

# Cahiers d'Anatomie Comparée



C@C, 2 : 1-31.

## MINI-ATLAS ANATOMIQUE DES VISCERES DES CAVITES THORACIQUE ET ABDOMINALE DU FURET (*Mustela putorius furo*, L. 1758 )

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**English title:**

Thoracic and abdominal viscera short anatomy-atlas of the European ferret  
(*Mustela putorius furo*, L. 1758)

**Mots-clés :**

anatomie, viscères, thoracique, abdomino-pelvien, furet

**Keywords :**

*anatomy, viscera, thoracic, abdomino-pelvic, ferret*

## Systématique – Systematics (latin)

Vertébrés – *Vertebrates (Vertebrata)*  
Gnathostomes – *Gnathostomes (Gnathostomata)*  
Tétrapodes – *Tetrapods (Tetrapoda)*  
Mammifères – *Mammals (Mammalia)*  
Euthériens – *Therians (Theria)*  
Carnivores – *Carnivores (Carnivora)*  
Mustélidés – *Mustelids (Mustelidae)*  
Mustélinés – *Mustelinae (Mustelinae)*  
*Mustela putorius furo* (L. 1758)

Après avoir disséqué une quinzaine de furets adultes mâles de réforme (Marshall BioResources, Lyon) et s'être assuré d'un plan d'organisation global des viscères des cavités thoracique et abdominale identique, nous avons pratiqué une dissection plus soignée sur un animal de référence représenté dans cet article. Il s'agit d'un mâle adulte de 26 mois, de 63 centimètres de longueur et qui pesait 1600 grammes.

*After having dissected about fifteen cull adult male ferrets (Marshall BioResources, Lyon), and being assured of an unchanged global organization plan of the thoracic and abdominal cavities' viscera, we have performed a more meticulous dissection on a reference animal represented in this article. It is a 26 months old adult male, which was 63cm long and weighed 1600g.*

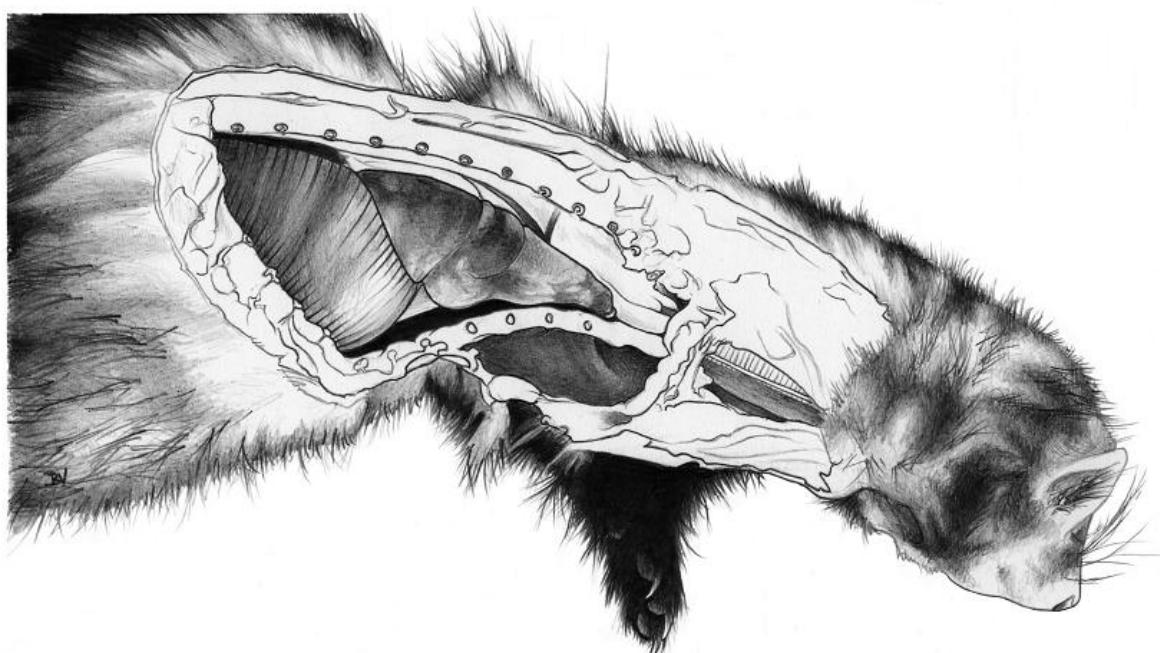
CAVITES THORACIQUE ET ABDOMINALE

Fig. 1. Cavité thoracique. Vue latérale droite [*Thoracic cavity. Right lateral view*].

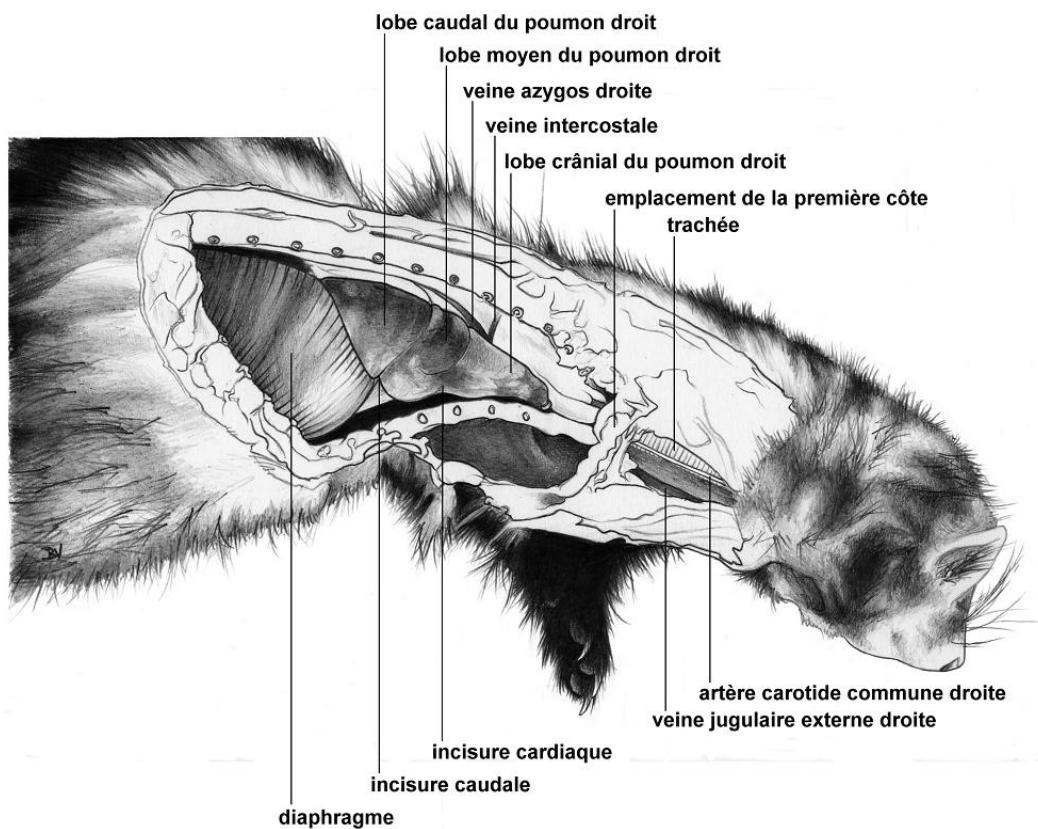
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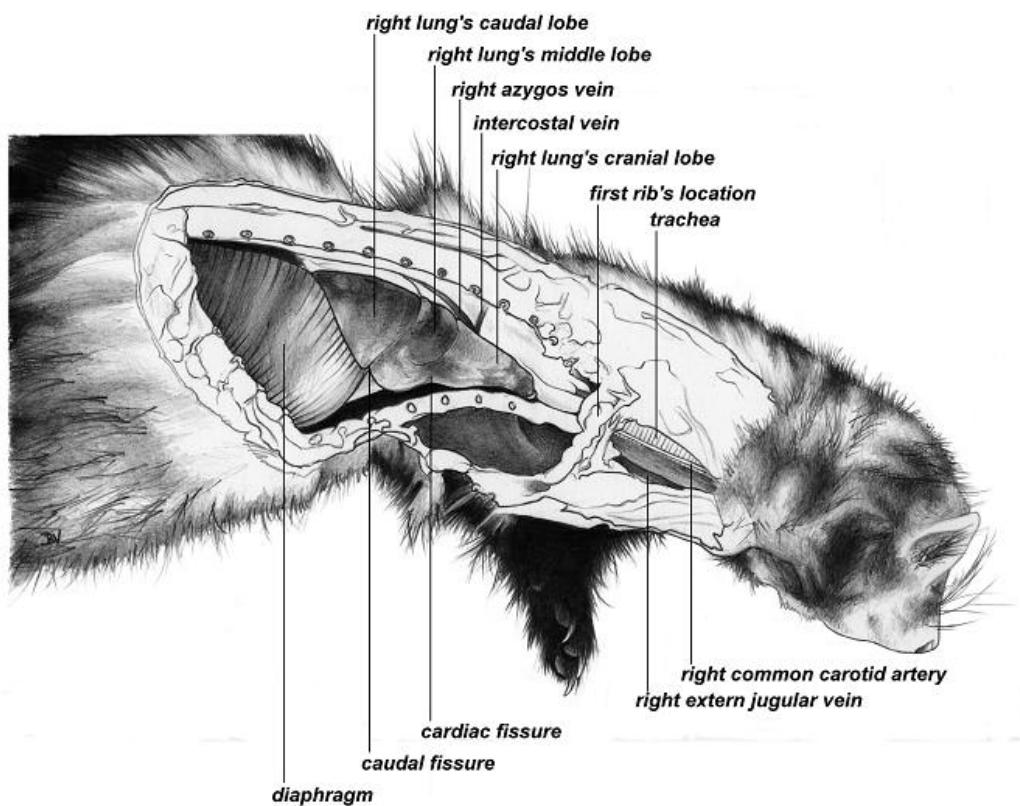
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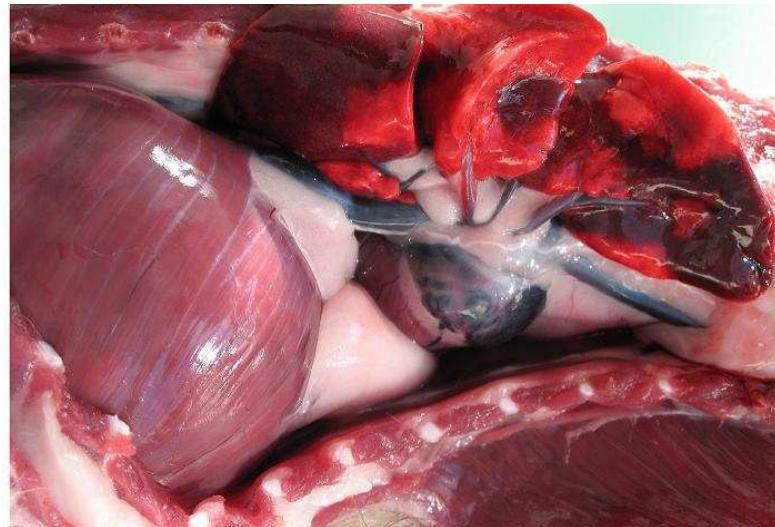


D.



**Fig. 2. Région du hile du poumon droit, poumon droit levé. Vue latérale droite [Right lung's hilum area, right lung lifted. Right lateral view].**

A.



B.



C.

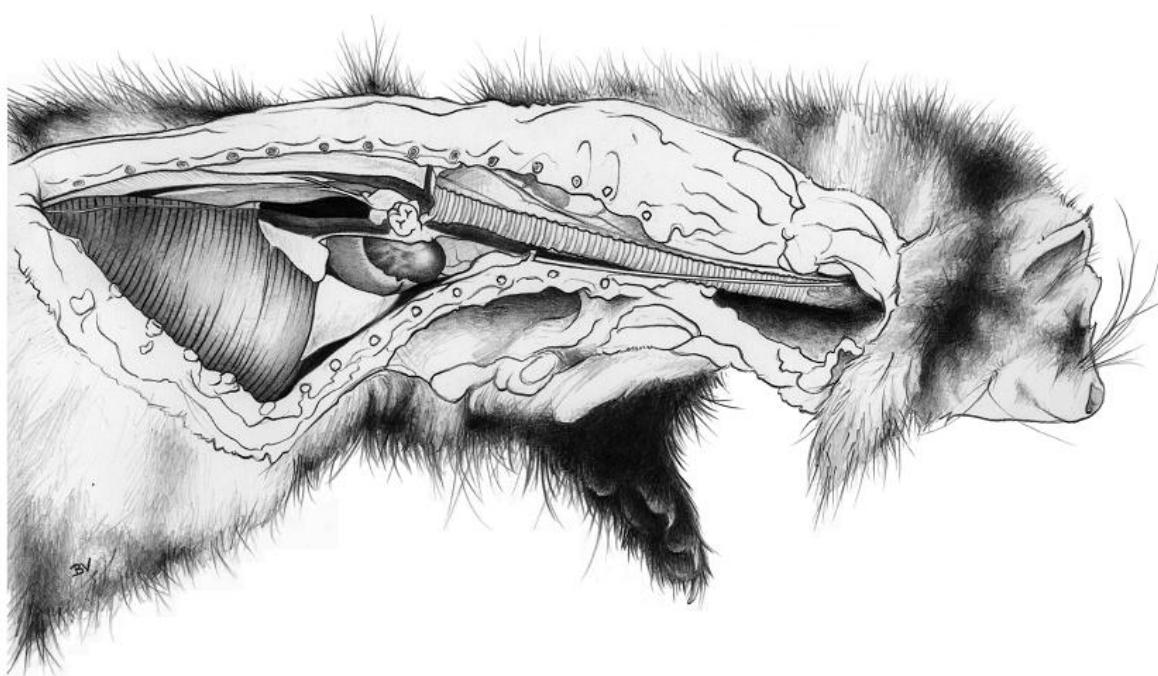


**Fig. 3. Cavité thoracique, poumon droit ôté, et enclosure. Vue latérale droite [Thoracic cavity, right lung removed, and neck. Right lateral view].**

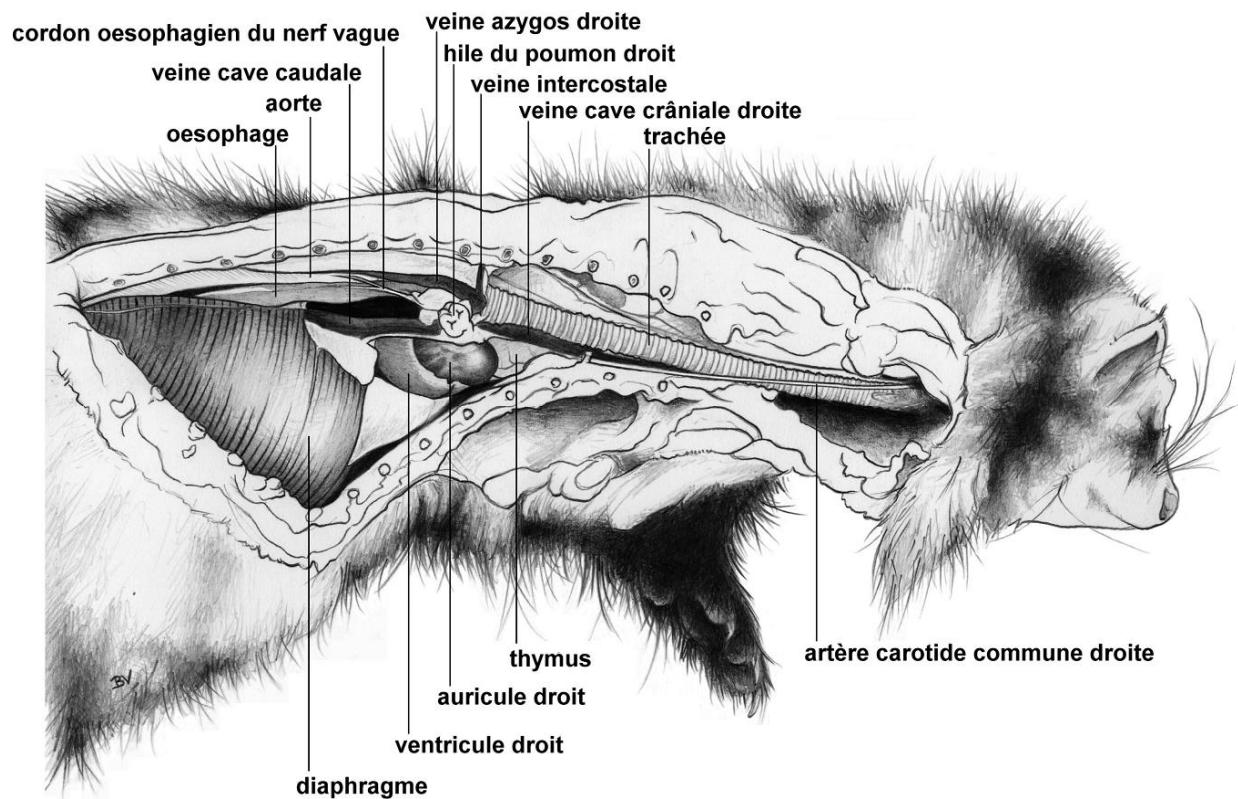
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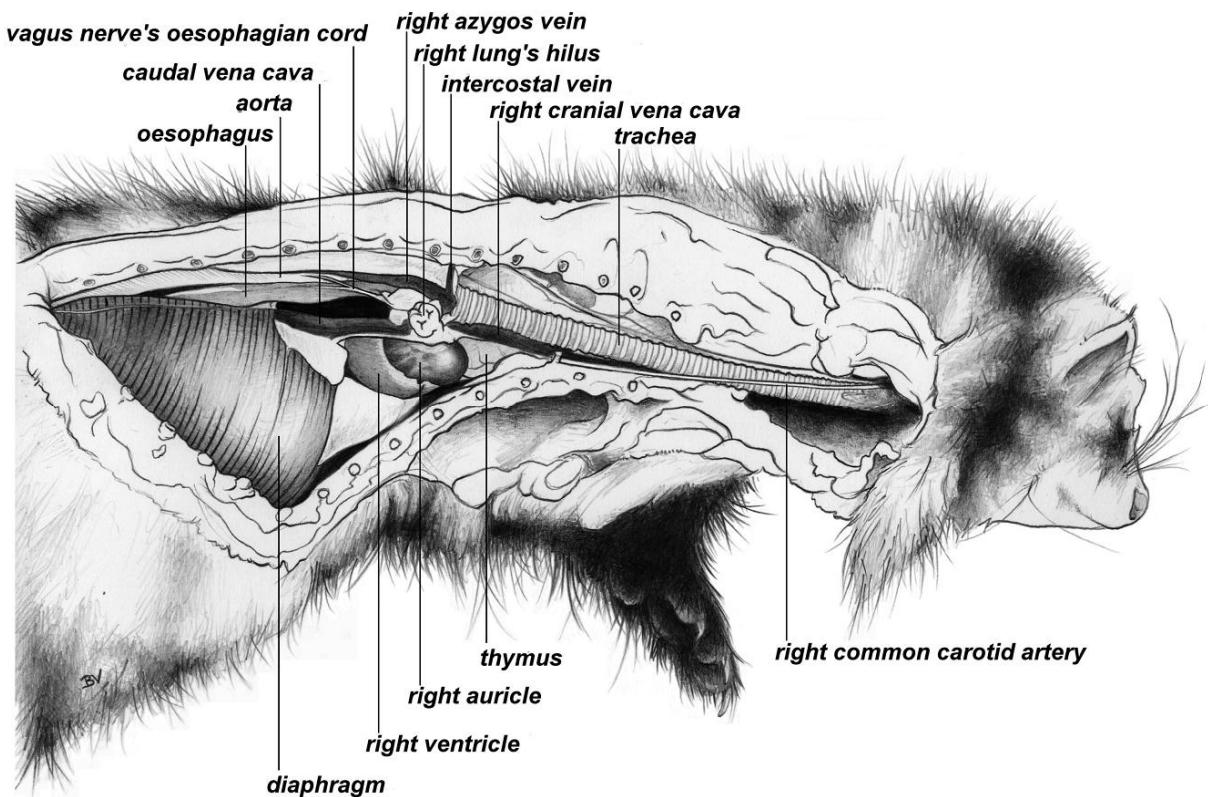
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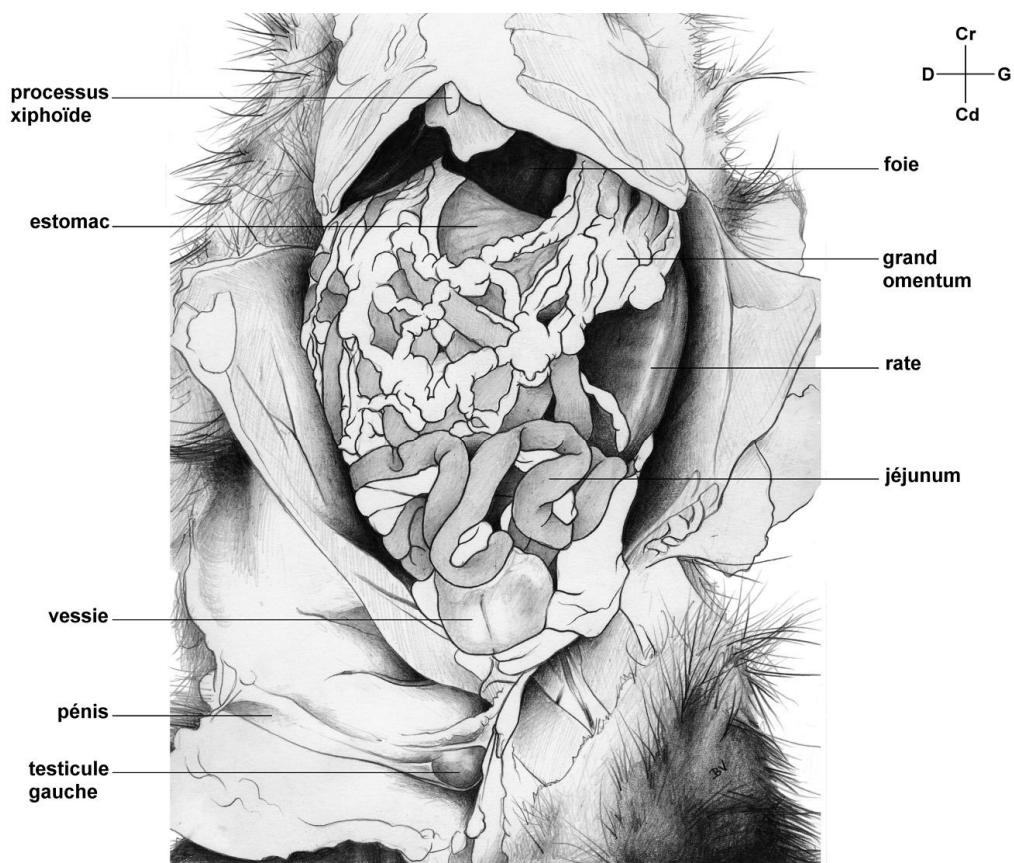
**Fig. 4. Cavité abdominale. Vue ventrale [Abdominal cavity. Ventral view].**  
A.



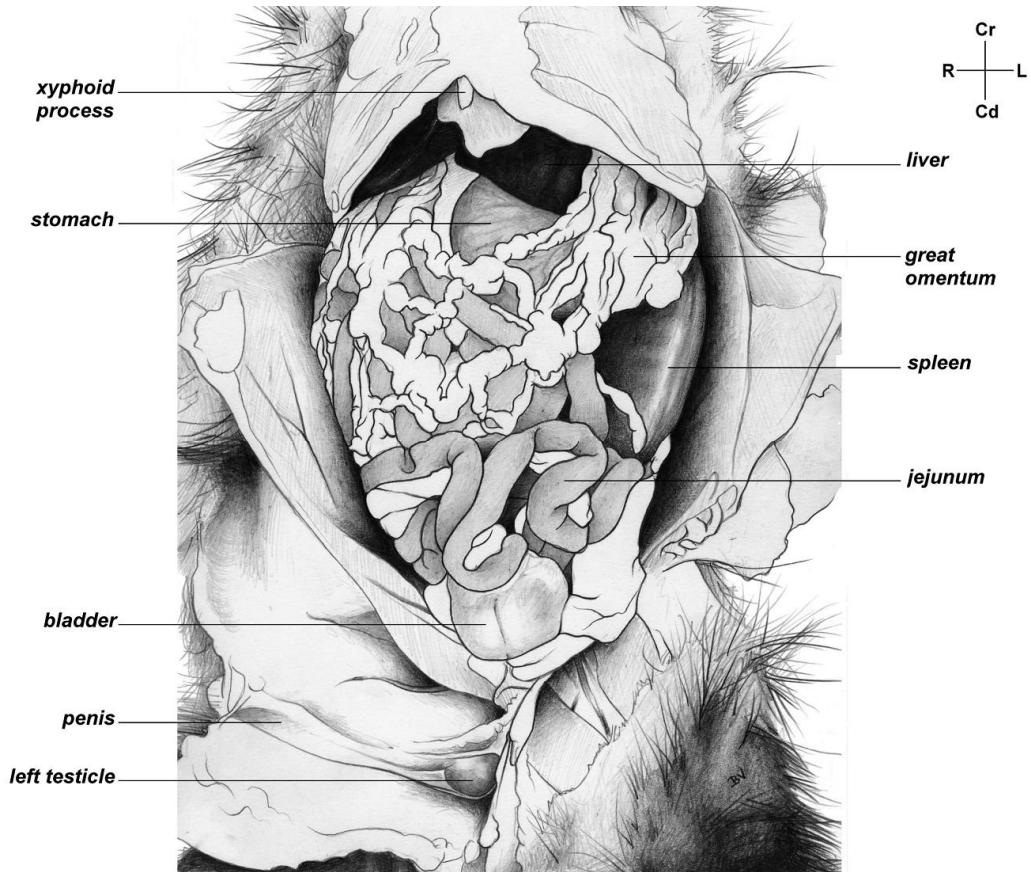
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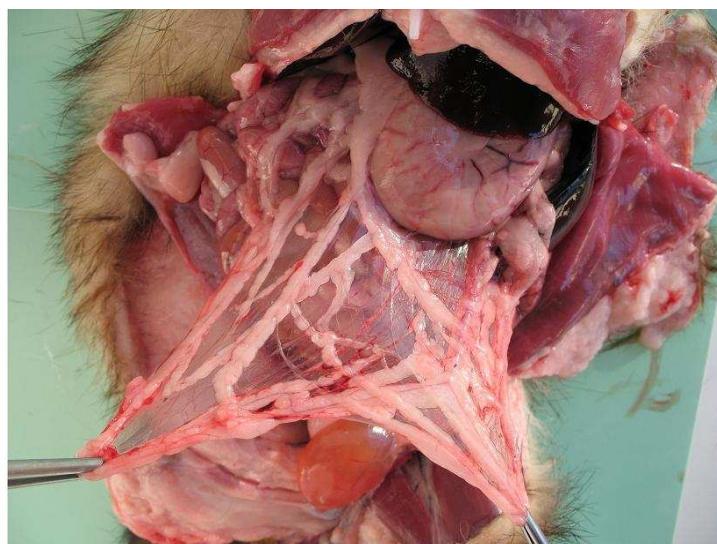


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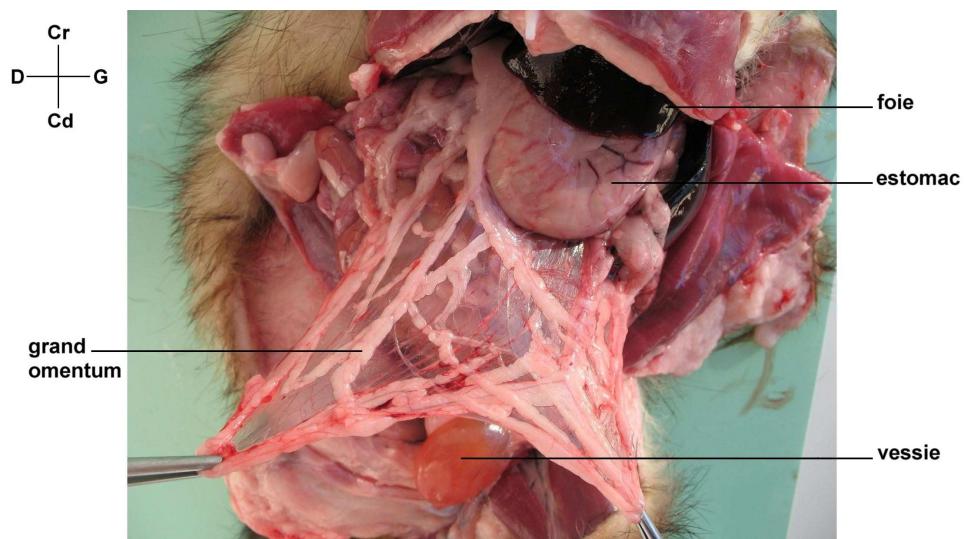


**Fig. 5. Cavité abdominale, grand omentum récliné vers l'arrière. Vue ventrale**  
**[Abdominal cavity, great omentum lifted back. Ventral view].**

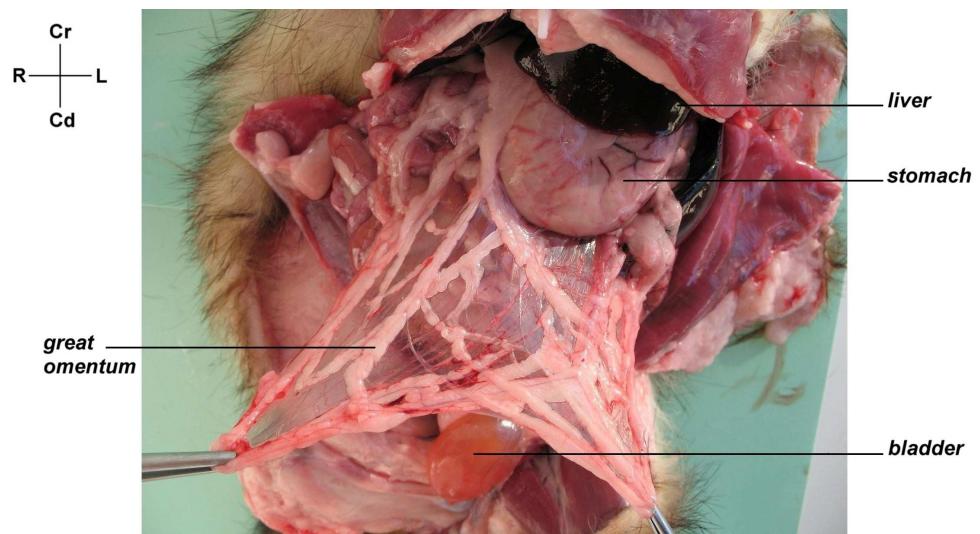
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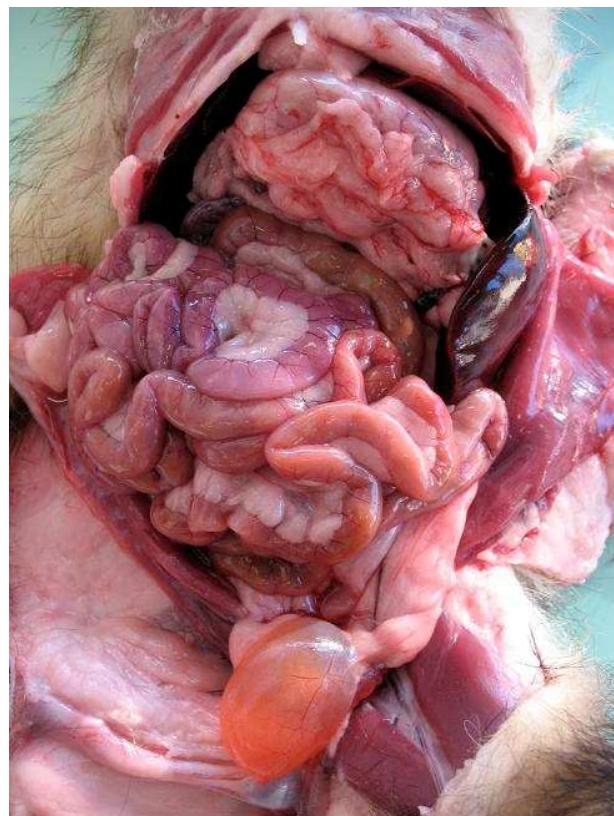


C.



**Fig. 6. Cavité abdominale, grand omentum retiré. Vue ventrale [Abdominal cavity, great omentum removed. Ventral view]**

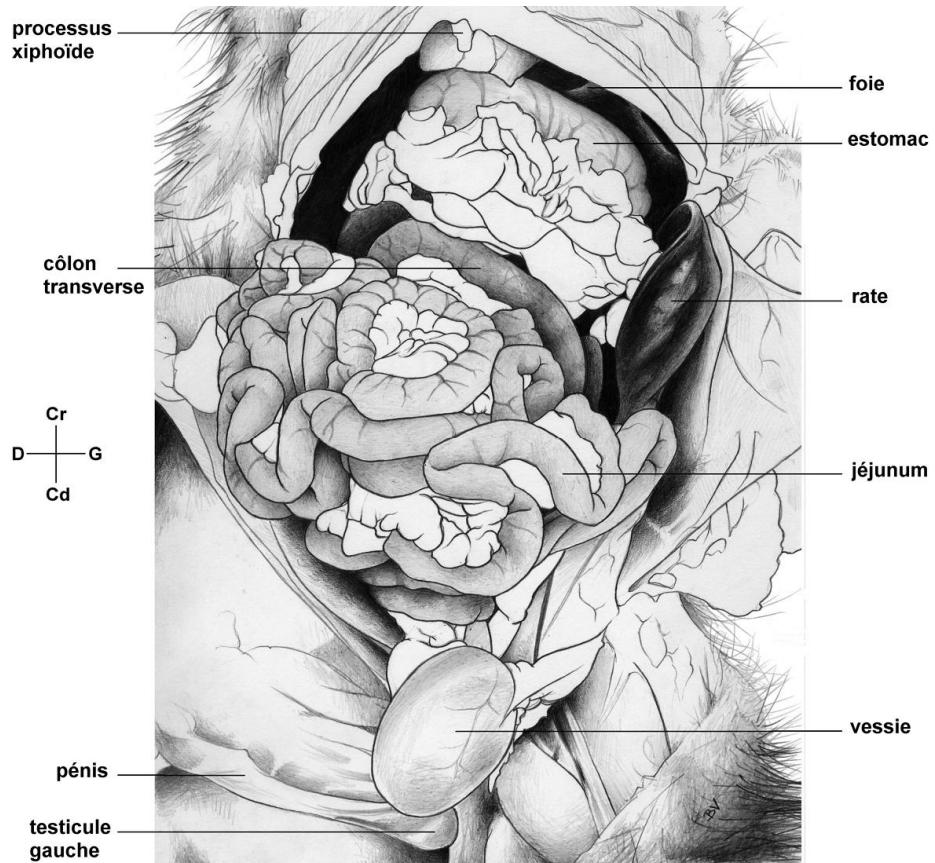
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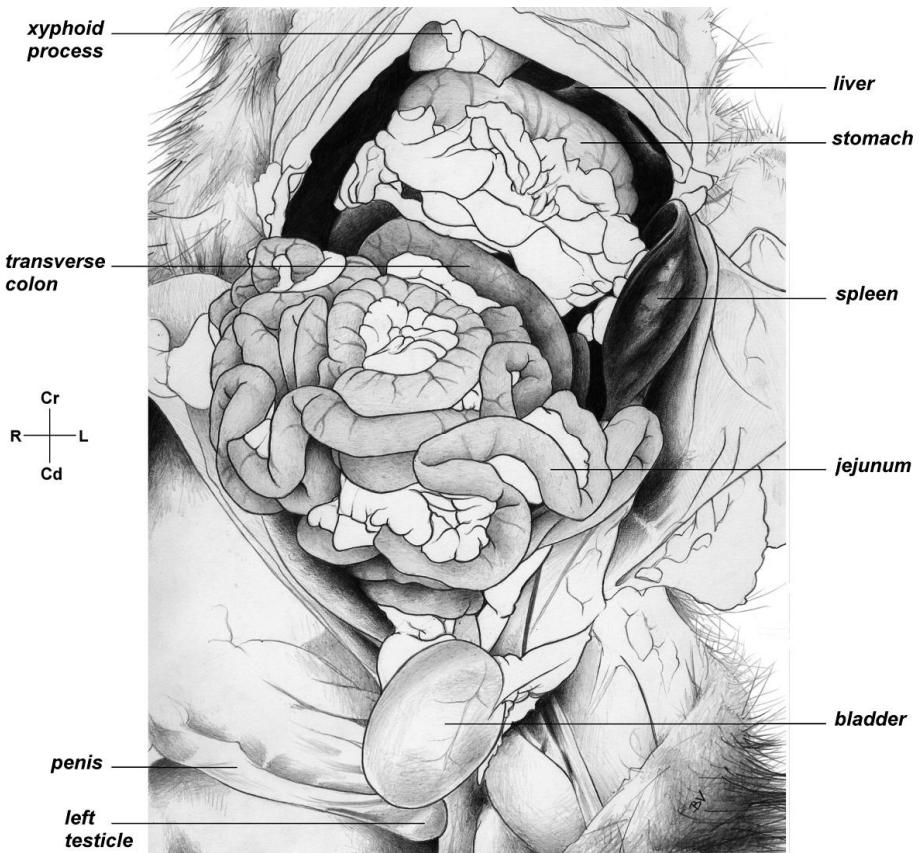
B.



C.



D.



**Fig. 7. Jéjunum : vaisseaux sanguins. Vue ventrale [Jejunum : blood vessels. Ventral view].**

A.



B.

Cr  
D G  
Cd



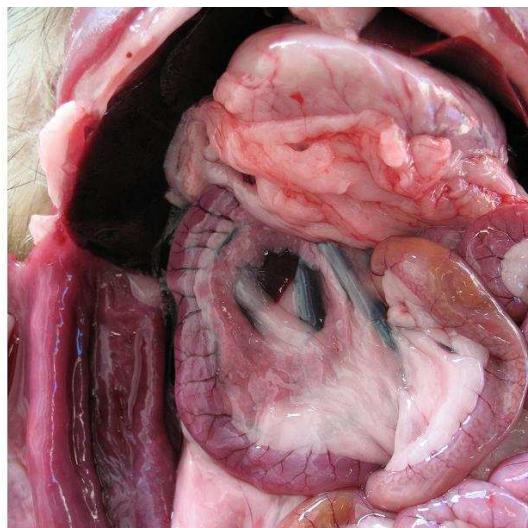
C.

Cr  
R L  
Cd

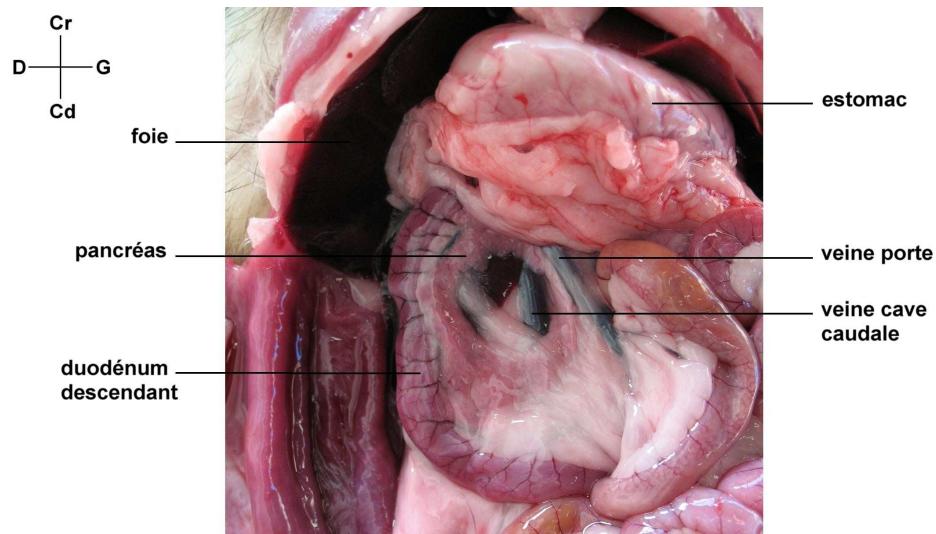


**Fig 8. Duodénum descendant et lobe droit du pancréas, vue ventrale [Descending duodenum and right pancreas' lobe, ventral view].**

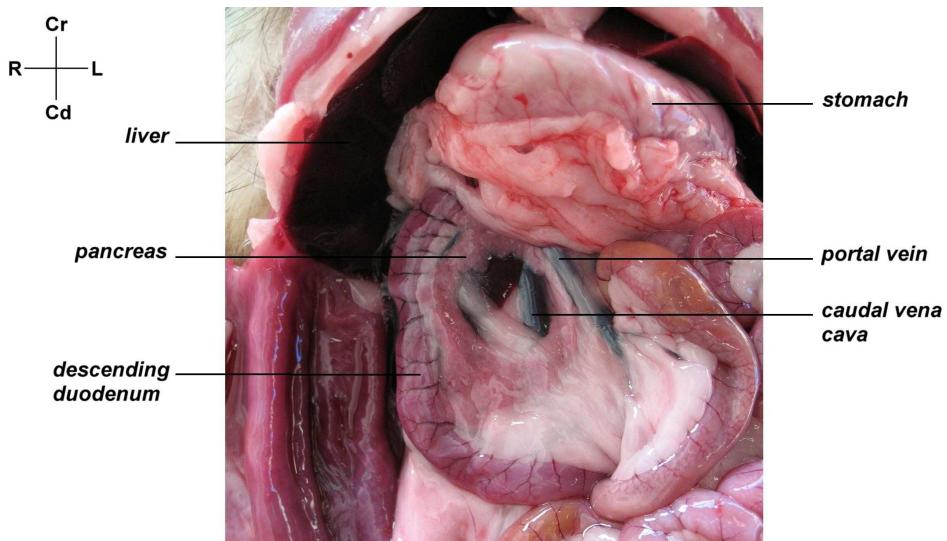
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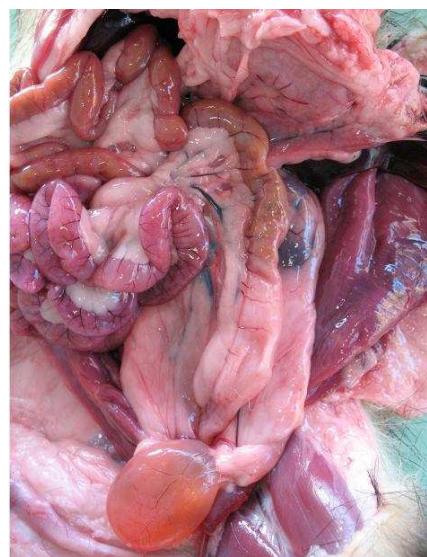
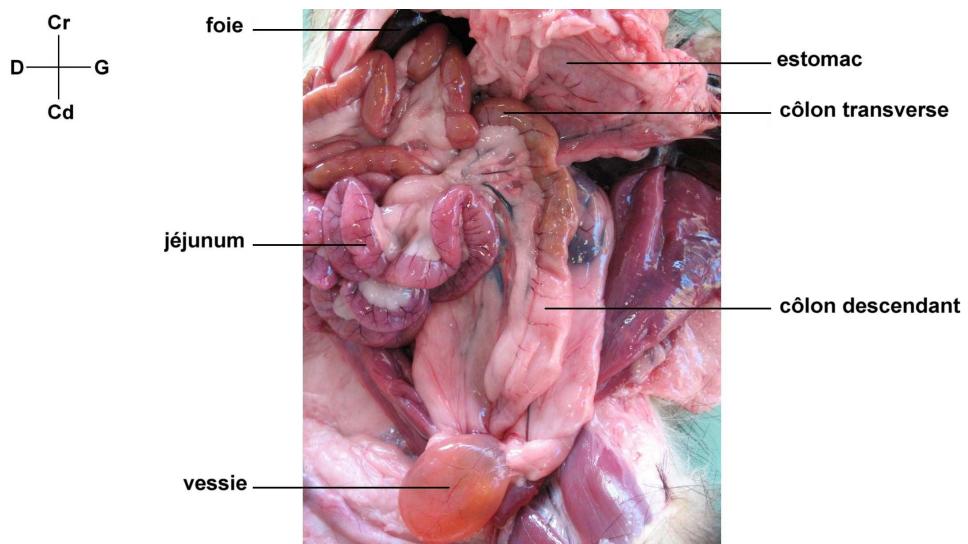
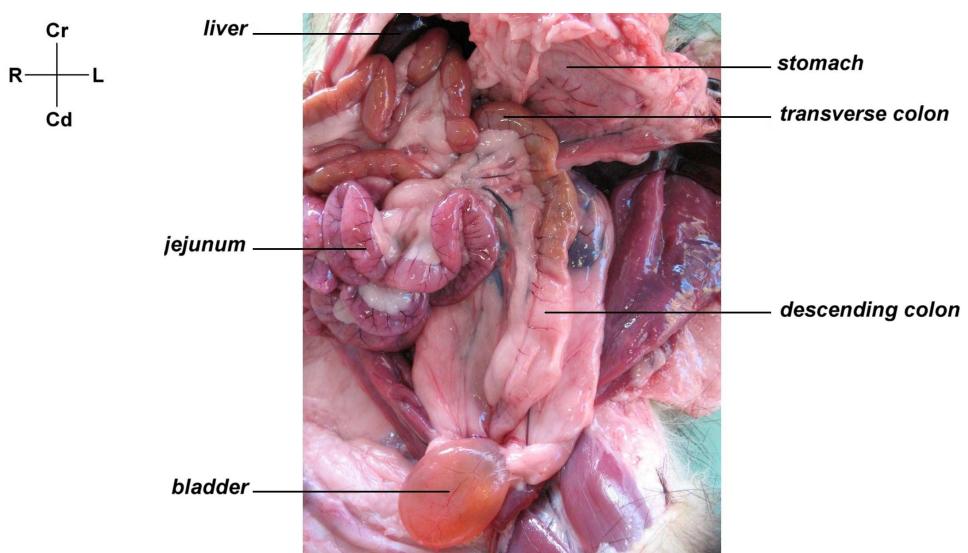


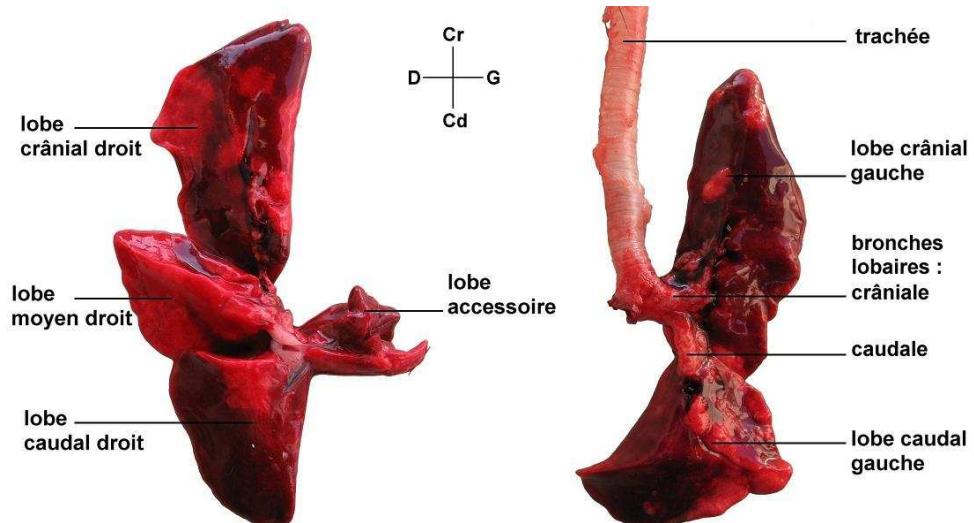
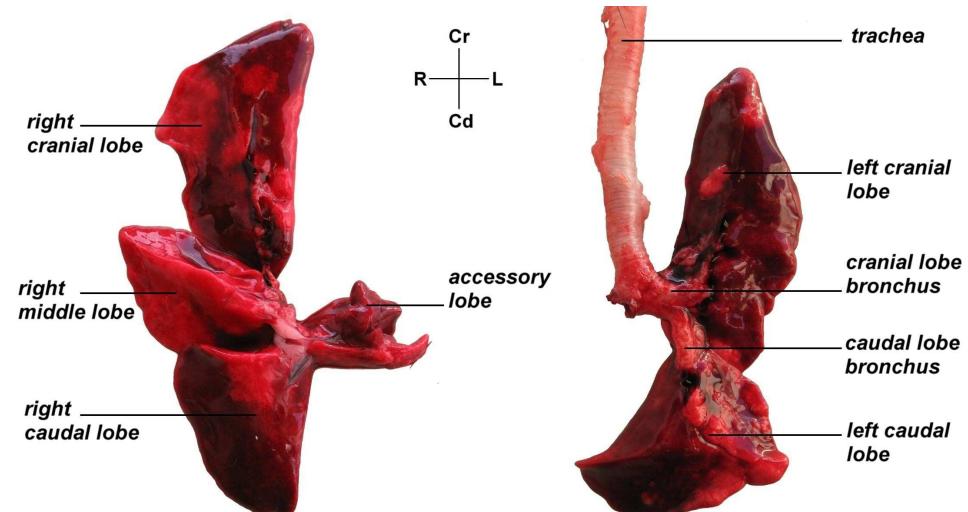
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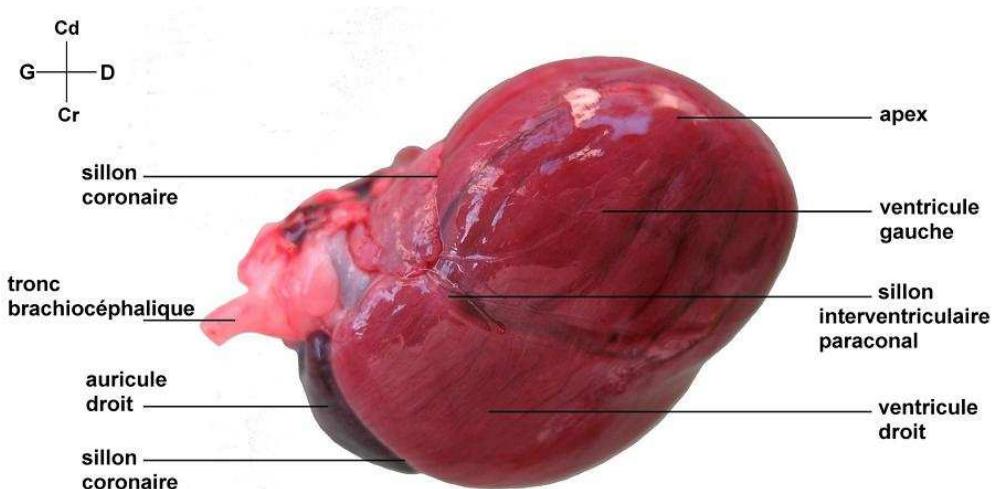
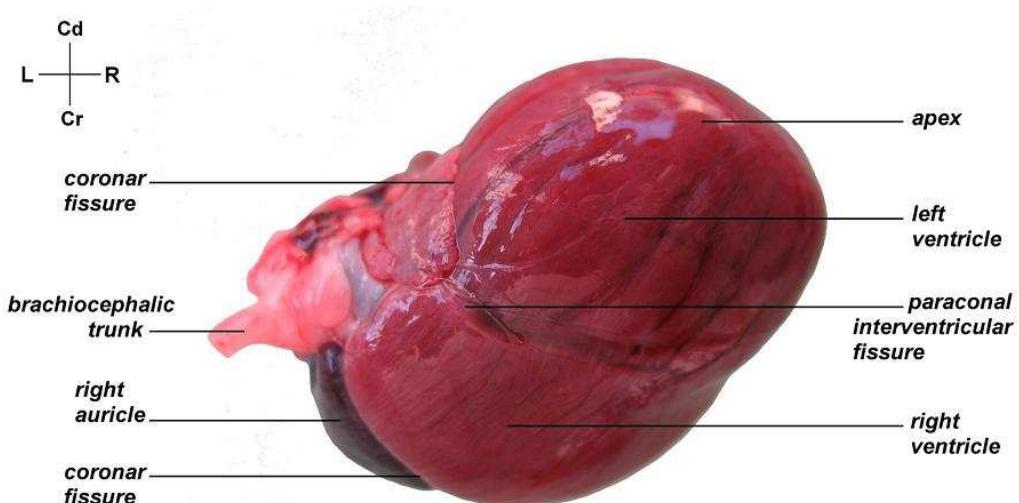


C.



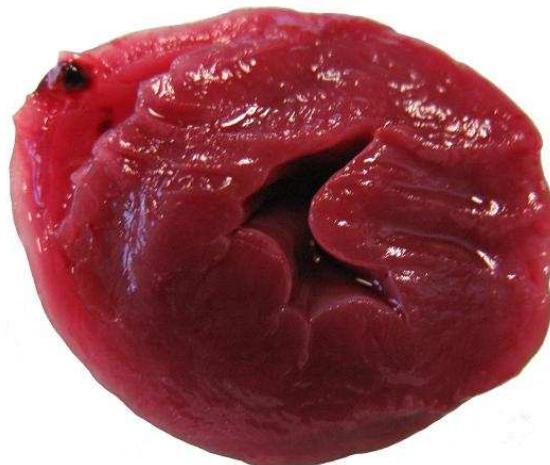
**Fig 9. Côlon descendant, vue ventrale [Descending colon, ventral view].****A.****B.****C.**

**ORGANES ISOLES****Fig. 1. Poumons droit et gauche. Vue ventrale [Right and left lungs. Ventral view].****A.****B.****C.**

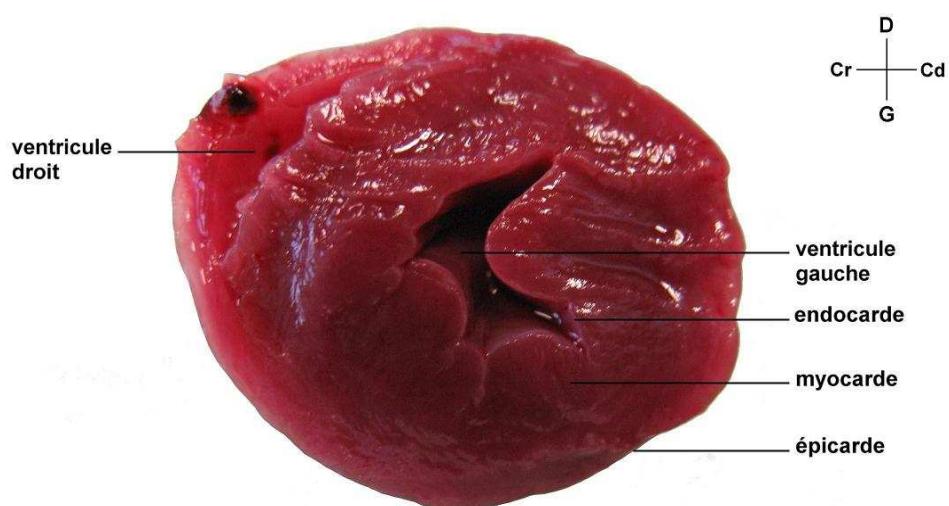
**Fig. 2a. Coeur. Vue ventrale [Heart. Ventral view].****A.****B.****C.**

**Fig. 2b. Cœur. Coupe frontale au niveau des ventricules [Heart. Frontal section in the ventricles' area].**

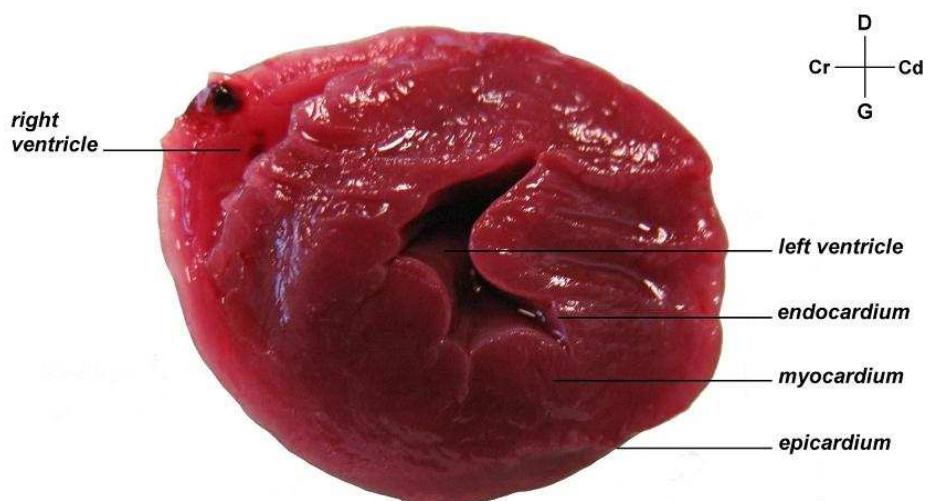
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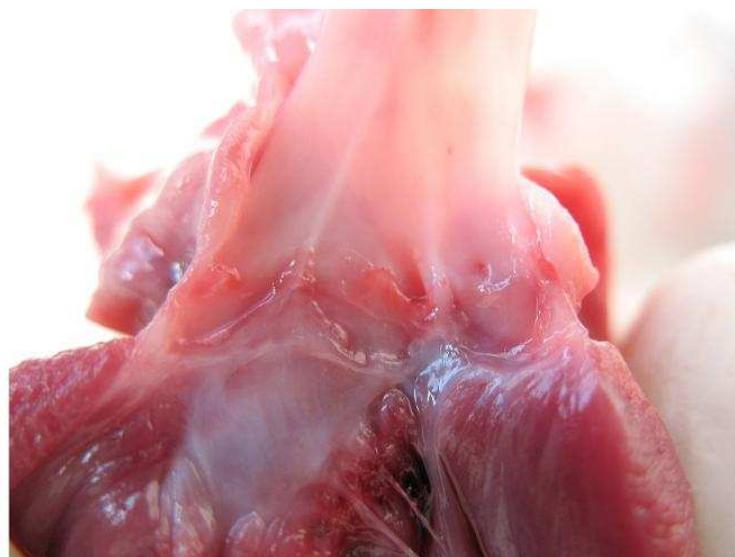
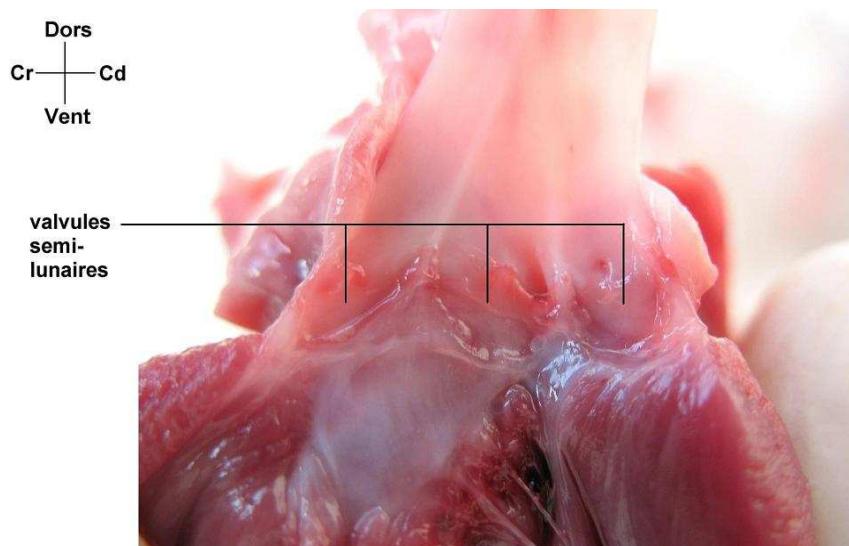
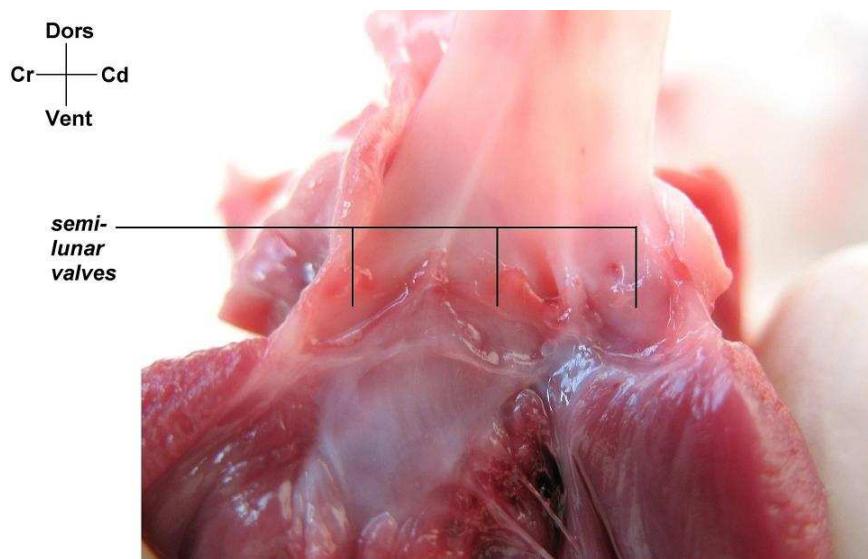


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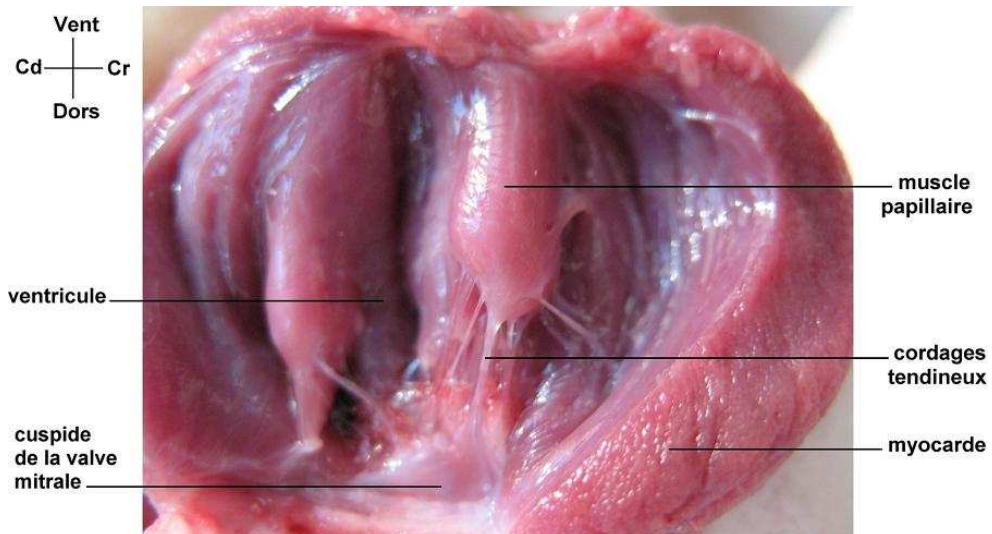
**Fig. 2c. Cœur. Valvules semi-lunaires [Heart. Semi-lunar valves].****A.****B.****C.**

**Fig. 2d. Coeur. Ventricule gauche ouvert et valve atrioventriculaire gauche (valve mitrale [Heart. Left ventricle opened and left cardiac valve (mitral valve)].**

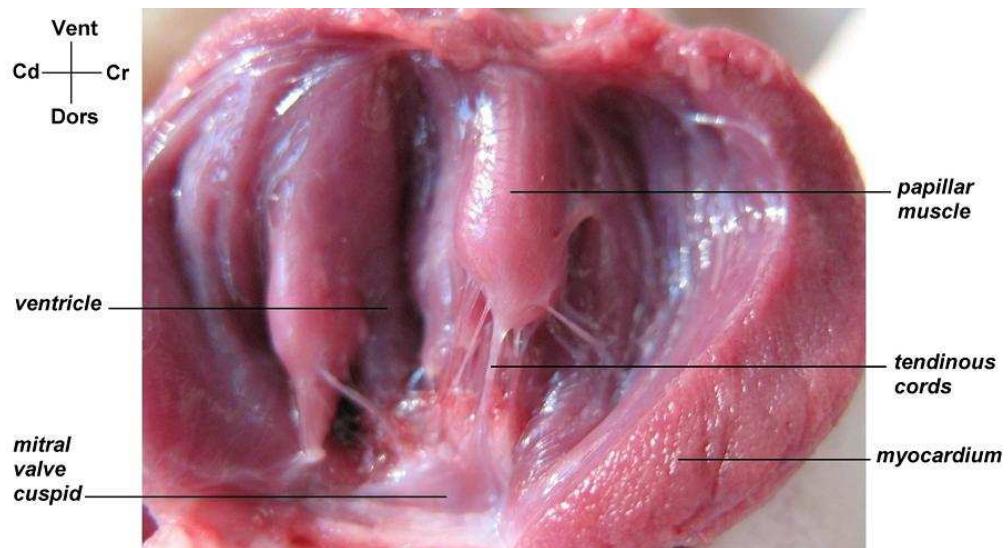
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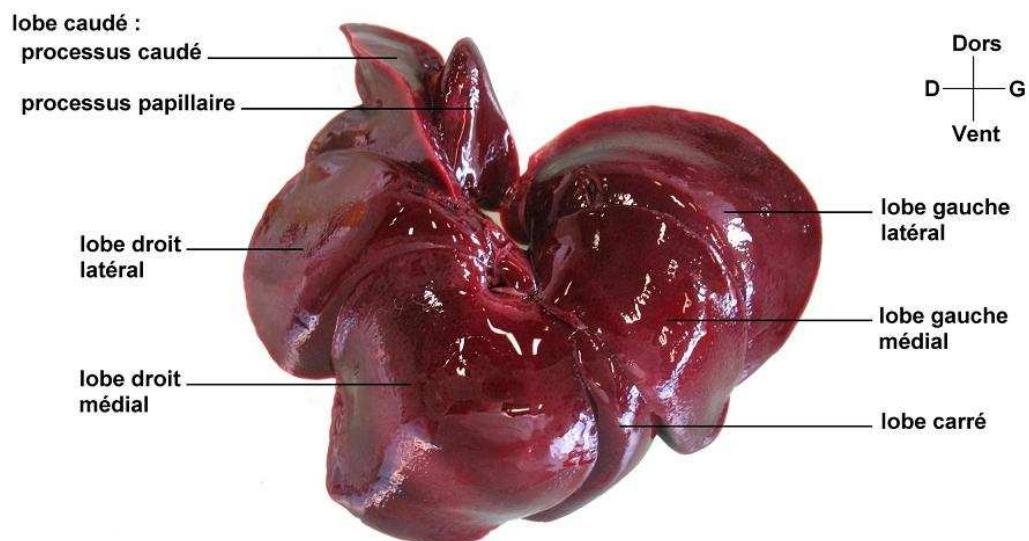
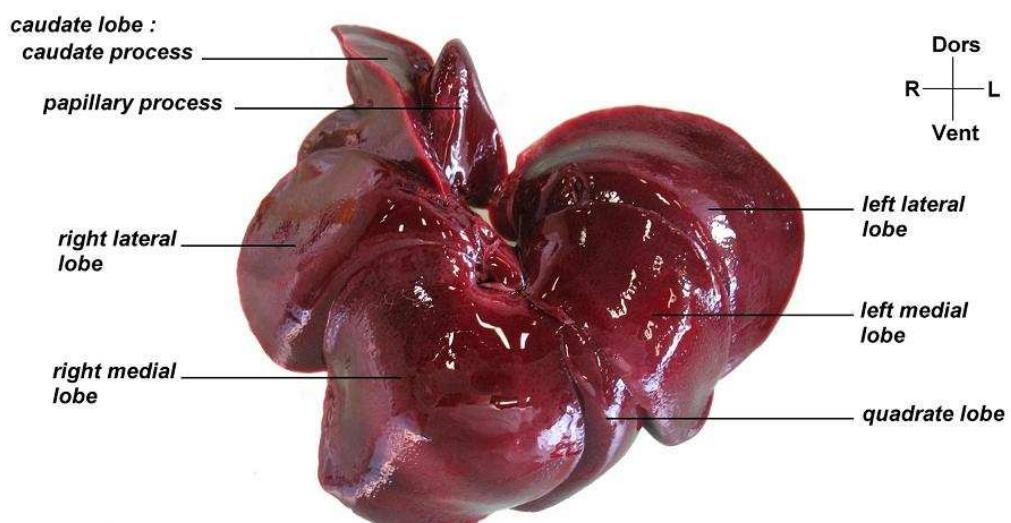


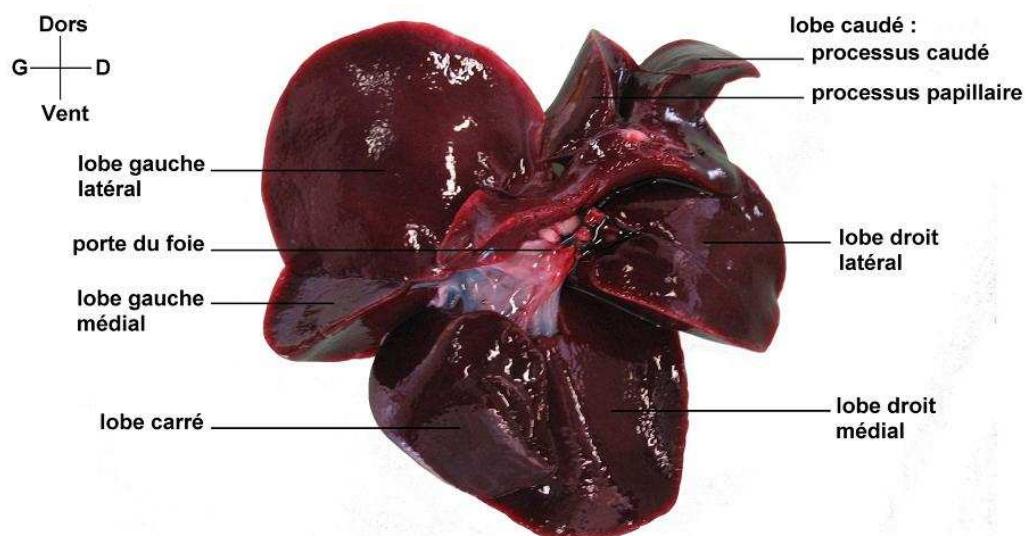
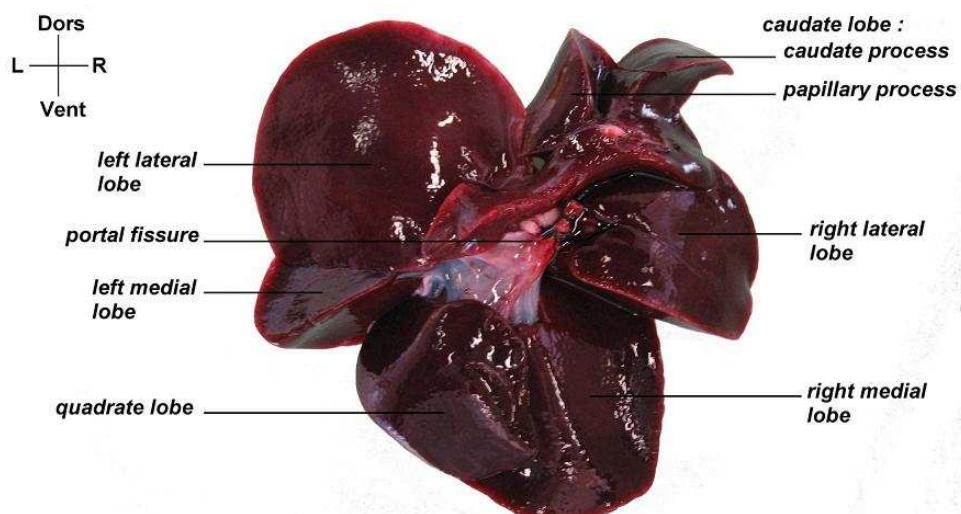
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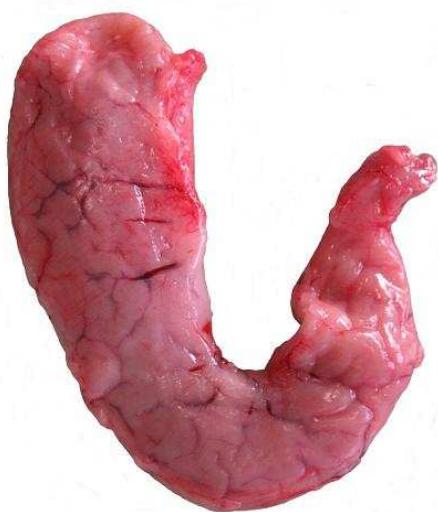
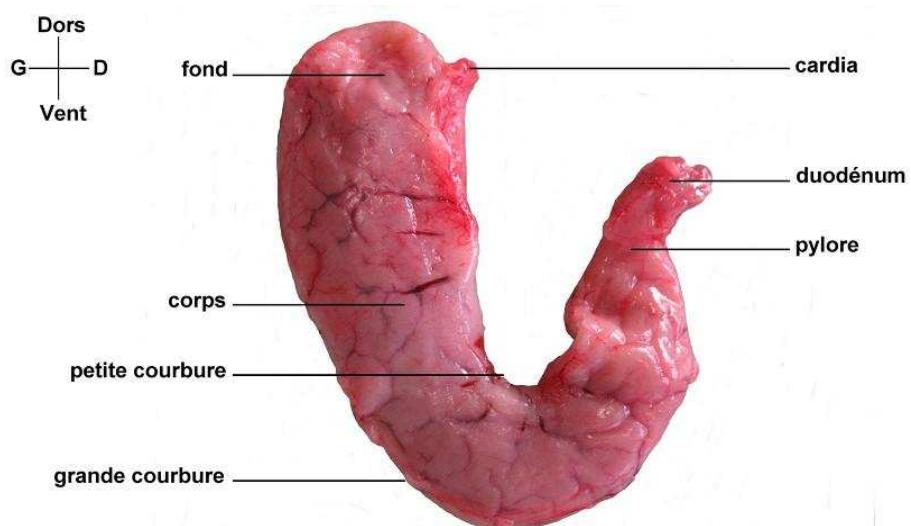
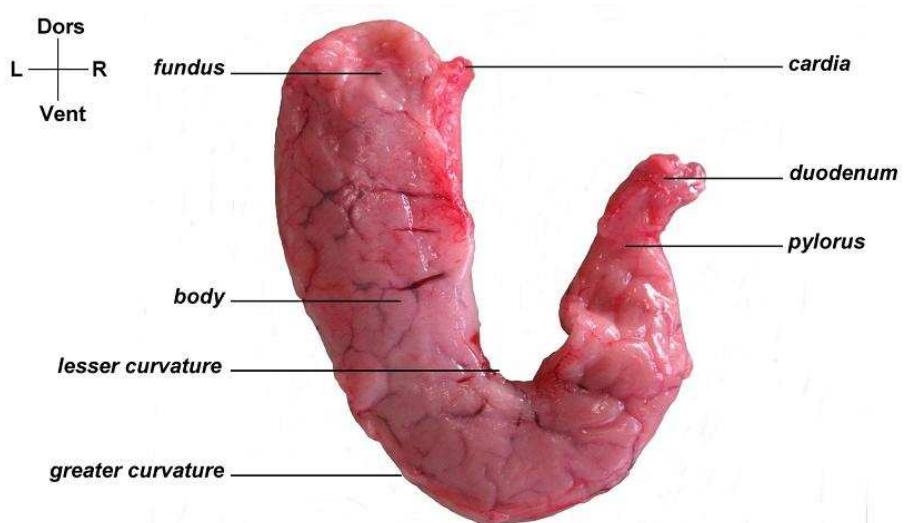


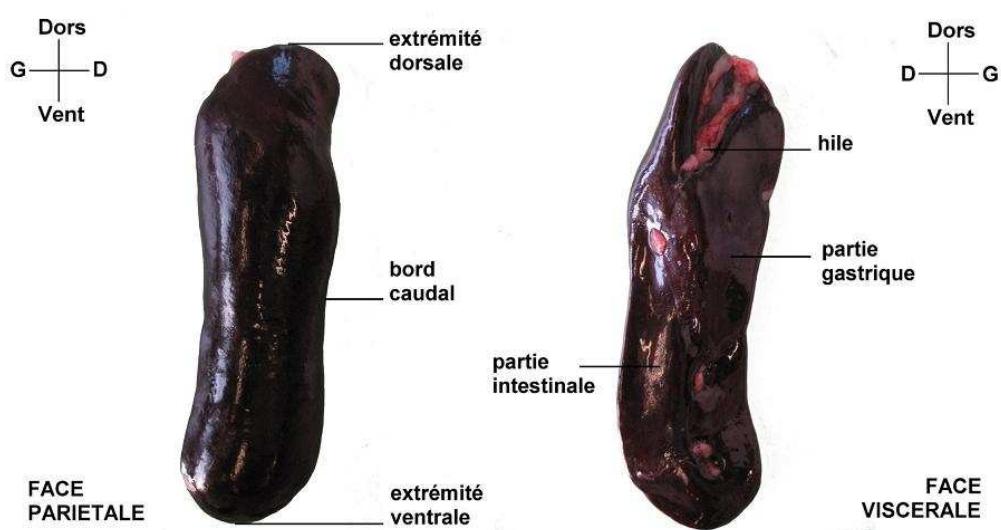
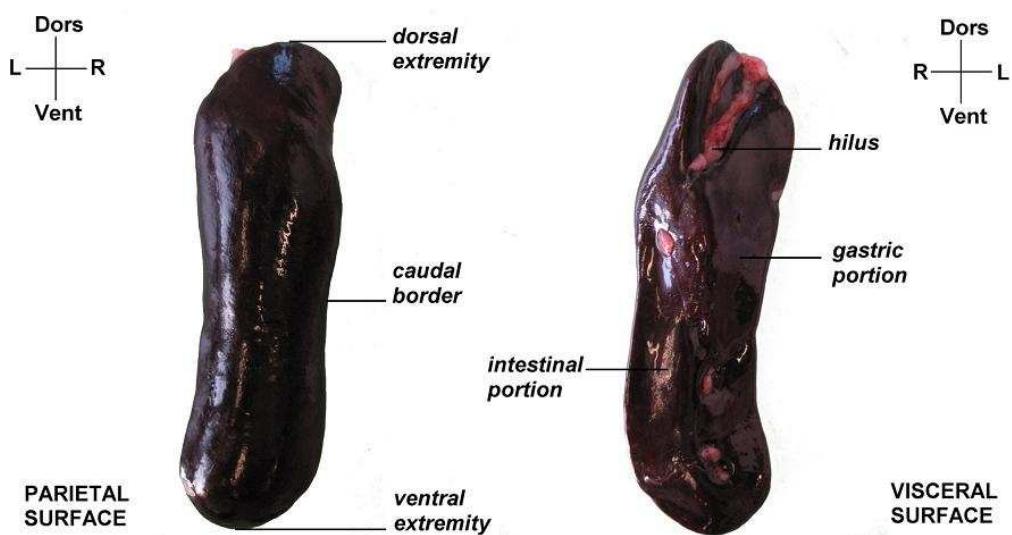
C.



**Fig. 3a. Foie. Face diaphragmatique [Liver. Diaphragmatic side].****A.****B.****C.**

**Fig. 3b. Foie. Face viscérale [Liver. Visceral side].****A.****B.****C.**

**Fig. 4. Estomac. Vue caudale [Stomach. Caudal view].****A.****B.****C.**

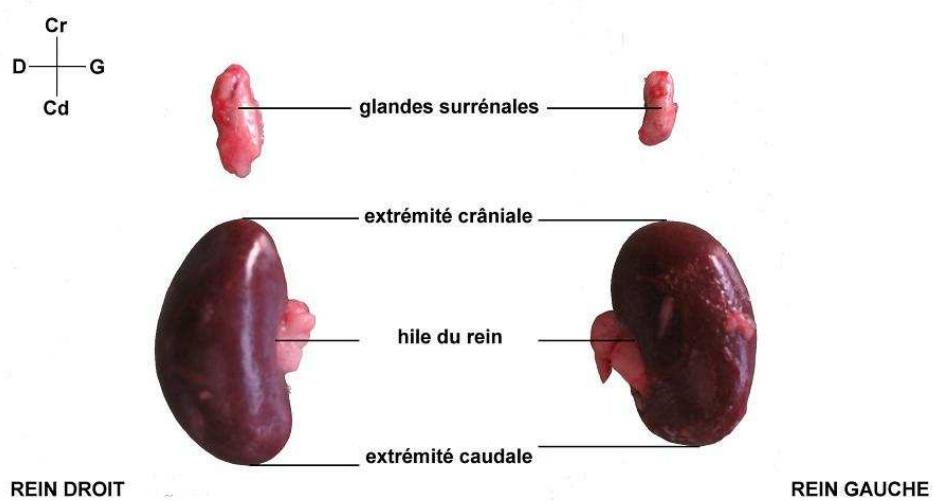
**Fig. 5. Rate. Faces pariétale et viscérale [Spleen. Parietal and visceral sides].****A.****B.****C.**

**Fig. 6. Reins droit et gauche, accompagnés des glandes surrénales. Vue ventrale [Right and left kidneys, with suprarenal glands].**

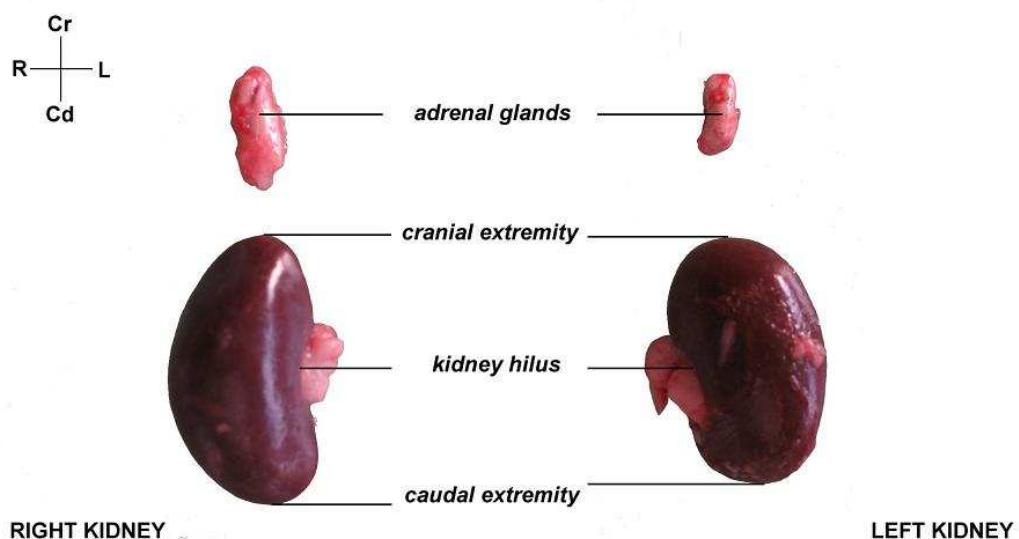
A.

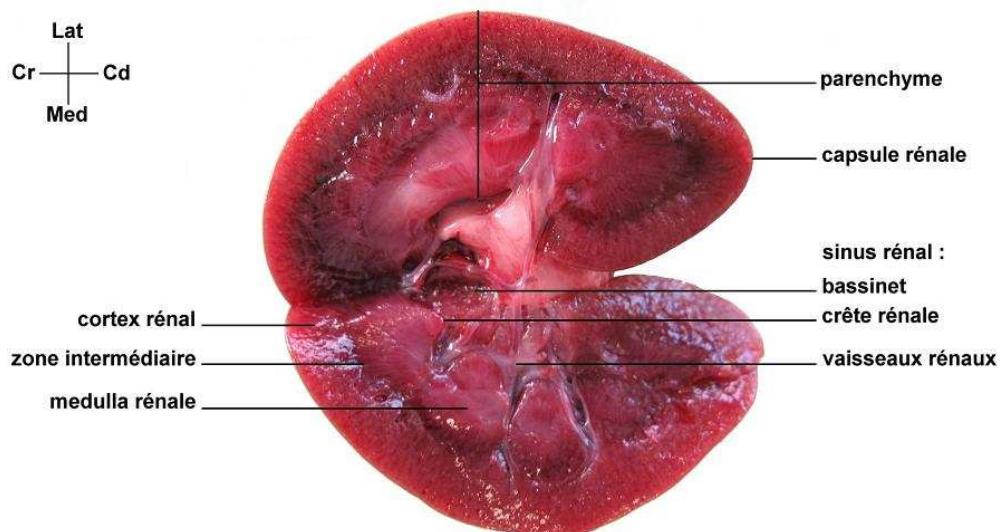
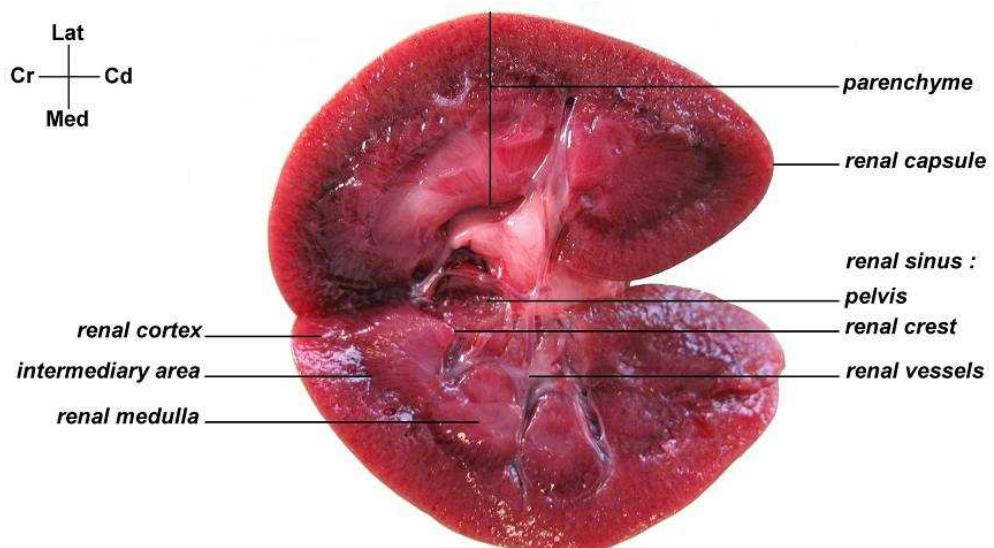


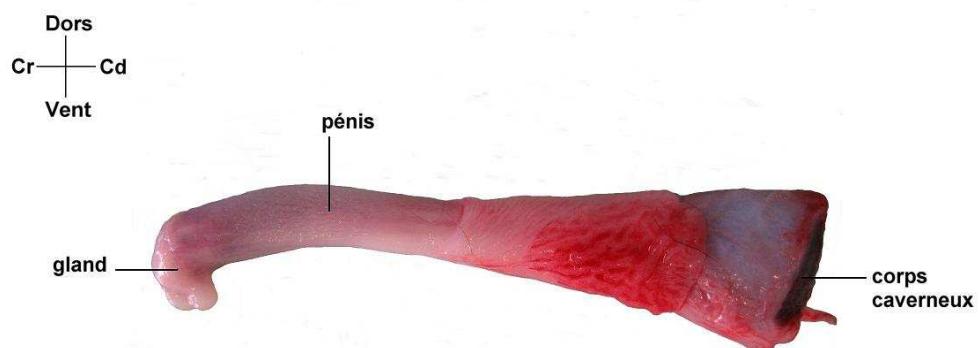
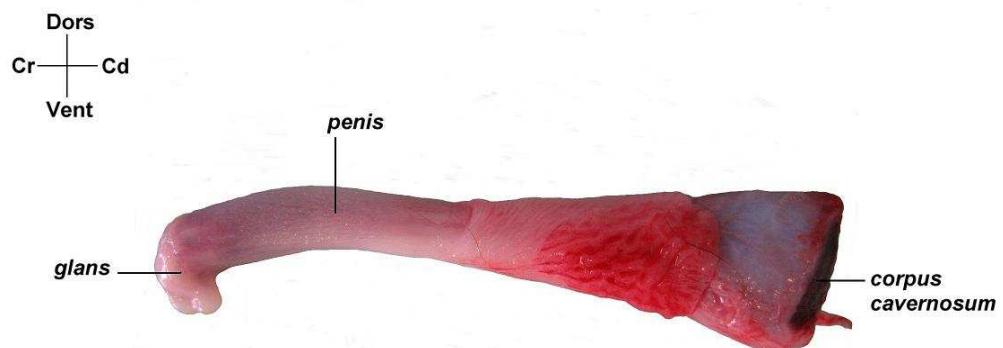
B.



C.



**Fig. 7. Rein, coupe médiane [Kidney, median section].****A.****B.****C.**

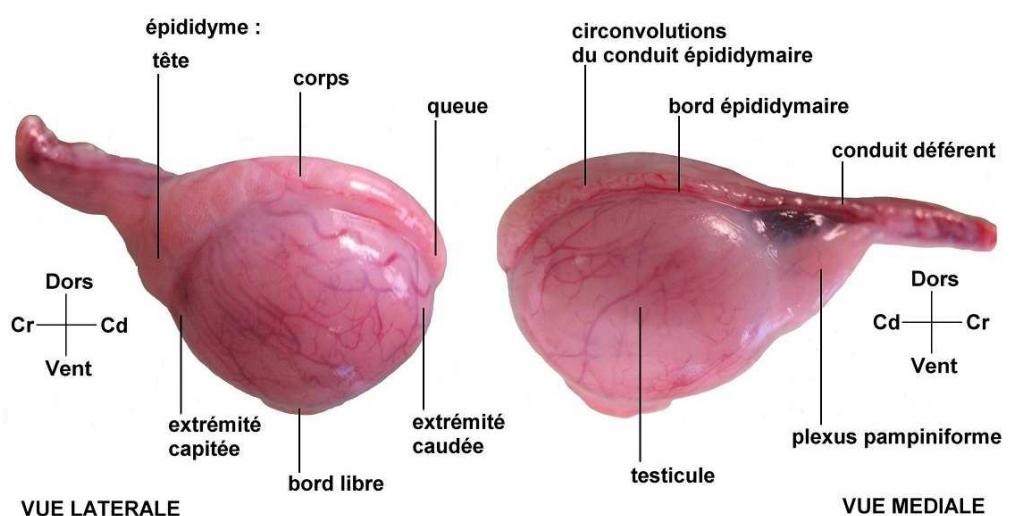
**Fig. 8. Pénis, vue latérale gauche [Penis, left lateral view].****A.****B.****C.**

**Fig 9. Testicule gauche : vues latérale et médiale [Left testicle : lateral and medial views].**

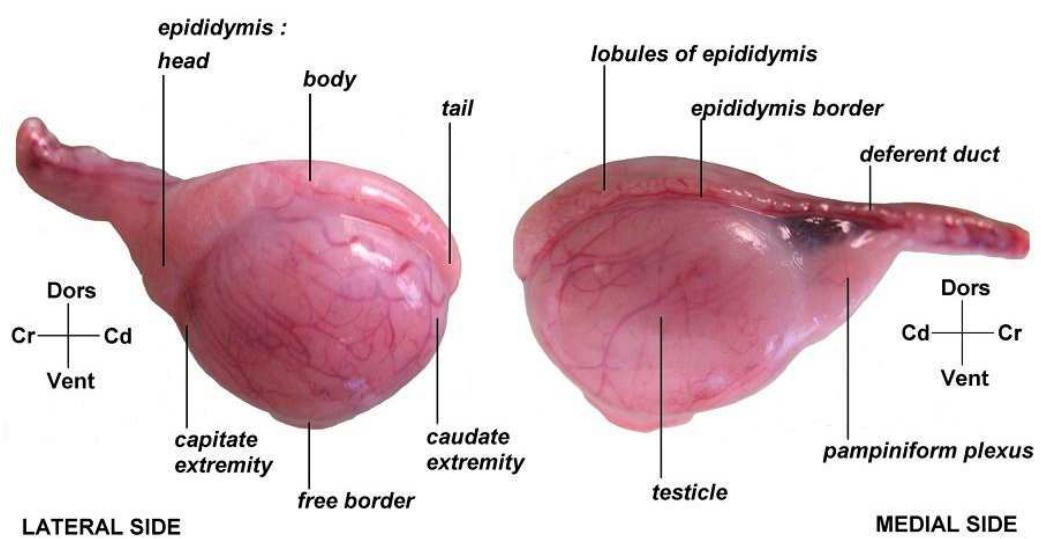
A.



B.



C.



## Nomenclature internationale [International nomenclature]

Français	English	<i>Nomina Anatomica Veterinaria</i>
<b>Cavité thoracique</b>	<b>Thoracic cavity</b>	<b><i>Cavum thoracis</i></b>
Trachée	Trachea	<i>Trachea</i>
Oesophage	Oesophagus	<i>Oesophagus</i>
Côte	Rib	<i>Costa vera</i>
Veine jugulaire externe	Extern jugular vein	<i>V. jugularis externa</i>
Artère carotide commune	Common carotid artery	<i>A. carotis communis</i>
Veine intercostale	Intercostal vein	<i>V. intercostale dorsale</i>
Veine azygos	Azygos vein	<i>V. azygos</i>
Veine pulmonaire	Pulmonary vein	<i>V. pulmonalis</i>
Lobe crânial du poumon	Lung cranial lobe	<i>Lobus cranialis pulmonis</i>
Lobe moyen du poumon	Lung middle lobe	<i>Lobus medius pulmonis</i>
Lobe caudal du poumon	Lung caudal lobe	<i>Lobus caudalis pulmonis</i>
Incisure cardiaque	Cardiac fissure	<i>Incisura cardiaca pulmonis</i>
Incisure caudale	Caudal fissure	<i>Fissura interlobaris caudalis</i>
Veine cave crâniale	Cranial vena cava	<i>V. cava cranialis</i>
Veine cave caudale	Caudal vena cava	<i>V. cava caudalis</i>
Auricule droit	Right auricle	<i>Atrium dextrum</i>
Ventricule droit	Right ventricle	<i>Ventriculus dexter</i>
Diaphragme	Diaphragm	<i>Diaphragma</i>
Hile du poumon	Lung hilus	<i>Hilus pulmonis</i>
Aorte	Aorta	<i>Aorta</i>
Cordon oesophagien du nerf vague	Vagus nerve's oesophagian cord	<i>Nervus vagus ramus esophageus</i>
Thymus	Thymus	<i>Thymus</i>
<b>Cavité abdominale</b>	<b>Abdominal cavity</b>	<b><i>Cavum abdominis</i></b>
Processus xiphoïde	Xyphoid process	<i>Processus xiphoides</i>
Foie	Liver	<i>Hepar</i>
Estomac	Stomach	<i>Ventriculus</i>
Grand omentum	Great omentum	<i>Omentum majus</i>
Rate	Spleen	<i>Lien</i>
Jéjunum	Jejunum	<i>jejunum</i>
Vessie	Bladder	<i>Vesica urinaria</i>
Pénis	Penis	<i>Penis</i>
Testicule gauche	Left testicle	<i>Testis sinister</i>
Côlon transverse	Transverse colon	<i>Colon transversum</i>
Artères jéjunales	Jejunal arteries	<i>Aa. jejunales</i>
Tissu adipeux	Adipose tissue	<i>Textus adiposus</i>
Panréas	Pancreas	<i>Pancreas</i>
Duodénum descendant	Descending duodenum	<i>Duodenum pars descendens</i>
Veine cave caudale	Caudal vena cava	<i>V. cava caudalis</i>
Veine porte	Portal vein	<i>V. portae</i>
Côlon descendant	Descending colon	<i>Colon descendens</i>

<b>Poumons droit et gauche</b>	<b>Right and left lungs</b>	<b>Pulmo [dexter et sinister]</b>
Lobe crânial droit	<i>Right cranial lobe</i>	<i>Lobus cranialis pulmonis dexter</i>
Lobe moyen droit	<i>Right middle lobe</i>	<i>Lobus medius pulmonis dexter</i>
Lobe caudal droit	<i>Right caudal lobe</i>	<i>Lobus caudalis pulmonis dexter</i>
Lobe accessoire	<i>Accessory lobe</i>	<i>Lobus accessorius pulmonis dexter</i>
Lobe crânial gauche	<i>Left cranial lobe</i>	<i>Lobus cranialis pulmonis sinister</i>
Lobe caudal gauche	<i>Left caudal lobe</i>	<i>Lobus caudalis pulmonis sinister</i>
Bronches lobaires	<i>Lobar bronchi</i>	<i>Bronchi lobares</i>
<b>Cœur</b>	<b>Heart</b>	<b>Cor</b>
Apex	<i>Apex</i>	<i>Apex cordis</i>
Ventricule gauche	<i>Left ventricle</i>	<i>Ventriculus sinister</i>
Sillon interventriculaire paraconal	<i>Paraconal interventricular fissure</i>	<i>Sulcus interventricularis paraconalis</i>
Ventricule droit	<i>Right ventricle</i>	<i>Ventriculus dexter</i>
Auricule droit	<i>Right auricle</i>	<i>Atrium dextrum</i>
Sillon coronaire	<i>Coronar fissure</i>	<i>Sulcus coronarius</i>
Tronc pulmonaire	<i>Pulmonary trunk</i>	<i>Truncus pulmonaris</i>
Endocarde	<i>Endocardium</i>	<i>Endocardium</i>
Myocarde	<i>Myocardium</i>	<i>Myocardium</i>
Epicarde	<i>Epicardium</i>	<i>Epicardium</i>
Valvules semi-lunaires	<i>Semi-lunar valves</i>	<i>Valvula semilunaris [septalis, dextra et sinistra]</i>
Muscle papillaire	<i>Papillar muscle</i>	<i>Musculus papillaris</i>
Cordages tendineux	<i>Tendinous cords</i>	<i>Chordae tendinae</i>
Cuspide de la valve mitrale	<i>Mitral valve cuspid</i>	<i>Valva mitralis cuspis</i>
<b>Foie</b>	<b>Liver</b>	<b>Hepar</b>
Face diaphragmatique	<i>Diaphragmatic surface</i>	<i>Facies diaphragmatica</i>
Lobe caudé	<i>Caudate lobe</i>	<i>Lobus caudatus</i>
Processus caudé	<i>Caudate process</i>	<i>Processus caudatus</i>
Processus papillaire	<i>Papillary process</i>	<i>Processus papillaris</i>
Lobe latéral droit	<i>Right lateral lobe</i>	<i>Lobus hepatis dexter lateralis</i>
Lobe droit médial	<i>Right medial lobe</i>	<i>Lobus hepatis dexter medialis</i>
Lobe carré	<i>Quadrata lobe</i>	<i>Lobus quadratus</i>
Lobe gauche médial	<i>Left medial lobe</i>	<i>Lobus hepatis sinister medialis</i>
Lobe latéral gauche	<i>Left lateral lobe</i>	<i>Lobus hepatis sinister lateralis</i>
Face viscérale	<i>Visceral surface</i>	<i>Facies visceralis</i>
Porte du foie	<i>Portal fissure</i>	<i>Porta hepatis</i>
<b>Estomac</b>	<b>Stomach</b>	<b>Ventriculus</b>
Fond	<i>Fundus</i>	<i>Fundus ventriculi</i>
Cardia	<i>Cardia</i>	<i>Pars cardiaca</i>
Corps	<i>Body</i>	<i>Corpus ventriculi</i>
Petite courbure	<i>Lesser curvature</i>	<i>Curvatura ventriculi minor</i>
Grande courbure	<i>Greater curvature</i>	<i>Curvatura ventriculi major</i>

<b>Pylore</b>	<i>Pylorus</i>	<i>Pylorus</i>
<b>Rate</b>	<i>Spleen</i>	<i>Lien</i>
Extrémité dorsale	<i>Dorsal extremity</i>	<i>Extremitas dorsalis</i>
Bord caudal	<i>Caudal border</i>	<i>Margo caudalis</i>
Extrémité ventrale	<i>Ventral extremity</i>	<i>Extremitas ventralis</i>
Hile	<i>Hilus</i>	<i>Hilus lienis</i>
Partie gastrique	<i>Gastric portion</i>	<i>Facies gastrica</i>
Partie intestinale	<i>Intestinal portion</i>	<i>Facies intestinalis</i>
Face viscérale	<i>Visceral surface</i>	<i>Facies visceralis</i>
Face pariétale	<i>Parietal surface</i>	<i>Facies parietalis</i>
<b>Rein</b>	<i>Kidney</i>	<i>Ren</i>
Extrémité crâniale	<i>Cranial extremity</i>	<i>Extremitas cranialis</i>
Extrémité caudale	<i>Caudal extremity</i>	<i>Extremitas caudalis</i>
Hile du rein	<i>Renal hilus</i>	<i>Hilus renalis</i>
Glandes surrénales	<i>Adrenal glands</i>	<i>Glandulae adrenales accessoriae</i>
Parenchyme	<i>Parenchyme</i>	<i>Parenchyma</i>
Capsule rénale	<i>Renal capsule</i>	<i>Capsula renalis</i>
Sinus rénal	<i>Renal sinus</i>	<i>Sinus renalis</i>
Bassinet	<i>Pelvis</i>	<i>Pelvis renalis</i>
Crête rénale	<i>Renal crest</i>	<i>Crista renalis</i>
Vaisseaux rénaux	<i>Renal vessels</i>	<i>V. renalis</i>
Cortex rénal	<i>Renal cortex</i>	<i>Cortex renis</i>
Medulla rénale	<i>Renal medulla</i>	<i>Medulla renis</i>
<b>Pénis</b>	<i>Penis</i>	<i>Penis</i>
Gland	<i>Glans</i>	<i>Glans penis</i>
Corps caverneux	<i>Corpus cavernosum</i>	<i>Corpus cavernosum penis</i>
<b>Testicule</b>	<i>Testicle</i>	<i>Testis</i>
Extrémité capitée	<i>Capitate extremity</i>	<i>Extremitas capitata</i>
Extrémité caudée	<i>Caudate extremity</i>	<i>Extremitas caudata</i>
Bord libre	<i>Free border</i>	<i>Margo liber</i>
Epididyme	<i>Epididymis</i>	<i>Epididymis</i>
Tête de l'épididyme	<i>Head of epididymis</i>	<i>Caput epididymis</i>
Corps de l'épididyme	<i>Body of epididymis</i>	<i>Corpus epididymis</i>
Queue de l'épididyme	<i>Tail of epididymis</i>	<i>Cauda epididymis</i>
Circonvolutions du conduit épидidymaire	<i>Lobules of epididymis</i>	<i>Lobuli epididymis</i>
Bord épидidymaire	<i>Epididymis border</i>	<i>Margo epididymalis</i>
Conduit déférent	<i>Deferent duct</i>	<i>Ductus deferens</i>
Plexus pampiniforme	<i>Pampiniform plexus</i>	<i>Plexus pampiniformis</i>

**Remerciements :** P. Bugnon, M. Comte, C. Douart, C. Soulard (Unité d'Anatomie Comparée, ENV Nantes, France) et un arbitre anonyme.

## Orientations bibliographiques

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Pour citer cet article : Ville B., Betti E. and C. Guintard (2009). Mini-atlas anatomique des viscères des cavités thoracique et abdominale du furet (*Mustela putorius furo*, L. 1758), *Cahier d'Anatomie Comparée*, 2009 (2) : 1-31. C@C All rights reserved.

To cite this article: Ville B., Betti E. et C. Guintard (2009). Thoracic and abdominal viscera short anatomy-atlas of the European ferret (*Mustela putorius furo*, L. 1758), *Cahier d'Anatomie Comparée*, 2009 (2):1-31. C@C All rights reserved.