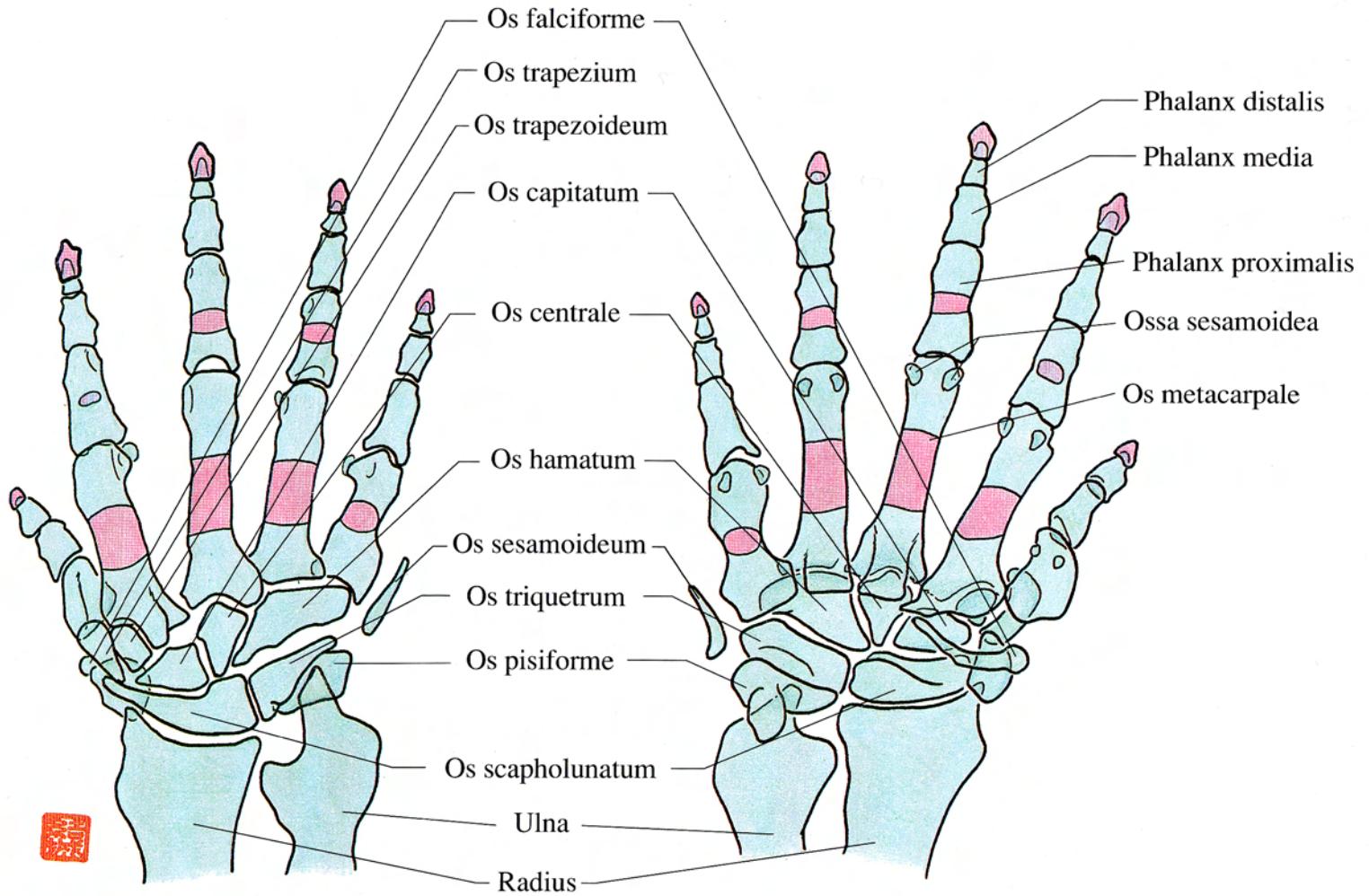
**Fig. 30 Vertebrae caudales: dorsal, lateral, and ventral aspects**

Os capitatum	capitate bone	有頭骨
Os centrale	central bone	中心手根骨
Os falciforme	falciform bone	鎌狀骨
Os hamatum	hamate bone	有鈎骨
Os metacarpale	metacarpal bone	中手骨
Os pisiforme	pisiform bone	豆狀骨
Os scapholunatum	scapholunate bone	舟狀月狀骨
Os sesamoideum	sesamoid bone	種子骨
Os trapezium	trapezium bone	大菱形骨
Os trapezoideum	trapezoid bone	小菱形骨
Os triquetrum	triquetal bone	三角骨
Ossa sesamoidea	sesamoid bones	種子骨
Phalanx distalis	distal phalanx	末節骨
Phalanx media	middle phalanx	中節骨
Phalanx proximalis	proximal phalanx	基節骨
Radius	radius	橈骨
Ulna	ulna	尺骨



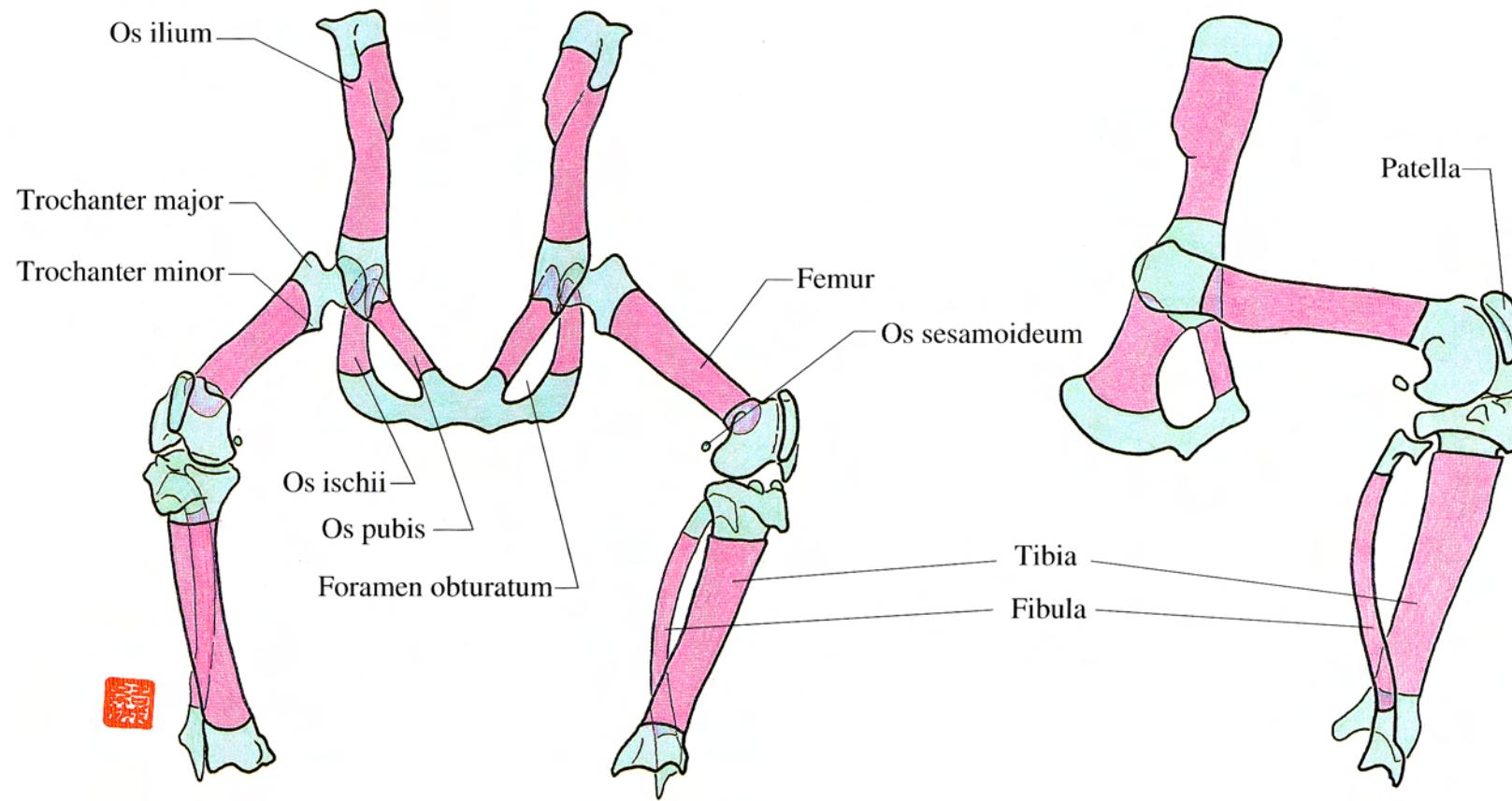
**Fig. 31 Ossa membra thoracici: ventromedial and dorsolateral aspects**

Os capitatum	capitate bone	有頭骨
Os centrale	central bone	中心手根骨
Os falciforme	falciform bone	鎌狀骨
Os hamatum	hamate bone	有鈎骨
Os metacarpale	metacarpal bone	中手骨
Os pisiforme	pisiform bone	豆狀骨
Os scapholunatum	scapholunate bone	舟狀月狀骨
Os sesamoideum	sesamoid bone	種子骨
Os trapezium	trapezium bone	大菱形骨
Os trapezoideum	trapezoid bone	小菱形骨
Os triquetrum	triquetral bone	三角骨
Ossa sesamoidea	sesamoid bones	種子骨
Phalanx distalis	distal phalanx	末節骨
Phalanx media	middle phalanx	中節骨
Phalanx proximalis	proximal phalanx	基節骨
Radius	radius	橈骨
Ulna	ulna	尺骨



**Fig. 32 Skeleton manus: dorsal and palmar aspects**

Femur	femur (thigh bone)	大腿骨
Fibula	fibula (calf bone, splinter bone)	腓骨
Foramen obturatum	obturator foramen	閉鎖孔
Os ilium	ilium	腸骨
Os ischii	ischium	坐骨
Os pubis	pubis	恥骨
Os sesamoideum	sesamoid bone	種子骨
Patella	knee-cap (knee-pan)	膝蓋骨
Tibia	tibia (shin bone)	脛骨
Trochanter major	greater trochanter	大転子
Trochanter minor	lesser trochanter	小転子

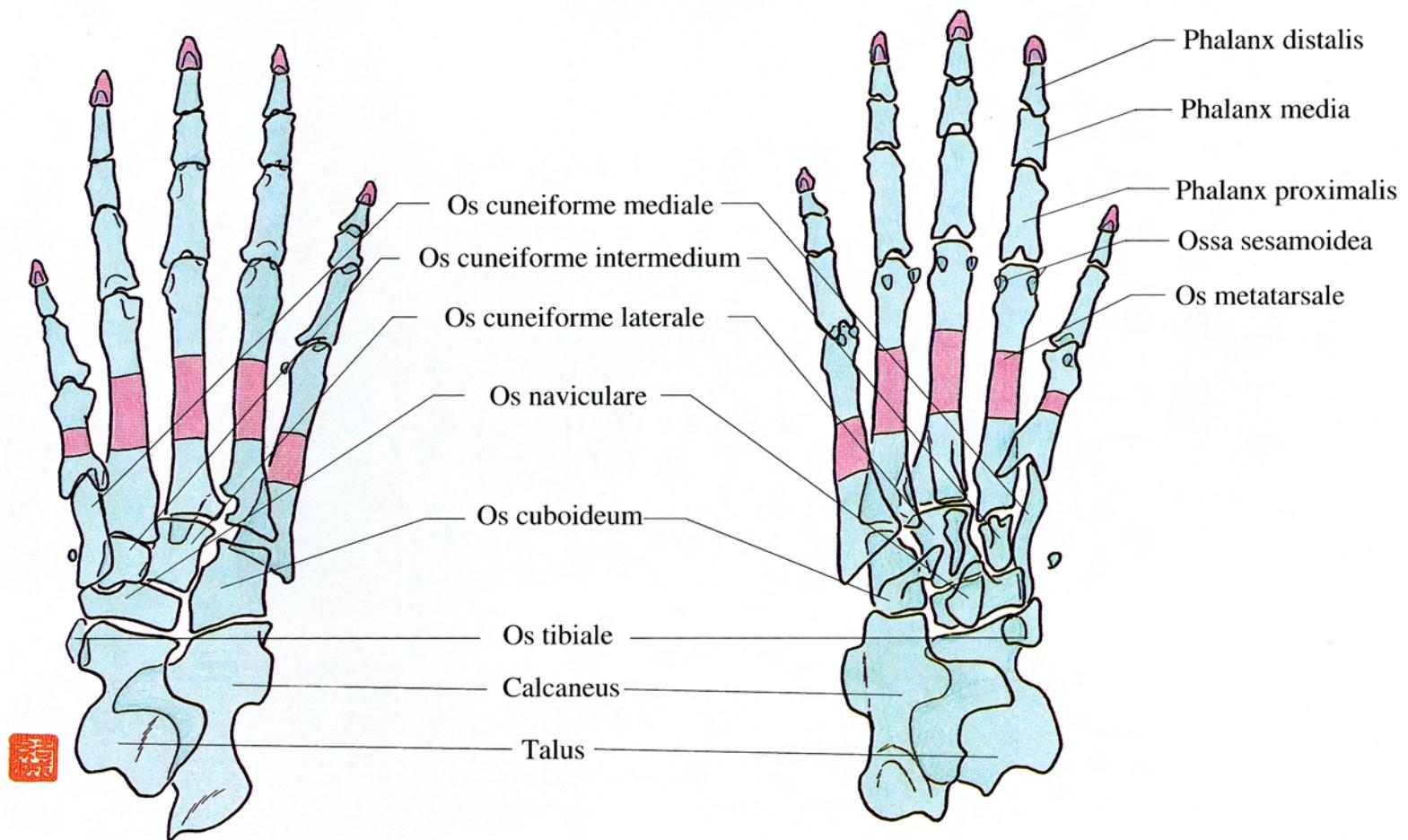


**Fig. 33 Ossa membra pelvini: ventral and lateral aspects**

Calcaneus (Os calcis)  
Os cuboideum  
Os cuneiforme intermedium  
Os cuneiforme laterale  
Os cuneiforme mediale  
Os metatarsale  
Os naviculare  
Os tibiale  
Ossa sesamoidea  
Phalanx distalis  
Phalanx media  
Phalanx proximalis  
Talus

calcaneum (heel bone)  
cuboid bone  
intermediate cuneiform bone  
lateral cuneiform bone  
medial cuneiform bone  
metatarsal bone  
navicular bone  
tibial tarsal bone  
sesamoid bones  
distal phalanx  
middle phalanx  
proximal phalanx  
talus

踵骨  
立方骨  
中間楔狀骨  
外側楔狀骨  
內側楔狀骨  
中足骨  
舟狀骨  
脛側足根骨  
種子骨  
末節骨  
中節骨  
基節骨  
距骨



**Fig. 34 Skeleton pedis: dorsal and plantar aspects**

C. RABBIT

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Anulus tympanicus	tympanic ring	鼓室輪
Cartilagine nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus major	major incisor	大切歯
Foramen ethmoidale	ethmoidal foramen	篩骨孔
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen opticum	optic foramen	視神經孔
Incus	anvil	キヌタ骨
Malleus	hammer	ツチ骨
Mandibula	mandible	下顎骨
Maxilla	maxilla	上顎骨
Os exoccipitale	exoccipital bone	外後頭骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歯骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os supraoccipitale	supraoccipital bone	上後頭骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus angularis	angular process	角突起
Processus condylaris	condylar process	関節突起
Processus coronoideus (Mandibula)	coronoid process (mandible)	筋突起（下顎骨）
Processus mastoideus	mastoid process	乳様突起
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus temporalis	temporal process	側頭突起
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起（上顎骨）
Processus zygomaticus (Os frontale)	zygomatic process (frontal bone)	頬骨突起（前頭骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アズミ骨

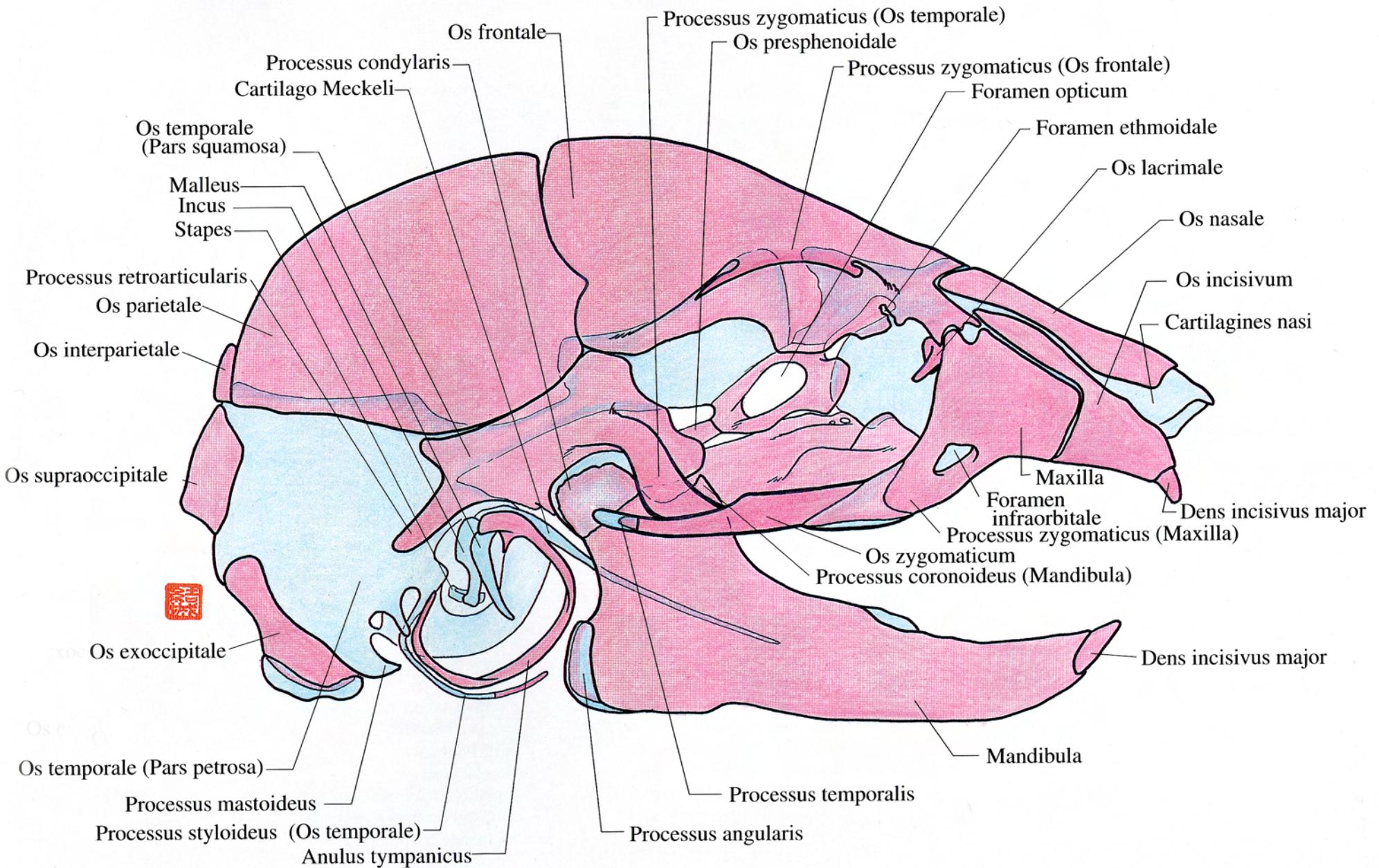
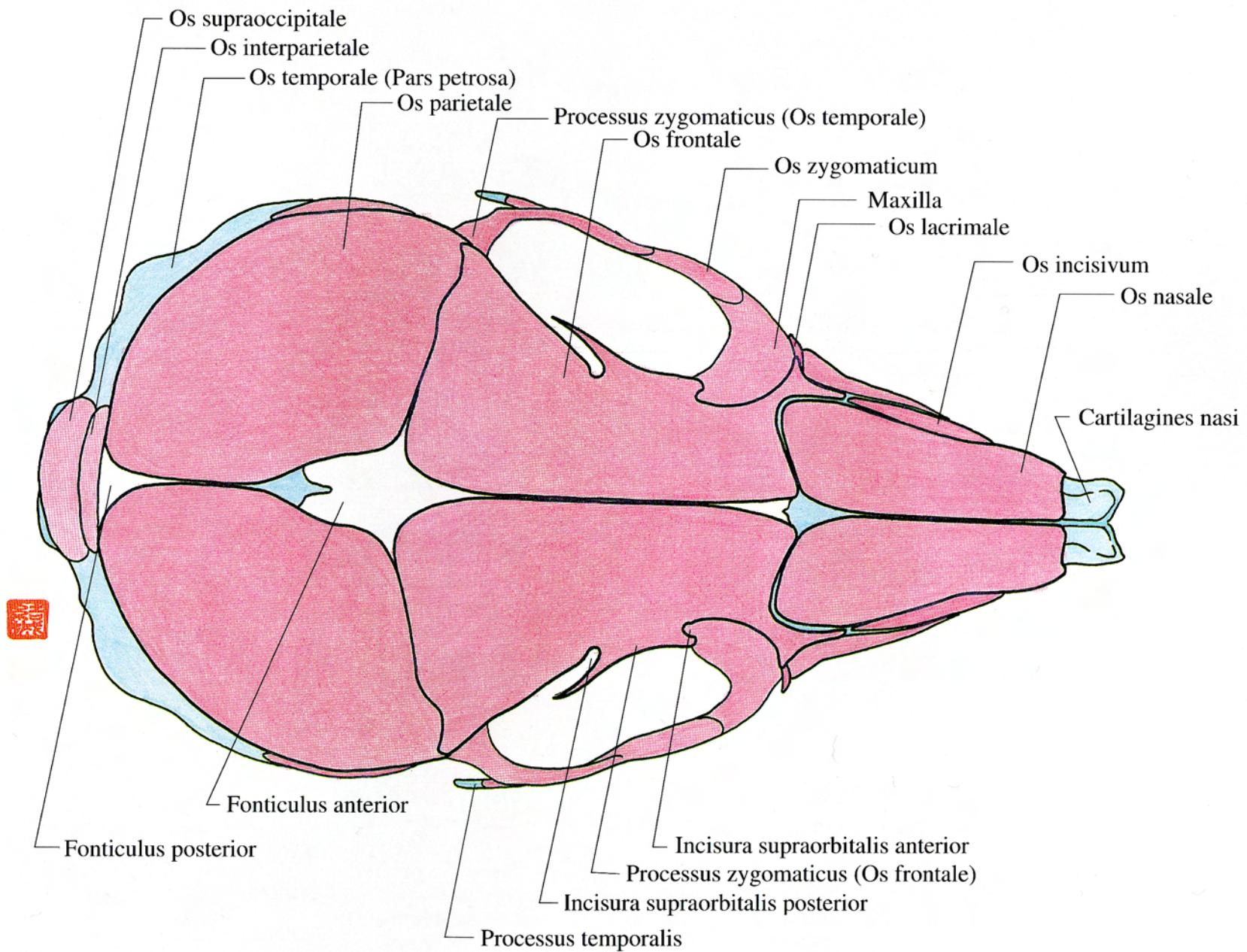


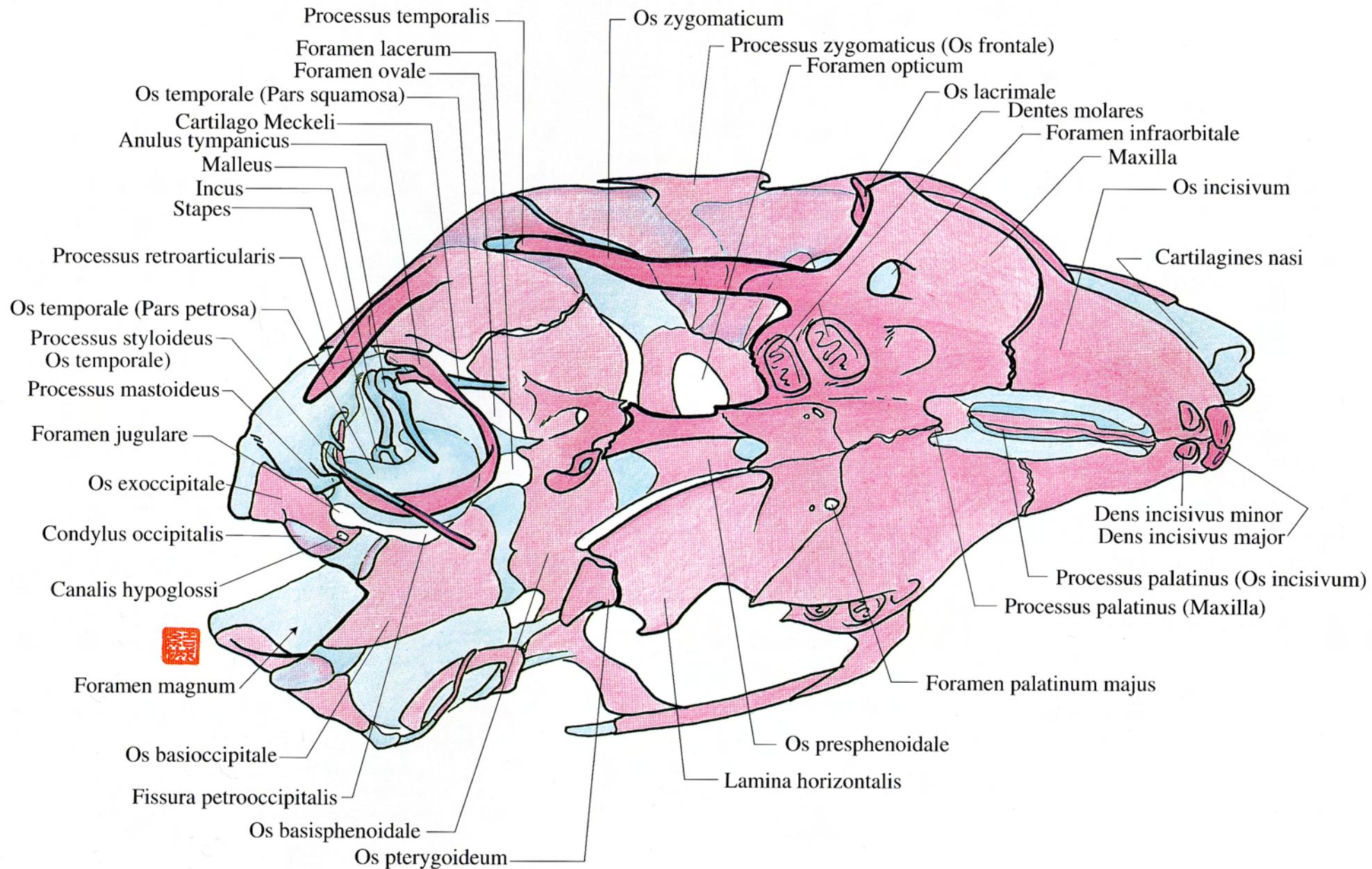
Fig. 35 Cranium: *lateral aspect*

Cartilagines nasi	cartilages of the nose	鼻軟骨
Fonticulus anterior	anterior fontanelle	大泉門
Fonticulus posterior	posterior fontanelle	小泉門
Incisura supraorbitalis anterior	anterior supra-orbital notch	前眼窩上切痕
Incisura supraorbitalis posterior	posterior supra-orbital notch	後眼窩上切痕
Maxilla	maxilla	上顎骨
Os frontale	frontal bone	前頭骨
Os incisivum	incisive bone	切歛骨
Os interparietale	interparietal bone	頭頂間骨
Os lacrimale	lacrimal bone	涙骨
Os nasale	nasal bone	鼻骨
Os parietale	parietal bone	頭頂骨
Os supraoccipitale	supraoccipital bone	上後頭骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os zygomaticum	zygomatic bone	頰骨
Processus temporalis	temporal process	側頭突起
Processus zygomaticus (Os frontale)	zygomatic process (frontal bone)	頰骨突起（前頭骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頰骨突起（側頭骨）



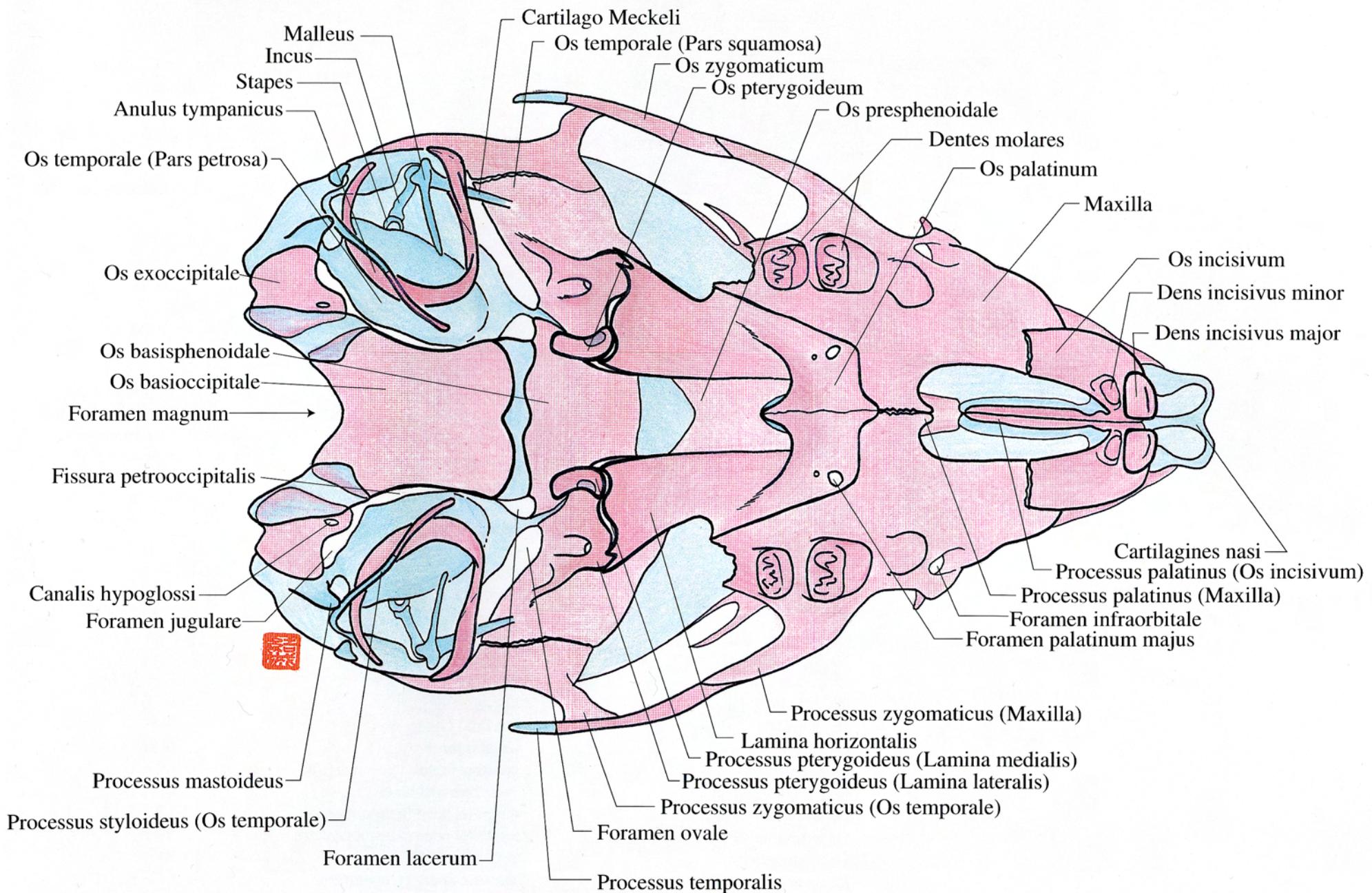
**Fig. 36 Cranium: dorsal aspect**

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagine nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Condylus occipitalis	occipital condyl	後頭頸
Dens incisivus major	major incisor	大切齒
Dens incisivus minor	minor incisor	小切齒
Dentes molares	molars	臼齒
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen magnum	foramen magnum	大後頭孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Foramen palatinum majus	major palatine foramen	大口蓋孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切齒骨
Os lacrimale	lacrimal bone	淚骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os pterygoideum	pterygoid bone	翼狀骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頰骨
Processus mastoideus	mastoid process	乳樣突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切齒骨）
Processus retroarticularis	retroarticular process	関節後突起
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus temporalis	temporal process	側頭突起
Processus zygomaticus (Os frontale)	zygomatic process (frontal bone)	頰骨突起（前頭骨）
Stapes	stirrup	アブミ骨



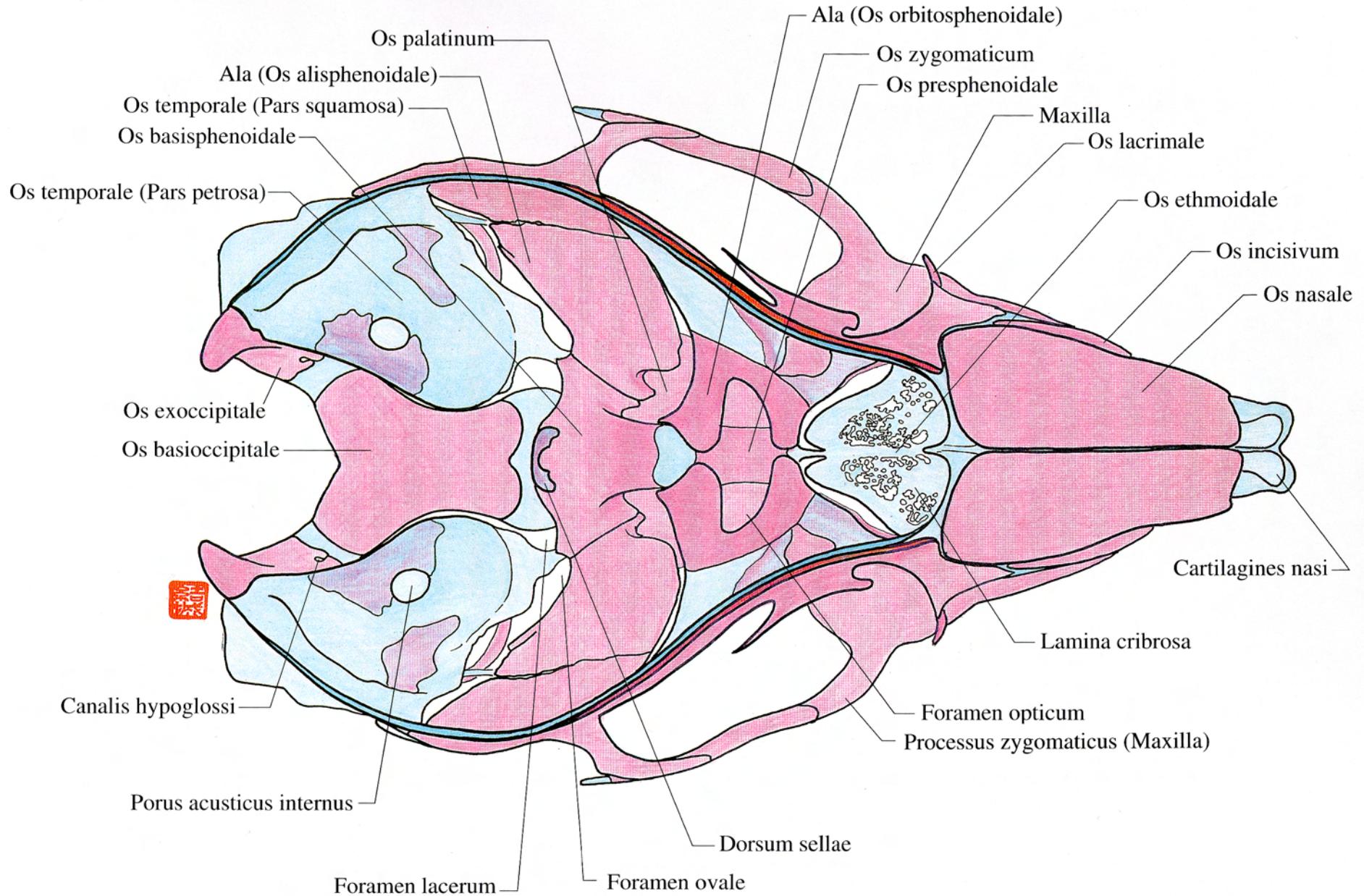
**Fig. 37 Cranium: ventrolateral aspect**

Anulus tympanicus	tympanic ring	鼓室輪
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨
Dens incisivus major	major incisor	大切歯
Dens incisivus minor	minor incisor	小切歯
Dentes molares	molars	臼歯
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂
Foramen infraorbitale	infraorbital foramen	眼窩下孔
Foramen jugulare	jugular foramen	頸靜脈孔
Foramen lacerum	lacerated foramen	破裂孔
Foramen magnum	foramen magnum	大後頭孔
Foramen ovale	oval foramen	卵円孔
Foramen palatinum majus	major palatine foramen	大口蓋孔
Incus	anvil	キヌタ骨
Lamina horizontalis	horizontal part	水平板
Malleus	hammer	ツチ骨
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切歯骨
Os palatinum	palatine bone	口蓋骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os pterygoideum	pterygoid bone	翼状骨
Os temporale (Pars petrose)	temporal bone (petrous part)	側頭骨（岩様部）
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨（鱗部）
Os zygomaticum	zygomatic bone	頬骨
Processus mastoideus	mastoid process	乳様突起
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起（上顎骨）
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起（切歯骨）
Processus pterygoideus (Lamina lateralis)	pterygoid process (lateral pterygoid plate)	翼状突起（外側板）
Processus pterygoideus (Lamina medialis)	pterygoid process (medial pterygoid plate)	翼状突起（内側板）
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起（側頭骨）
Processus temporalis	temporal process	側頭突起
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起（上顎骨）
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起（側頭骨）
Stapes	stirrup	アブミ骨



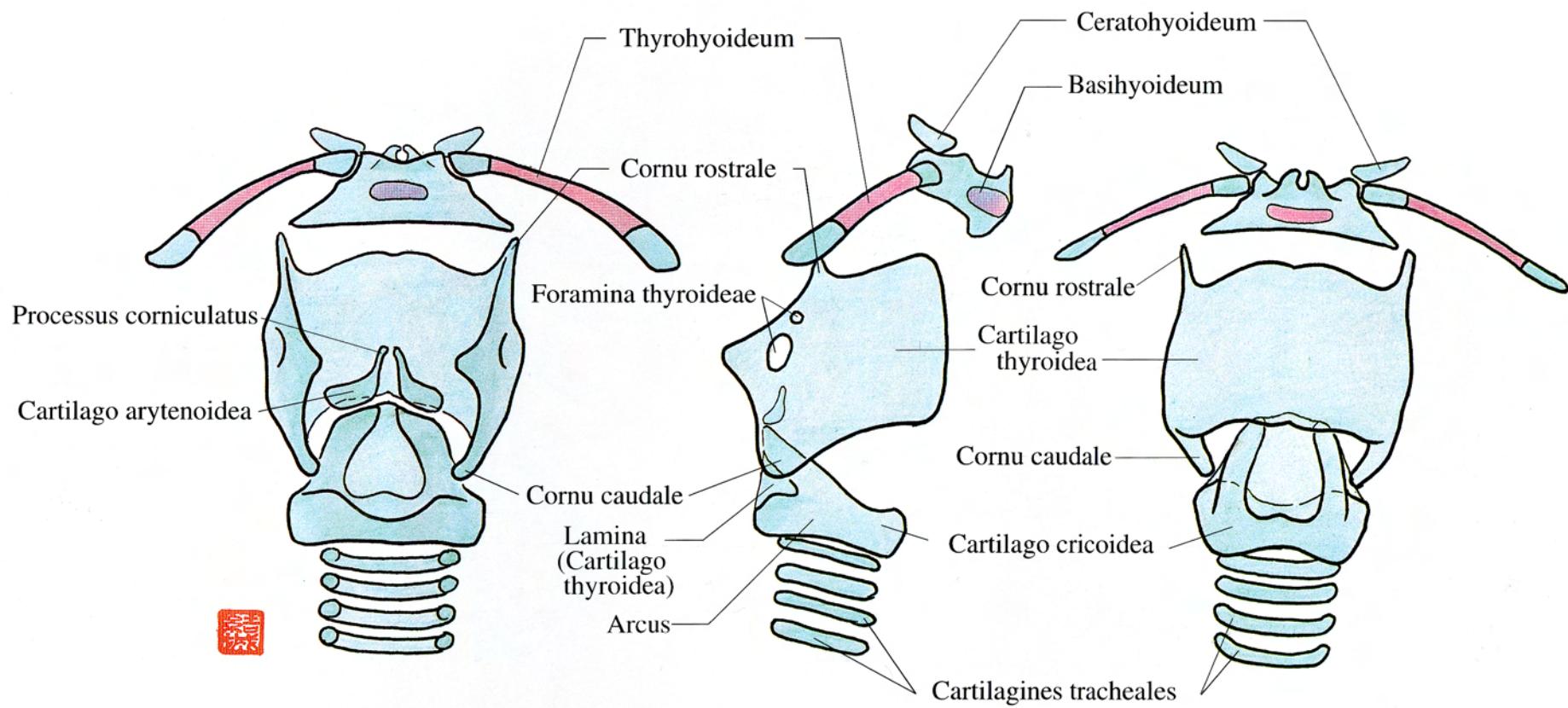
**Fig. 38 Basis cranii externa: ventral aspect**

Ala (Os alisphenoidale)	wing (alisphenoid bone)	翼 (蝶形骨)
Ala (Os orbitosphenoidale)	wing (orbitosphenoid bone)	翼 (眼窩蝶形骨)
Canalis hypoglossi	hypoglossal canal	舌下神經管
Cartilagines nasi	cartilages of the nose	鼻軟骨
Dorsum sellae	dorsum of saddle	鞍背
Foramen lacerum	lacerated foramen	破裂孔
Foramen opticum	optic foramen	視神經孔
Foramen ovale	oval foramen	卵円孔
Lamina cribrosa	cribriform plate	篩板
Maxilla	maxilla	上顎骨
Os basioccipitale	basioccipital bone	底後頭骨
Os basisphenoidale	basisphenoid bone	底蝶形骨
Os ethmoidale	ethmoid bone	篩骨
Os exoccipitale	exoccipital bone	外後頭骨
Os incisivum	incisive bone	切歯骨
Os lacrimale	lacrimal bone	淚骨
Os nasale	nasal bone	鼻骨
Os palatinum	palatine bone	口蓋骨
Os presphenoidale	presphenoidal bone	前蝶形骨
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨 (岩様部)
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨 (鱗部)
Os zygomaticum	zygomatic bone	頬骨
Porus acusticus internus	internal auditory opening	内耳孔
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起 (上顎骨)



**Fig. 39 Basis cranii interna: dorsal aspect**

Arcus	arch	弓
Basihyoideum	basihyoid	底舌骨
Cartilagines tracheales	tracheal cartilages	氣管軟骨
Cartilago arytenoidea	arytenoid cartilage	披裂軟骨
Cartilago cricoidea	cricoid cartilage	輪狀軟骨
Cartilago thyroidea	thyroid cartilage	甲状軟骨
Ceratohyoideum	ceratohyoid	角舌骨
Cornu caudale	caudal horn	後角
Cornu rostrale	rostral horn	前角
Foramina thyroideae	thyroid foramina	甲状孔
Lamina (Cartilago thyroidea)	lamina (thyroid cartilage)	板（甲状軟骨）
Processus corniculatus	corniculate process	小角突起
Thyrohyoideum	thyrohyoid bone	甲状舌骨（大角）

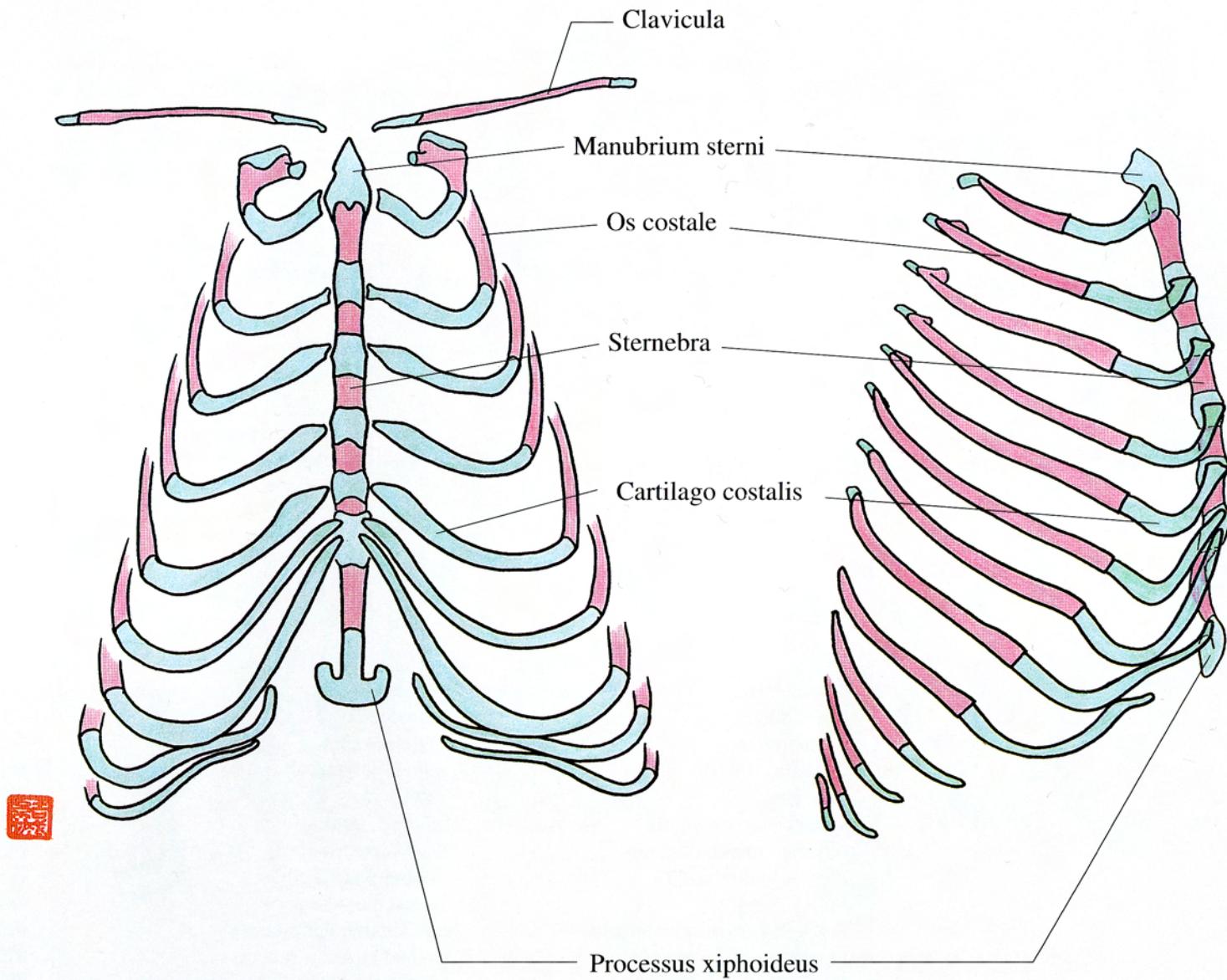


**Fig. 40 Os hyoideum et Cartilagines laryngis: dorsal, lateral, and ventral aspects**

Cartilago costalis  
Clavicula  
Manubrium sterni  
Os costale  
Processus xiphoideus  
Sternebra

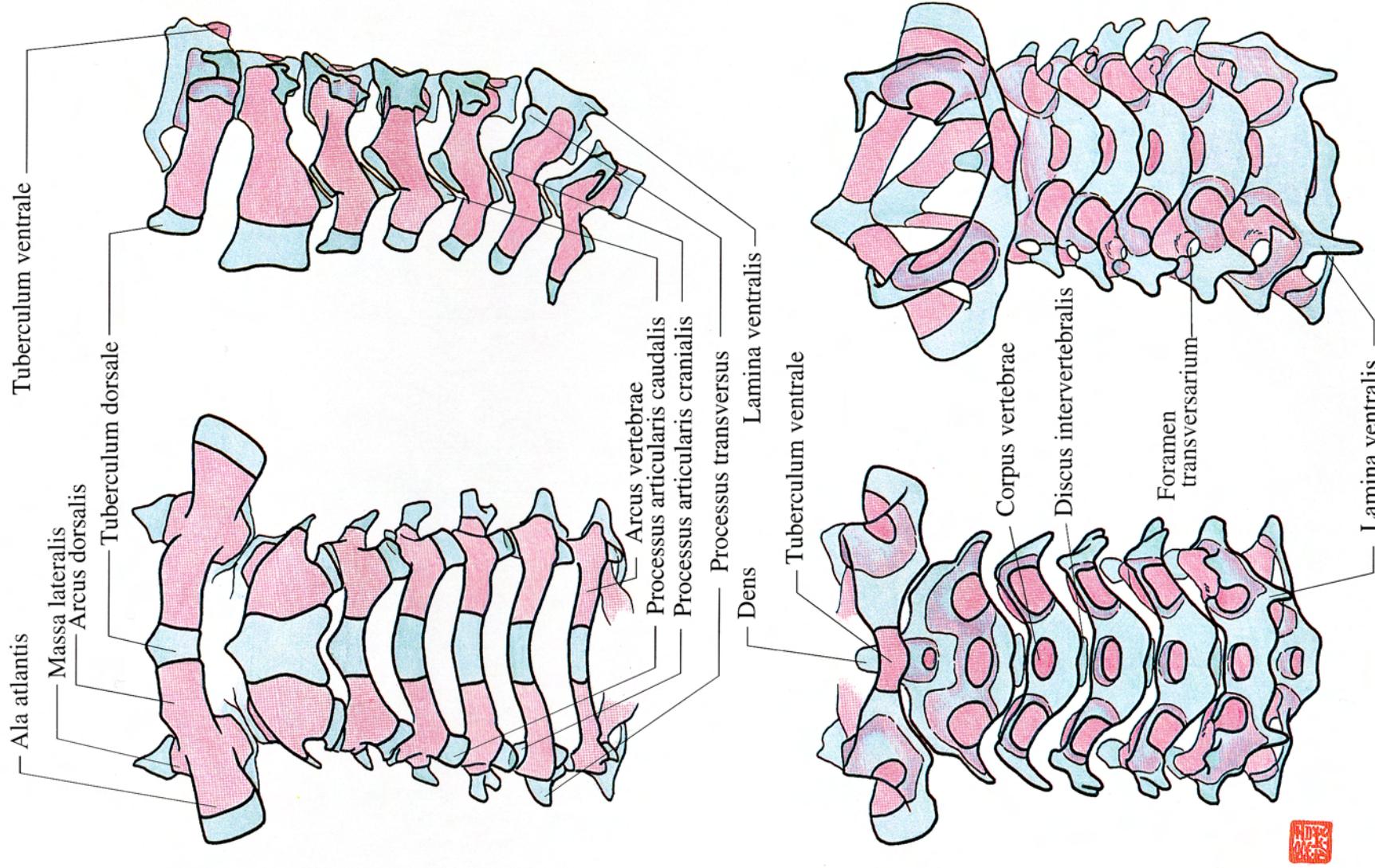
costal cartilage  
clavicle  
manubrium  
costal bone  
xiphoid process  
sternebra

肋軟骨  
鎖骨  
胸骨柄  
肋硬骨  
劍狀突起  
胸骨分節



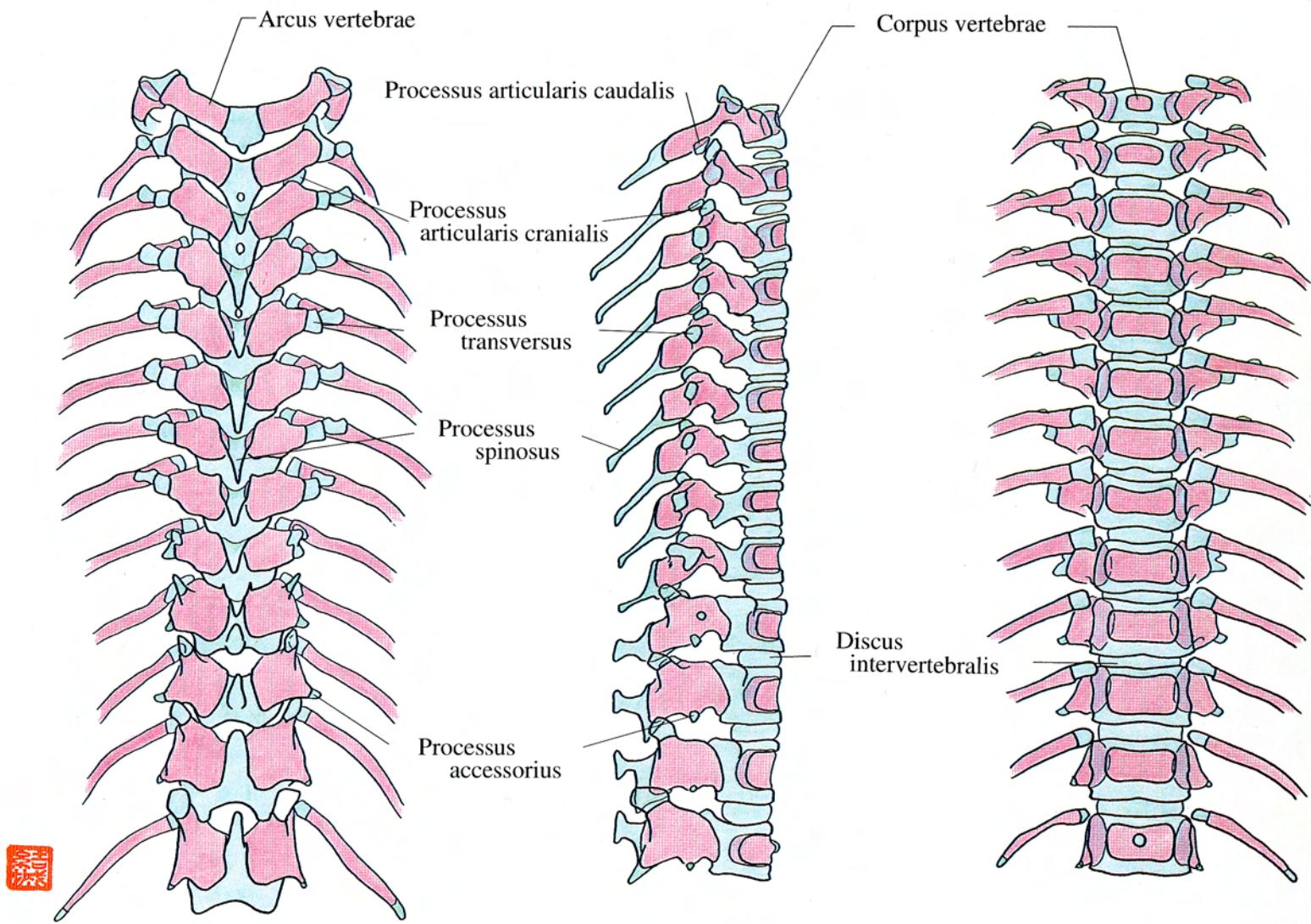
**Fig. 41 Clavícula, Síntesis, et Costae: ventral and lateral aspects**

Ala atlantis	atlas wing	環椎翼
Arcus dorsalis	dorsal arch	背弓
Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Dens	dens	齒突起
Discus intervertebralis	intervertebral disc	椎間円板
Foramen transversarium	transverse foramen	橫突孔
Lamina ventralis (C6)	ventral plate (C6)	腹板（第6頸椎）
Massa lateralis	lateral mass	外側塊
Processus articularis caudalis	caudal articular process	後関節突起
Processus articularis cranialis	cranial articular process	前關節突起
Processus transversus	transverse process	橫突起
Tuberculum dorsale	dorsal tubercle	背結節
Tuberculum ventrale	ventral tubercle	腹結節



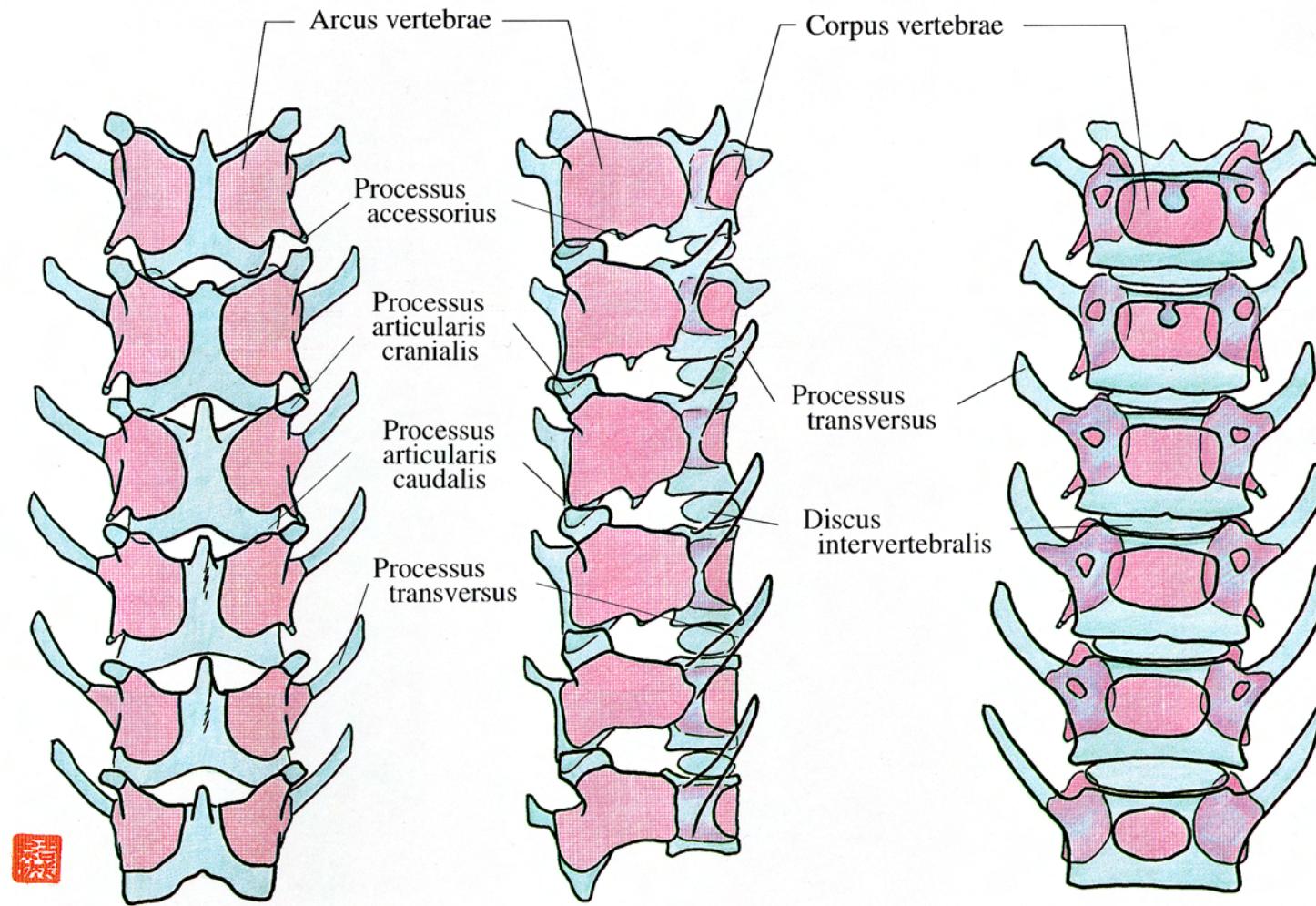
**Fig. 42 Vertebrae cervicales: dorsal, lateral, ventral, and cranioventral aspects**

Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Discus intervertebralis	intervertebral disc	椎間円板
Processus accessorius	accessory process	副突起
Processus articularis caudalis	caudal articular process	後関節突起
Processus articularis cranialis	cranial articular process	前関節突起
Processus spinosus	spinous process	棘突起
Processus transversus	transverse process	横突起



**Fig. 43 Vertebrae thoracicae: dorsal, lateral, and ventral aspects**

Arcus vertebrae	vertebral arch	椎弓
Corpus vertebrae	vertebral body	椎体
Discus intervertebralis	intervertebral disc	椎間円板
Processus accessorius	accessory process	副突起
Processus articularis caudalis	caudal articular process	後関節突起
Processus articularis cranialis	cranial articular process	前関節突起
Processus transversus	transverse process	横突起

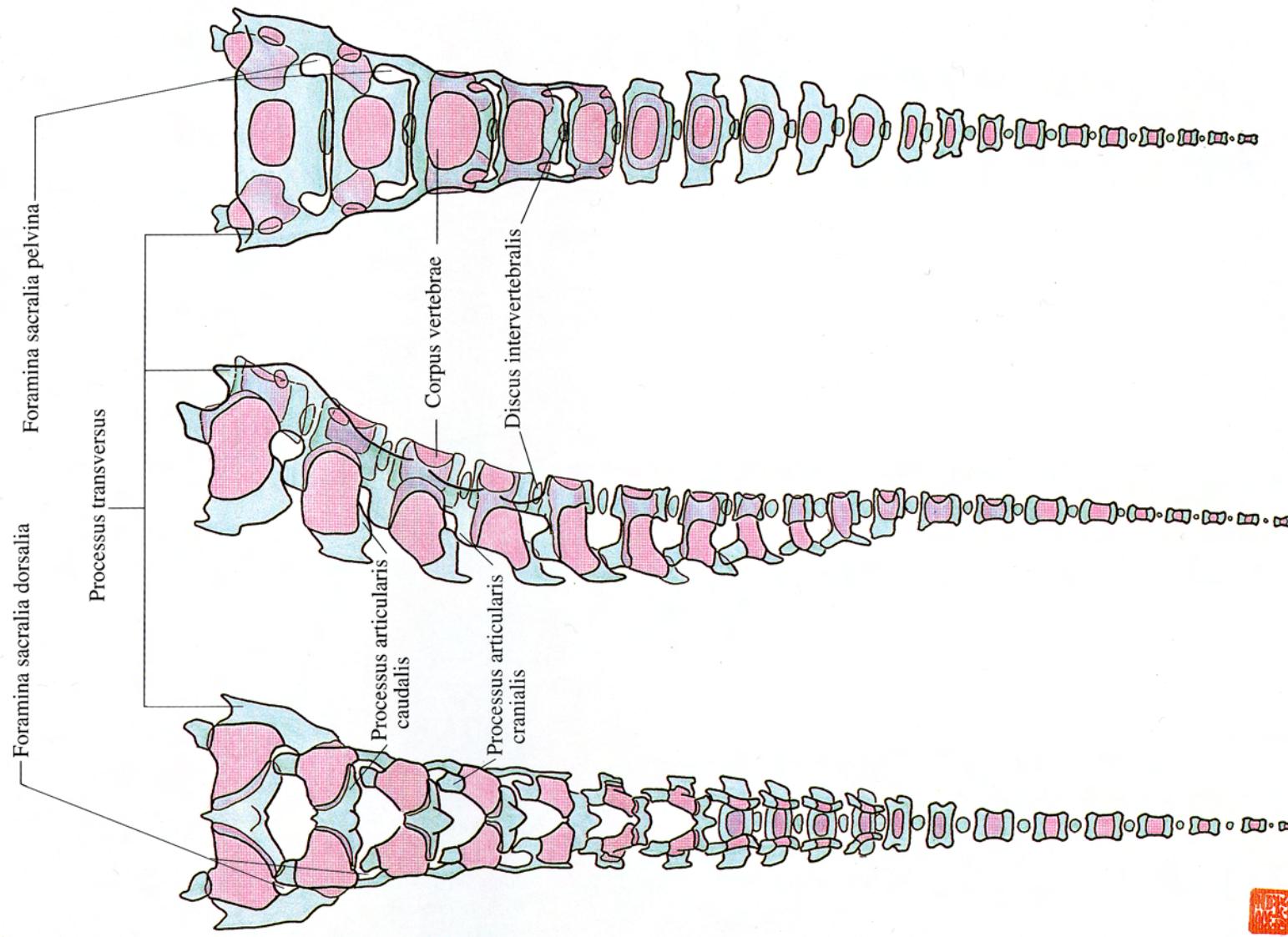


**Fig. 44 Vertbrae lumbales: dorsal, lateral, and ventral aspects**

Corpus vertebrae  
Discus intervertebralis  
Foramina sacralia dorsalia  
Foramina sacralia pelvina  
Processus articularis caudalis  
Processus articularis cranialis  
Processus transversus

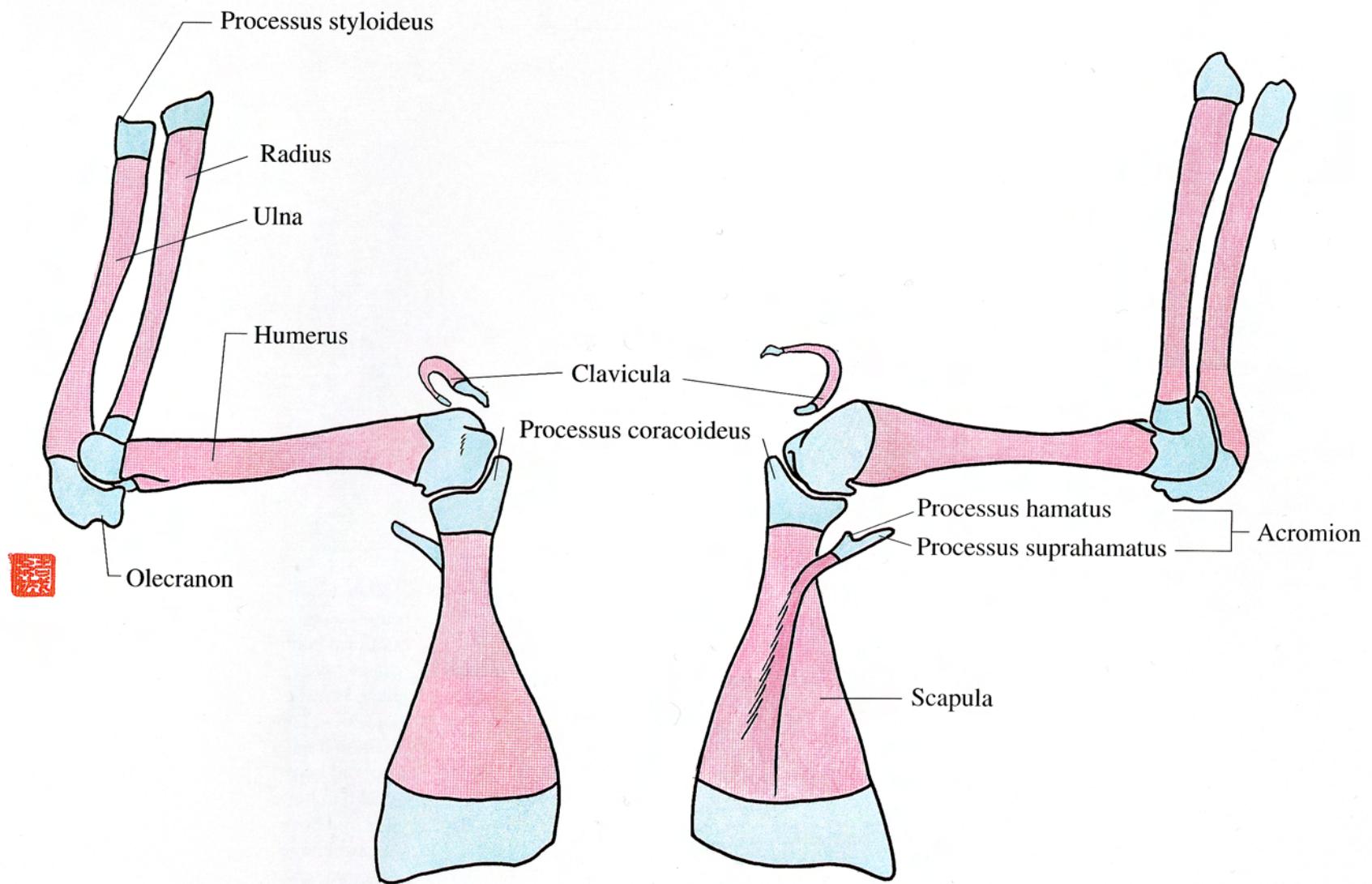
vertebral body  
intervertebral disc  
dorsal sacral foramina  
pelvic sacral foramina  
caudal articular process  
cranial articular process  
transverse process

椎体  
椎間円板  
後仙骨孔  
前仙骨孔  
後関節突起  
前関節突起  
横突起



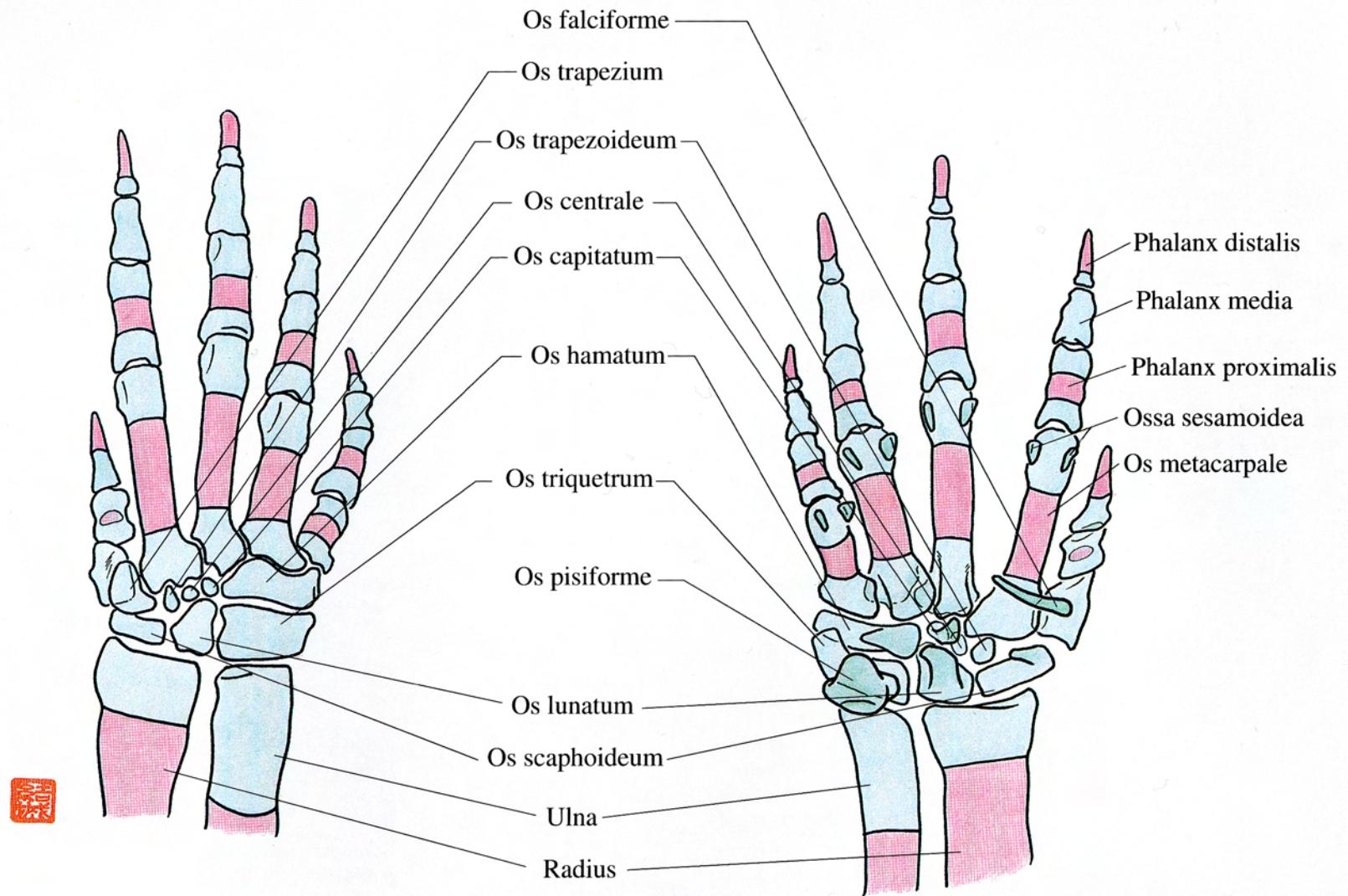
**Fig. 45 Vertebrae sacrales et Vertebrae caudales: dorsal, lateral, and ventral aspects**

Acromion	acromion	肩峰
Clavicula	clavicle	鎖骨
Humerus	humerus	上腕骨
Olecranon	olecranon	肘頭
Processus coracoideus	coracoid process	烏口突起
Processus hamatus	hamate process	鈎突起
Processus styloideus (Ulna)	styloid process (ulna)	莖狀突起（尺骨）
Processus suprhamatus	suprhamate process	鈎上突起
Radius	radius	橈骨
Scapula	scapula	肩甲骨
Ulna	ulna	尺骨



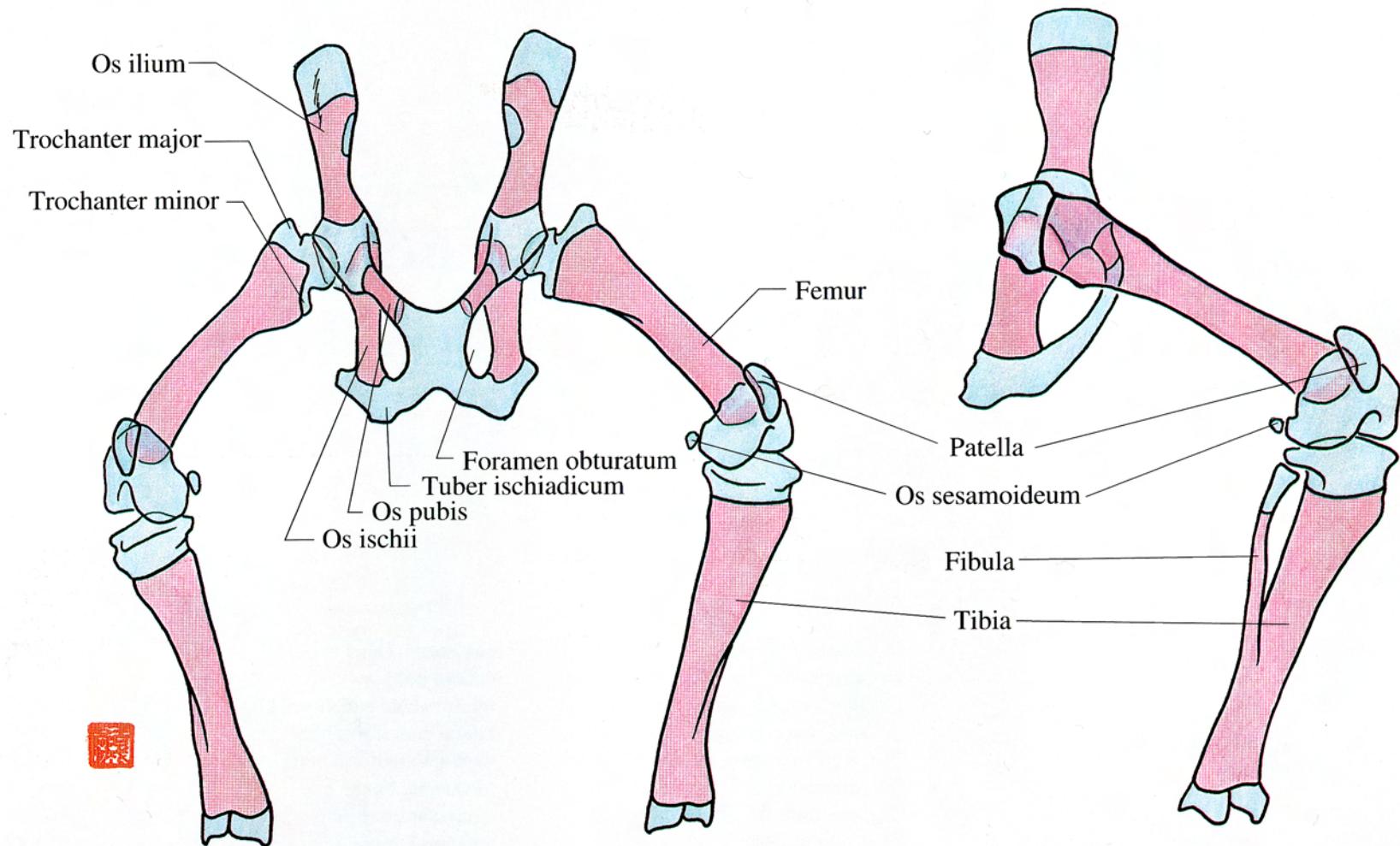
**Fig. 46 Ossa membra thoracici: ventromedial and dorsolateral aspects**

Os capitatum	capitate bone	有頭骨
Os centrale	central bone	中心手根骨
Os falciforme	falciform bone	鎌狀骨
Os hamatum	hamate bone	有鉤骨
Os lunatum	lunate bone	月狀骨
Os metacarpale	metacarpal bone	中手骨
Os pisiforme	pisiform bone	豆狀骨
Os scaphoideum	scaphoid bone	舟狀骨
Os trapezium	trapezium bone	大菱形骨
Os trapezoideum	trapezoid bone	小菱形骨
Os triquetrum	triquetal bone	三角骨
Ossa sesamoidea	sesamoid bones	種子骨
Phalanx distalis	distal phalanx	末節骨
Phalanx media	middle phalanx	中節骨
Phalanx proximalis	proximal phalanx	基節骨
Radius	radius	橈骨
Ulna	ulna	尺骨



**Fig. 47 Skeleton manus: dorsal and palmar aspects**

Femur	femur (thigh bone)	大腿骨
Fibula	fibula (calf bone, splinter bone)	腓骨
Foramen obturatum	obturator foramen	閉鎖孔
Os ilium	ilium	腸骨
Os ischii	ischium	坐骨
Os pubis	pubis	恥骨
Os sesamoideum	sesamoid bone	種子骨
Patella	knee-cap (knee-pan)	膝蓋骨
Tibia	tibia (shin bone)	脛骨
Trochanter major	greater trochanter	大転子
Trochanter minor	lesser trochanter	小転子
Tuber ischiadicum	ischial tuberosity	坐骨結節

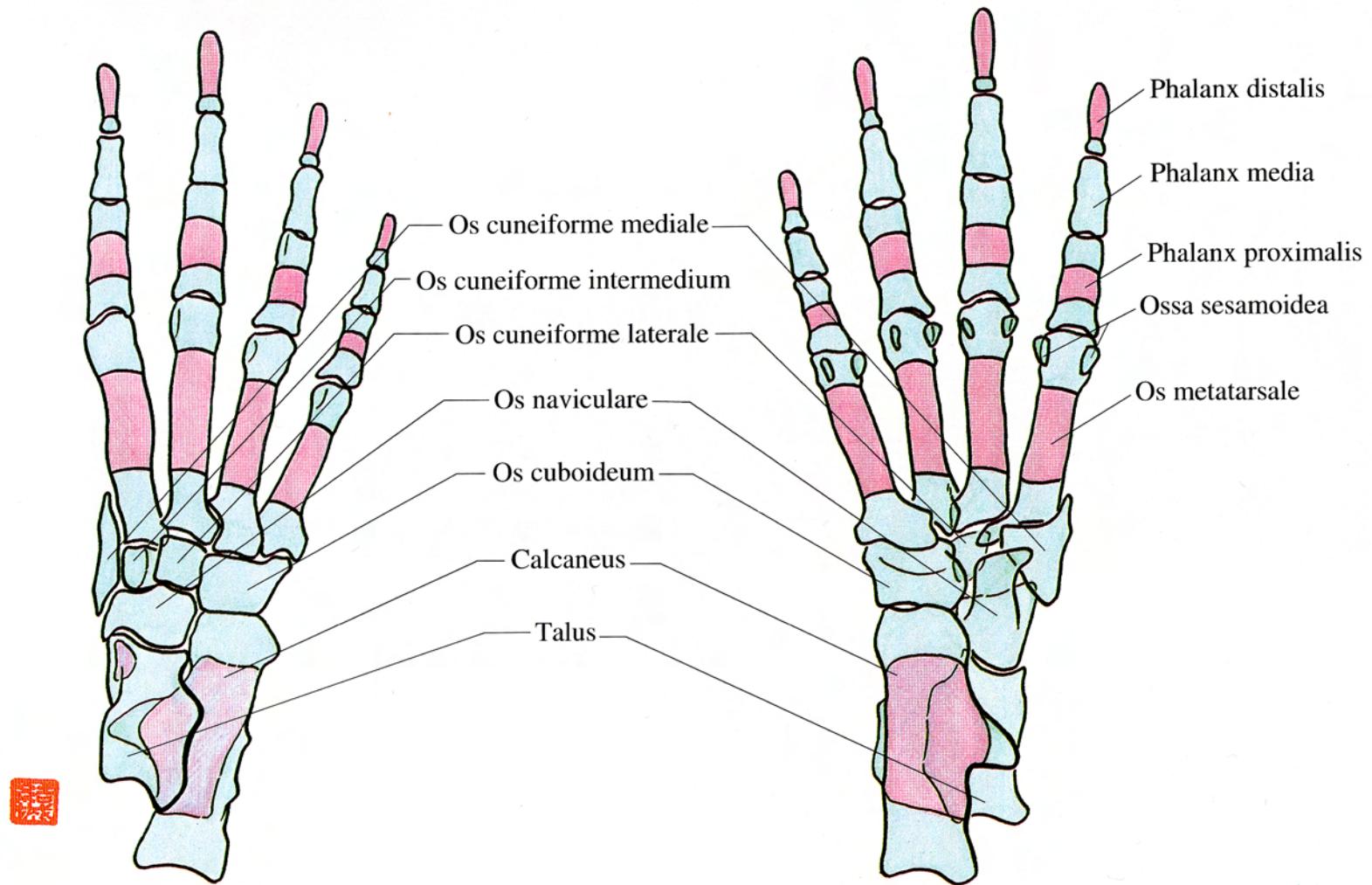


**Fig. 48 Ossa membra pelvini: ventral and lateral aspects**

Calcaneus (Os calcis)  
Os cuboideum  
Os cuneiforme intermedium  
Os cuneiforme laterale  
Os cuneiforme mediale  
Os metatarsale  
Os naviculare  
Ossa sesamoidea  
Phalanx distalis  
Phalanx media  
Phalanx proximalis  
Talus

calcaneum (heel bone)  
cuboid bone  
intermediate cuneiform bone  
lateral cuneiform bone  
medial cuneiform bone  
metatarsal bone  
navicular bone  
sesamoid bones  
distal phalanx  
middle phalanx  
proximal phalanx  
talus

踵骨  
立方骨  
中間楔状骨  
外側楔状骨  
內側楔状骨  
中足骨  
舟状骨  
種子骨  
末節骨  
中節骨  
基節骨  
距骨



**Fig. 49 Skeleton pedis: dorsal and plantar aspects**

# INDEX

# INDEX (Latin)

Latin	English	Japanese	Page		
			Mouse	Rat	Rabbit
Acromion	acromion	肩峰	15	31	46
Ala (Os alisphenoidale)	wing (alisphenoid bone)	翼 (蝶形骨)	5	23	39
Ala (Os orbitosphenoidale)	wing (orbitosphenoid bone)	翼 (眼窩蝶形骨)	5	23	39
Ala atlantis	atlas wing	環椎翼	9 10	26	42
Anulus tympanicus	tympanic ring	鼓室輪	1 3 4 5	19 21 22 23	35 37 38
Arcus	arch	弓	7	24	40
Arcus dorsalis	dorsal arch	背弓	9 10	26	42
Arcus ventralis	ventral arch	腹弓	9 10		
Arcus vertebrae	vertebral arch	椎弓	10 11 12	26 27 28	42 43 44
Atlas	atlas	環椎	9		
Axis	axis	軸椎	9		
Basihyoideum	basihyoid	底舌骨	1 7	19 24	40
Basis cranii externa	external surface of the cranial base	外頭蓋底	4	22	38
Basis cranii interna	internal surface of the cranial base	内頭蓋底	5 6	23	39
Calcaneus (Os calcis)	calcaneum (heel bone)	踵骨	18	34	49
Canalis hypoglossi	hypoglossal canal	舌下神經管	1 3 4 5	19 21 22 23	37 38 39
Canalis pterygoideus	pterygoid canal	翼突管		23	
Cartilagines laryngis	cartilages of the larynx	喉頭軟骨	7	24	40
Cartilagines nasi	cartilages of the nose	鼻軟骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39
Cartilagines tracheales	tracheal cartilages	気管軟骨	7	24	40
Cartilago arytenoidea	arytenoid cartilage	披裂軟骨	7	24	40
Cartilago costalis	costal cartilage	肋軟骨	8	25	41
Cartilago cricoidea	cricoid cartilage	輪状軟骨	7	24	40
Cartilago Meckeli	Meckel's cartilage	メッケル軟骨	1 3 4 5	19 21 22 23	35 37 38
Cartilago thyroidea	thyroid cartilage	甲状軟骨	7	24	40
Ceratohyoideum	ceratohyoid	角舌骨	1 7	19 24	40
Clavicula	clavicle	鎖骨	8 15	25 31	41 46
Condylus occipitalis	occipital condyl	後頭頸			37
Cornu caudale	caudal horn	後角	7	24	40
Cornu rostrale	rostral horn	前角	7	24	40
Corpus vertebrae	vertebral body	椎体	10 11 12 13 14	26 27 28 29 30	42 43 44 45

Latin	English	Japanese	Page		
			Mouse	Rat	Rabbit
Costae	ribs	肋骨	8	25	41
Cranium	skull	頭蓋	1 2 3	19 20 21	35 36 37
Dens	dens	歯突起	9 10	26	42
Dens incisivus	incisor	切歯	1 3 4	19 21 22	
Dens incisivus major	major incisor	大切歯			35 37 38
Dens incisivus minor	minor incisor	小切歯			37 38
Dentes molares	molars	臼歯			37 38
Discus intervertebralis	intervertebral disc	椎間円板	11 12 13 14	27 28 29 30	42 43 44 45
Dorsum sellae	dorsum of saddle	鞍背			39
Epiglottis	epiglottis	喉頭蓋	7	24	
Femur	femur (thigh bone)	大腿骨	17	33	48
Fibula	fibula (calf bone, splinter bone)	腓骨	17	33	48
Fissura petrooccipitalis	petrooccipital fissure	錐体後頭裂	3 4 5	21 22 23	37 38
Fonticulus anterior	anterior fontanelle	大泉門	2	20	36
Fonticulus posterior	posterior fontanelle	小泉門	2	20	36
Foramen alisphenoidale	alisphenoid foramen	翼蝶形孔	1 3	21	
Foramen ethmoidale	ethmoidal foramen	篩骨孔	1 3	19 21	35
Foramen infraorbitale	infraorbital foramen	眼窩下孔	1 3	19 21	35 37 38
Foramen jugulare	jugular foramen	頸靜脈孔	3 4 5	21 22 23	37 38
Foramen lacerum	lacerated foramen	破裂孔	4 5	21 22 23	37 38 39
Foramen magnum	foramen magnum	大後頭孔	1 3 4	19 21 22	37 38
Foramen obturatum	obturator foramen	閉鎖孔	17	33	48
Foramen opticum	optic foramen	視神經孔	1 3 4 5	19 21 23	35 37 39
Foramen orbitorotundum	orbitorotund foramen	眼窩正円孔	5	23	
Foramen ovale	oval foramen	卵円孔	1 3 4 5	21 22 23	37 38 39
Foramen palatinum majus	major palatine foramen	大口蓋孔		21 22	37 38
Foramen transversarium	transverse foramen	横突孔	9 10	26	42
Foramen vertebrae	vertebral foramen	椎孔	9		
Foramina sacralia dorsalia	dorsal sacral foramina	後仙骨孔	13	29	45
Foramina sacralia pelvina	pelvic sacral foramina	前仙骨孔	13	29	45
Foramina thyroideae	thyroid foramina	甲状腺孔	7	24	40

Latin	English	Japanese	Page	Mouse	Rat	Rabbit
Fovea articularis cranialis	cranial articular facet	前関節窩	9			
Humerus	humerus	上腕骨	15	31	46	
Incisura supraorbitalis anterior	anterior supra-orbital notch	前眼窩上切痕			36	
Incisura supraorbitalis posterior	posterior supra-orbital notch	後眼窩上切痕			36	
Incus	anvil	キヌタ骨	1 3 4 5	19 21 22 23	35 37 38	
Lamina (Cartilago thyroidea)	lamina (thyroid cartilage)	板(甲状腺)	7	24	40	
Lamina cribrosa	cribriform plate	篩板	5	23	39	
Lamina horizontalis	horizontal part	水平板	3 4	21 22	37 38	
Lamina ventralis (C6)	ventral plate (C6)	腹板(第6頸椎)	10	26	42	
Malleus	hammer	ツチ骨	1 3 4 5	19 21 22 23	35 37 38	
Mandibula	mandible	下顎骨	1	19	35	
Manubrium sterni	manubrium	胸骨柄	8	25	41	
Massa lateralis	lateral mass	外側塊	10	26	42	
Maxilla	maxilla	上顎骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39	
Olecranon	olecranon	肘頭	15	31	46	
Os basioccipitale	basioccipital bone	底後頭骨	1 3 4 5	19 21 22 23	37 38 39	
Os basisphenoidale	basisphenoid bone	底蝶形骨	1 3 4 5	19 21 22 23	37 38 39	
Os capitatum	capitate bone	有頭骨	16	32	47	
Os centrale	central bone	中心手根骨	16	32	47	
Os costale	costal bone	肋硬骨	8	25	41	
Os cuboideum	cuboid bone	立方骨	18	34	49	
Os cuneiforme intermedium	intermediate cuneiform bone	中間楔状骨	18	34	49	
Os cuneiforme laterale	lateral cuneiform bone	外側楔状骨	18	34	49	
Os cuneiforme mediale	medial cuneiform bone	内側楔状骨	18	34	49	
Os ethmoidale	ethmoid bone	篩骨	5	23	39	
Os exoccipitale	exoccipital bone	外後頭骨	1 3 4 5	19 21 22 23	35 37 38 39	
Os falciforme	falciform bone	鎌状骨	16	32	47	
Os frontale	frontal bone	前頭骨	1 2 3	19 20 21	35 36	
Os hamatum	hamate bone	有鈎骨	16	32	47	
Os hyoideum	hyoid bone	舌骨	7	24	40	
Os ilium	ilium	腸骨	17	33	48	

**Latin**

	English	Japanese	Page				
			Mouse	Rat	Rabbit		
Os incisivum	incisive bone	切歯骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39		
Os interparietale	interparietal bone	頭頂間骨	1 2	19 20	35 36		
Os ischii	ischium	坐骨	17	33	48		
Os lacrimale	lacrimal bone	涙骨	1 2 5	19 20 23	35 36 37 39		
Os lunatum	lunate bone	月状骨			47		
Os metacarpale	metacarpal bone	中手骨	16	32	47		
Os metatarsale	metatarsal bone	中足骨	18	34	49		
Os nasale	nasal bone	鼻骨	1 2 5	19 20 23	35 36 39		
Os naviculare	navicular bone	舟状骨	18	34	49		
Os palatinum	palatine bone	口蓋骨	3 4 5	21 22 23	38 39		
Os parietale	parietal bone	頭頂骨	1 2	19 20	35 36		
Os pisiforme	pisiform bone	豆状骨	16	32	47		
Os presphenoidale	presphenoidal bone	前蝶形骨	5	23	35 37 38 39		
Os pterygoideum	pterygoid bone	翼状骨	3 4	22	37 38		
Os pubis	pubis	恥骨	17	33	48		
Os scaphoideum	scaphoid bone	舟状骨			47		
Os scapholunatum	scapholunate bone	舟状月状骨	16	32			
Os sesamoideum	sesamoid bone	種子骨		32 33	48		
Os supraoccipitale	supraoccipital bone	上後頭骨	1	19 20	35 36		
Os temporale (Pars petrosa)	temporal bone (petrous part)	側頭骨 (岩様部)	1 3 4 5	19 20 21 22 23	35 36 37 38 39		
Os temporale (Pars squamosa)	temporal bone (squamous part)	側頭骨 (鱗部)	1 3 4 5	19 21 22 23	35 37 38 39		
Os tibiale	tibial tarsal bone	脛側足根骨	18	34			
Os trapezium	trapezium bone	大菱形骨	16	32	47		
Os trapezoideum	trapezoid bone	小菱形骨	16	32	47		
Os triquetrum	triquetral bone	三角骨	16	32	47		
Os zygomaticum	zygomatic bone	頬骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39		
Ossa membra pelvini	bones of the pelvic limb	後肢骨	17	33	48		
Ossa membra thoracici	bones of the thoracic limb	前肢骨	15	31	46		
Ossa sesamoidea	sesamoid bones	種子骨	16 17 18	32 34	47 49		
Patella	knee-cap (knee-pan)	膝蓋骨	17	33	48		
Pediculus arcus vertebrae	pedicle of the vertebral arch	椎弓根	11				

Latin	English	Japanese	Page	Mouse	Rat	Rabbit
Phalanx distalis	distal phalanx	末節骨	16 18	32 34	47 49	
Phalanx media	middle phalanx	中節骨	16 18	32 34	47 49	
Phalanx proximalis	proximal phalanx	基節骨	16 18	32 34	47 49	
Porus acusticus internus	internal auditory opening	内耳孔	5	23	39	
Processus accessorius	accessory process	副突起	11 12	27 28	43 44	
Processus angularis	angular process	角突起	1	19	35	
Processus articularis	articular process	関節突起	9 14			
Processus articularis caudalis	caudal articular process	後関節突起	10 11 12 13	26 27 28 29 30	42 43 44 45	
Processus articularis cranialis	cranial articular process	前関節突起	10 11 12 13	26 27 28 29 30	42 43 44 45	
Processus condylaris	condylar process	関節突起	1	19	35	
Processus coracoideus	coracoid process	鳥口突起	15	31	46	
Processus corniculatus	corniculate process	小角突起	7	24	40	
Processus coronoideus (Mandibula)	coronoid process (mandible)	筋突起 (下顎骨)	1	19	35	
Processus coronoideus (Scapula)	coronoid process (scapula)	鈎突起 (肩甲骨)	15			
Processus hamatus	hamate process	鈎突起			46	
Processus mastoideus	mastoid process	乳様突起	1 3 4	19 21 22	35 37 38	
Processus palatinus (Maxilla)	palatine process (maxilla)	口蓋突起 (上顎骨)	3 4	21 22	37 38	
Processus palatinus (Os incisivum)	palatine process (incisive bone)	口蓋突起 (切歯骨)	3 4	21 22	37 38	
Processus pterygoideus (Lamina lateralis)	pterygoid process (lateral pterygoid plate)	翼状突起 (外側板)			38	
Processus pterygoideus (Lamina medialis)	pterygoid process (medial pterygoid plate)	翼状突起 (内側板)			38	
Processus retroarticularis	retroarticular process	関節後突起	1 4	19 21 22	35 37	
Processus spinosus	spinous process	棘突起	11	27	43	
Processus styloideus (Os temporale)	styloid process (temporal bone)	茎状突起 (側頭骨)	1 3 4 5	19 21 22	35 37 38	
Processus styloideus (Ulna)	styloid process (ulna)	茎状突起 (尺骨)	15	31	46	
Processus suprähamateus	suprahamate process	鈎上突起			46	
Processus temporalis	temporal process	側頭突起			35 36 37 38	
Processus transversus	transverse process	横突起	10 11 12 13 14	26 27 28 29 30	42 43 44 45	
Processus xiphoideus	xiphoid process	剣状突起	8	25	41	
Processus zygomaticus (Maxilla)	zygomatic process (maxilla)	頬骨突起 (上顎骨)	1 5	19 22 23	35 38 39	
Processus zygomaticus (Os frontale)	zygomatic process (frontal bone)	頬骨突起 (前頭骨)			35 36 37	
Processus zygomaticus (Os temporale)	zygomatic process (temporal bone)	頬骨突起 (側頭骨)	1 4	19 22	35 36 38	

Latin	English	Japanese	Mouse	Rat	Rabbit
Radius	radius	橈骨	15 16	31 32	46 47
Scapula	scapula	肩甲骨	15	31	46
Septum nasi	nasal septum	鼻中隔	6		
Skeleton manus	bones of the hand	手骨格	16	32	47
Skeleton pedis	bones of the foot	足骨格	18	34	49
Stapes	stirrup	アブミ骨	1 3 4 5	19 21 22 23	35 37 38
Sternebra	sternebra	胸骨分節	8	25	41
Sternum	sternum	胸骨	8	25	41
Talus	talus	距骨	18	34	49
Thyrohyoideum	thyrohyoid bone	甲状舌骨（大角）	1 7	19 24	40
Tibia	tibia (shin bone)	脛骨	17	33	48
Trochanter major	greater trochanter	大転子	17	33	48
Trochanter minor	lesser trochanter	小転子	17	33	48
Tuber ischiadicum	ischial tuberosity	坐骨結節			48
Tuberculum dorsale	dorsal tubercle	背結節	9 10	26	42
Tuberculum ventrale	ventral tubercle	腹結節	9 10	26	42
Tuberositas deltoidea	deltoid tuberosity	三角筋粗面	15	31	
Ulna	ulna	尺骨	15 16	31 32	46 47
Vertebrae caudales	caudal vertebrae	尾椎	14	30	45
Vertebrae cervicales	cervical vertebrae	頸椎	10	26	42
Vertebrae lumbales	lumbar vertebrae	腰椎	12	28	44
Vertebrae sacrales	sacral vertebrae	仙椎	13	29	45
Vertebrae thoracicae	thoracic vertebrae	胸椎	11	27	43
Vomer	vomer	鋸骨	6		

# INDEX (English)

English	Latin	Japanese	Page		
			Mouse	Rat	Rabbit
accessory process	Processus accessorius	副突起	11 12	27 28	43 44
acromion	Acromion	肩峰	15	31	46
alispfenoid foramen	Foramen alisphenoidale	翼蝶形孔	1 3	21	
angular process	Processus angularis	角突起	1	19	35
anterior fontanelle	Fonticulus anterior	大泉門	2	20	36
anterior supra-orbital notch	Incisura supraorbitalis anterior	前眼窩上切痕			36
anvil	Incus	キヌタ骨	1 3 4 5	19 21 22 23	35 37 38
arch	Arcus	弓	7	24	40
articular process	Processus articularis	関節突起	9 14		
arytenoid cartilage	Cartilago arytenoidea	披裂軟骨	7	24	40
atlas	Atlas	環椎	9		
atlas wing	Ala atlantis	環椎翼	9 10	26	42
axis	Axis	軸椎	9		
basihyoid	Basihyoideum	底舌骨	1 7	19 24	40
basioccipital bone	Os basioccipitale	底後頭骨	1 3 4 5	19 21 22 23	37 38 39
basisphenoid bone	Os basisphenoidale	底蝶形骨	1 3 4 5	19 21 22 23	37 38 39
bones of the foot	Skeleton pedis	足骨格	18	34	49
bones of the hand	Skeleton manus	手骨格	16	32	47
bones of the pelvic limb	Ossa membra pelvini	後肢骨	17	33	48
bones of the thoracic limb	Ossa membra thoracici	前肢骨	15	31	46
calcaneum (heel bone)	Calcaneus (Os calcis)	踵骨	18	34	49
capitate bone	Os capitatum	有頭骨	16	32	47
cartilages of the larynx	Cartilagines laryngis	喉頭軟骨	7	24	40
cartilages of the nose	Cartilagines nasi	鼻軟骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39
caudal articular process	Processus articularis caudalis	後關節突起	10 11 12 13	26 27 28 29 30	42 43 44 45
caudal horn	Cornu caudale	後角	7	24	40
caudal vertebrae	Vertebrae caudales	尾椎	14	30	45
central bone	Os centrale	中心手根骨	16	32	47
ceratohyoid	Ceratohyoideum	角舌骨	1 7	19 24	40
cervical vertebrae	Vertebrae cervicales	頸椎	10	26	42
clavicle	Clavica	鎖骨	8 15	25 31	41 46

## English

	Latin	Japanese	Page		
			Mouse	Rat	Rabbit
condylar process	Processus condylaris	関節突起	1	19	35
coracoid process	Processus coracoideus	鳥口突起	15	31	46
corniculate process	Processus corniculatus	小角突起	7	24	40
coronoid process (mandible)	Processus coronoideus (Mandibula)	筋突起(下顎骨)	1	19	35
coronoid process (scapula)	Processus coronoideus (Scapula)	鈎突起(肩甲骨)	15		
costal bone	Os costale	肋硬骨	8	25	41
costal cartilage	Cartilago costalis	肋軟骨	8	25	41
cranial articular facet	Fovea articularis cranialis	前関節窓	9		
cranial articular process	Processus articularis cranialis	前関節突起	10 11 12 13	26 27 28 29 30	42 43 44 45
cibriform plate	Lamina cribrosa	篩板	5	23	39
cricoid cartilage	Cartilago cricoidea	輪状軟骨	7	24	40
cuboid bone	Os cuboideum	立方骨	18	34	49
deltoid tuberosity	Tuberositas deltoidea	三角筋粗面	15	31	
dens	Dens	歯突起	9 10	26	42
distal phalanx	Phalanx distalis	末節骨	16 18	32 34	47 49
dorsal arch	Arcus dorsalis	背弓	9 10	26	42
dorsal sacral foramina	Foramina sacralia dorsalia	後仙骨孔	13	29	45
dorsal tubercle	Tuberculum dorsale	背結節	9 10	26	42
dorsum of saddle	Dorsum sellae	鞍背			39
epiglottis	Epiglottis	喉頭蓋	7	24	
ethmoid bone	Os ethmoidale	篩骨	5	23	39
ethmoidal foramen	Foramen ethmoidale	篩骨孔	1 3	19 21	35
exoccipital bone	Os exoccipitale	外後頭骨	1 3 4 5	19 21 22 23	35 37 38 39
external surface of the cranial base	Basis crani externa	外頭蓋底	4	22	38
falciform bone	Os falciforme	鎌状骨	16	32	47
femur (thigh bone)	Femur	大腿骨	17	33	48
fibula (calf bone, splinter bone)	Fibula	腓骨	17	33	48
foramen magnum	Foramen magnum	大後頭孔	1 3 4	19 21 22	37 38
frontal bone	Os frontale	前頭骨	1 2 3	19 20 21	35 36
greater trochanter	Trochanter major	大転子	17	33	48
hamate bone	Os hamatum	有鈎骨	16	32	47

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hammer	Malleus	ツチ骨	1 3 4 5	19 21 22 23	35 37 38
horizontal part	Lamina horizontalis	水平板	3 4	21 22	37 38
humerus	Humerus	上腕骨	15	31	46
hyoid bone	Os hyoideum	舌骨	7	24	40
hypoglossal canal	Canalis hypoglossi	舌下神經管	1 3 4 5	19 21 22 23	37 38 39
ilium	Os ilium	腸骨	17	33	48
incisive bone	Os incisivum	切齒骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39
incisor	Dens incisivus	切齒	1 3 4	19 21 22	
infraorbital foramen	Foramen infraorbitale	眼窩下孔	1 3	19 21	35 37 38
intermediate cuneiform bone	Os cuneiforme intermedium	中間楔状骨	18	34	49
internal auditory opening	Porus acusticus internus	内耳孔	5	23	39
internal surface of the cranial base	Basis cranii interna	内頭蓋底	5 6	23	39
interparietal bone	Os interparietale	頭頂間骨	1 2	19 20	35 36
intervertebral disc	Discus intervertebralis	椎間円板	11 12 13 14	27 28 29 30	42 43 44 45
ischial tuberosity	Tuber ischiadicum	坐骨結節			48
ischium	Os ischii	坐骨	17	33	48
jugular foramen	Foramen jugulare	頸靜脈孔	3 4 5	21 22 23	37 38
knee-cap (knee-pan)	Patella	膝蓋骨	17	33	48
lacerated foramen	Foramen lacerum	破裂孔	4 5	21 22 23	37 38 39
lacrimal bone	Os lacrimale	涙骨	1 2 5	19 20 23	35 36 37 39
lamina (thyroid cartilage)	Lamina (Cartilago thyroidea)	板 (甲状腺)	7	24	40
lateral cuneiform bone	Os cuneiforme laterale	外側楔状骨	18	34	49
lateral mass	Massa lateralis	外側塊	10	26	42
lesser trochanter	Trochanter minor	小転子	17	33	48
lumbar vertebrae	Vertebrae lumbales	腰椎	12	28	44
lunate bone	Os lunatum	月状骨			47
major incisor	Dens incisivus major	大切齒			35 37 38
major palatine foramen	Foramen palatinum majus	大口蓋孔		21 22	37 38
mandible	Mandibula	下顎骨	1	19	35
manubrium	Manubrium sterni	胸骨柄	8	25	41

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mastoid process	Processus mastoideus	乳様突起	1 3 4	19 21 22	35 37 38
maxilla	Maxilla	上顎骨	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39
Meckel's cartilage	Cartilago Meckeli	メッケル軟骨	1 3 4 5	19 21 22 23	35 37 38
medial cuneiform bone	Os cuneiforme mediale	内側楔状骨	18	34	49
metacarpal bone	Os metacarpale	中手骨	16	32	47
metatarsal bone	Os metatarsale	中足骨	18	34	49
middle phalanx	Phalanx media	中節骨	16 18	32 34	47 49
minor incisor	Dens incisivus minor	小切歯			37 38
molars	Dentes molares	臼歯			37 38
nasal bone	Os nasale	鼻骨	1 2 5	19 20 23	35 36 39
nasal septum	Septum nasi	鼻中隔	6		
navicular bone	Os naviculare	舟状骨	18	34	49
obturator foramen	Foramen obturatum	閉鎖孔	17	33	48
occipital condyl	Condylus occipitalis	後頭頸			37
olecranon	Olecranon	肘頭	15	31	46
optic foramen	Foramen opticum	視神経孔	1 3 4 5	19 21 23	35 37 39
orbitotund foramen	Foramen orbitotundum	眼窩正円孔	5	23	
oval foramen	Foramen ovale	卵円孔	1 3 4 5	21 22 23	37 38 39
palatine bone	Os palatinum	口蓋骨	3 4 5	21 22 23	38 39
palatine process (incisive bone)	Processus palatinus (Os incisivum)	口蓋突起(切歎骨)	3 4	21 22	37 38
palatine process (maxilla)	Processus palatinus (Maxilla)	口蓋突起(上顎骨)	3 4	21 22	37 38
parietal bone	Os parietale	頭頂骨	1 2	19 20	35 36
pedicle of the vertebral arch	Pediculus arcus vertebrae	椎弓根	11		
pelvic sacral foramina	Foramina sacralia pelvina	前仙骨孔	13	29	45
petrooccipital fissure	Fissura petrooccipitalis	錐体後頭裂	3 4 5	21 22 23	37 38
pisiform bone	Os pisiforme	豆状骨	16	32	47
posterior fontanelle	Fonticulus posterior	小泉門	2	20	36
posterior supra-orbital notch	Incisura supraorbitalis posterior	後眼窩上切痕			36
presphenoidal bone	Os presphenoidale	前蝶形骨	5	23	35 37 38 39
proximal phalanx	Phalanx proximalis	基節骨	16 18	32 34	47 49
pterygoid bone	Os pterygoideum	翼状骨	3 4	22	37 38

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pterygoid process (lateral pterygoid plate)	Processus pterygoideus (Lamina lateralis)	翼状突起（外側板）		38	
pterygoid process (medial pterygoid plate)	Processus pterygoideus (Lamina medialis)	翼状突起（内側板）		38	
pubis	Os pubis	恥骨	17	33	48
radius	Radius	橈骨	15 16	31 32	46 47
retroarticular process	Processus retroarticularis	関節後突起	1 4	19 21 22	35 37
ribs	Costae	肋骨	8	25	41
rostral horn	Cornu rostrale	前角	7	24	40
sacral vertebrae	Vertebrae sacrales	仙椎	13	29	45
scaphoid bone	Os scaphoideum	舟状骨			47
scapholunate bone	Os scapholunatum	舟状月状骨	16	32	
scapula	Scapula	肩甲骨	15	31	46
sesamoid bone	Os sesamoideum	種子骨		32 33	48
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styloid process (temporal bone)	Processus styloideus (Os temporale)	茎状突起（側頭骨）	1 3 4 5	19 21 22	35 37 38
styloid process (ulna)	Processus styloideus (Ulna)	茎状突起（尺骨）	15	31	46
suprähamate process	Procesuss suprähamus	鈎上突起			46
supraoccipital bone	Os supraoccipitale	上後頭骨	1	19 20	35 36
talus	Talus	距骨	18	34	49
temporal bone (petrous part)	Os temporale (Pars petrosa)	側頭骨（岩様部）	1 3 4 5	19 20 21 22 23	35 36 37 38 39
temporal bone (squamous part)	Os temporale (Pars squamosa)	側頭骨（鱗部）	1 3 4 5	19 21 22 23	35 37 38 39
temporal process	Processus temporalis	側頭突起			35 36 37 38
thoracic vertebrae	Vertebrae thoracicae	胸椎	11	27	43
thyrohyoid bone	Thyrohyoideum	甲状舌骨（大角）	1 7	19 24	40
thyroid cartilage	Cartilago thyroidea	甲状軟骨	7	24	40
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transverse process	Processus transversus	横突起	10 11 12 13 14	26 27 28 29 30	42 43 44 45
trapezium bone	Os trapezium	大菱形骨	16	32	47
trapezoid bone	Os trapezoideum	小菱形骨	16	32	47
triquetal bone	Os triquetrum	三角骨	16	32	47
tympanic ring	Anulus tympanicus	鼓室輪	1 3 4 5	19 21 22 23	35 37 38
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ventral arch	Arcus ventralis	腹弓	9 10		
ventral plate (C6)	Lamina ventralis (C6)	腹板（第6頸椎）	10	26	42
ventral tubercle	Tuberculum ventrale	腹結節	9 10	26	42
vertebral arch	Arcus vertebrae	椎弓	10 11 12	26 27 28	42 43 44
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wing (orbitosphenoid bone)	Ala (Os orbitosphenoidale)	翼（眼窩蝶形骨）	5	23	39
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zygomatic process (frontal bone)	Processus zygomaticus (Os frontale)	頬骨突起（前頭骨）			35 36 37
zygomatic process (maxilla)	Processus zygomaticus (Maxilla)	頬骨突起（上顎骨）	1 5	19 22 23	35 38 39
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恥骨	pubis	Os pubis	17	33	48
中間楔状骨	intermediate cuneiform bone	Os cuneiforme intermedium	18	34	49
中手骨	metacarpal bone	Os metacarpale	16	32	47
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肘頭	olecranon	Olecranon	15	31	46
腸骨	ilium	Os ilium	17	33	48
椎間円板	intervertebral disc	Discus intervertebralis	11 12 13 14	27 28 29 30	42 43 44 45
椎弓	vertebral arch	Arcus vertebrae	10 11 12	26 27 28	42 43 44
椎弓根	pedicle of the vertebral arch	Pediculus arcus vertebrae	11		
椎孔	vertebral foramen	Foramen vertebrae	9		
椎体	vertebral body	Corpus vertebrae	10 11 12 13 14	26 27 28 29 30	42 43 44 45
ツチ骨	hammer	Malleus	1 3 4 5	19 21 22 23	35 37 38
底後頭骨	basioccipital bone	Os basioccipitale	1 3 4 5	19 21 22 23	37 38 39
底舌骨	basihyoid	Basihyoideum	1 7	19 24	40
底蝶形骨	basisphenoid bone	Os basisphenoidale	1 3 4 5	19 21 22 23	37 38 39
頭蓋	skull	Cranium	1 2 3	19 20 21	35 36 37
橈骨	radius	Radius	15 16	31 32	46 47
豆状骨	pisiform bone	Os pisiforme	16	32	47
頭頂間骨	interparietal bone	Os interparietale	1 2	19 20	35 36
頭頂骨	parietal bone	Os parietale	1 2	19 20	35 36
内耳孔	internal auditory opening	Porus acusticus internus	5	23	39
内側楔状骨	medial cuneiform bone	Os cuneiforme mediale	18	34	49
内頭蓋底	internal surface of the cranial cavity	Basis cranii interna	5 6	23	39
乳様突起	mastoid process	Processus mastoideus	1 3 4	19 21 22	35 37 38
背弓	dorsal arch	Arcus dorsalis	9 10	26	42
背結節	dorsal tubercle	Tuberculum dorsale	9 10	26	42
破裂孔	lacerated foramen	Foramen lacerum	4 5	21 22 23	37 38 39
板（甲状軟骨）	lamina (thyroid cartilage)	Lamina (Cartilago thyroidea)	7	24	40
腓骨	fibula (calf bone, splinter bone)	Fibula	17	33	48
鼻骨	nasal bone	Os nasale	1 2 5	19 20 23	35 36 39
鼻中隔	nasal septum	Septum nasi	6		
尾椎	caudal vertebrae	Vertebrae caudales	14	30	45
鼻軟骨	cartilages of the nose	Cartilagines nasi	1 2 3 4 5	19 20 21 22 23	35 36 37 38 39
披裂軟骨	arytenoid cartilage	Cartilago arytenoidea	7	24	40

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Japanese	English	Latin	Mouse	Rat	Rabbit
腹弓	ventral arch	Arcus ventralis	9 10		
腹結節	ventral tubercle	Tuberculum ventrale	9 10	26	42
副突起	accessory process	Processus accessorius	11 12	27 28	43 44
腹板（第6頸椎）	ventral plate (C6)	Lamina ventralis (C6)	10	26	42
閉鎖孔	obturator foramen	Foramen obturatum	17	33	48
末節骨	distal phalanx	Phalanx distalis	16 18	32 34	47 49
メッケル軟骨	Meckel's cartilage	Cartilago Meckeli	1 3 4 5	19 21 22 23	35 37 38
有鈎骨	hamate bone	Os hamatum	16	32	47
有頭骨	capitate bone	Os capitatum	16	32	47
腰椎	lumbar vertebrae	Vertebrae lumbales	12	28	44
翼（眼窩蝶形骨）	wing (orbitosphenoid bone)	Ala (Os orbitosphenoidale)	5	23	39
翼（蝶形骨）	wing (alispheonid bone)	Ala (Os alispheonidale)	5	23	39
翼状骨	pterygoid bone	Os pterygoideum	3 4	22	37 38
翼状突起（外側板）	pterygoid process (lateral pterygoid plate)	Processus pterygoideus (Lamina lateralis)			38
翼状突起（内側板）	pterygoid process (medial pterygoid plate)	Processus pterygoideus (Lamina medialis)			38
翼蝶形孔	alispheonid foramen	Foramen alispheonidale	1 3	21	
翼空管	pterygoid canal	Canalis pterygoideus		23	
卵円孔	oval foramen	Foramen ovale	1 3 4 5	21 22 23	37 38 39
立方骨	cuboid bone	Os cuboideum	18	34	49
輪状軟骨	cricoid cartilage	Cartilago cricoidea	7	24	40
涙骨	lacrimal bone	Os lacrimale	1 2 5	19 20 23	35 36 37 39
肋硬骨	costal bone	Os costale	8	25	41
肋軟骨	costal cartilage	Cartilago costalis	8	25	41
肋骨	ribs	Costae	8	25	41