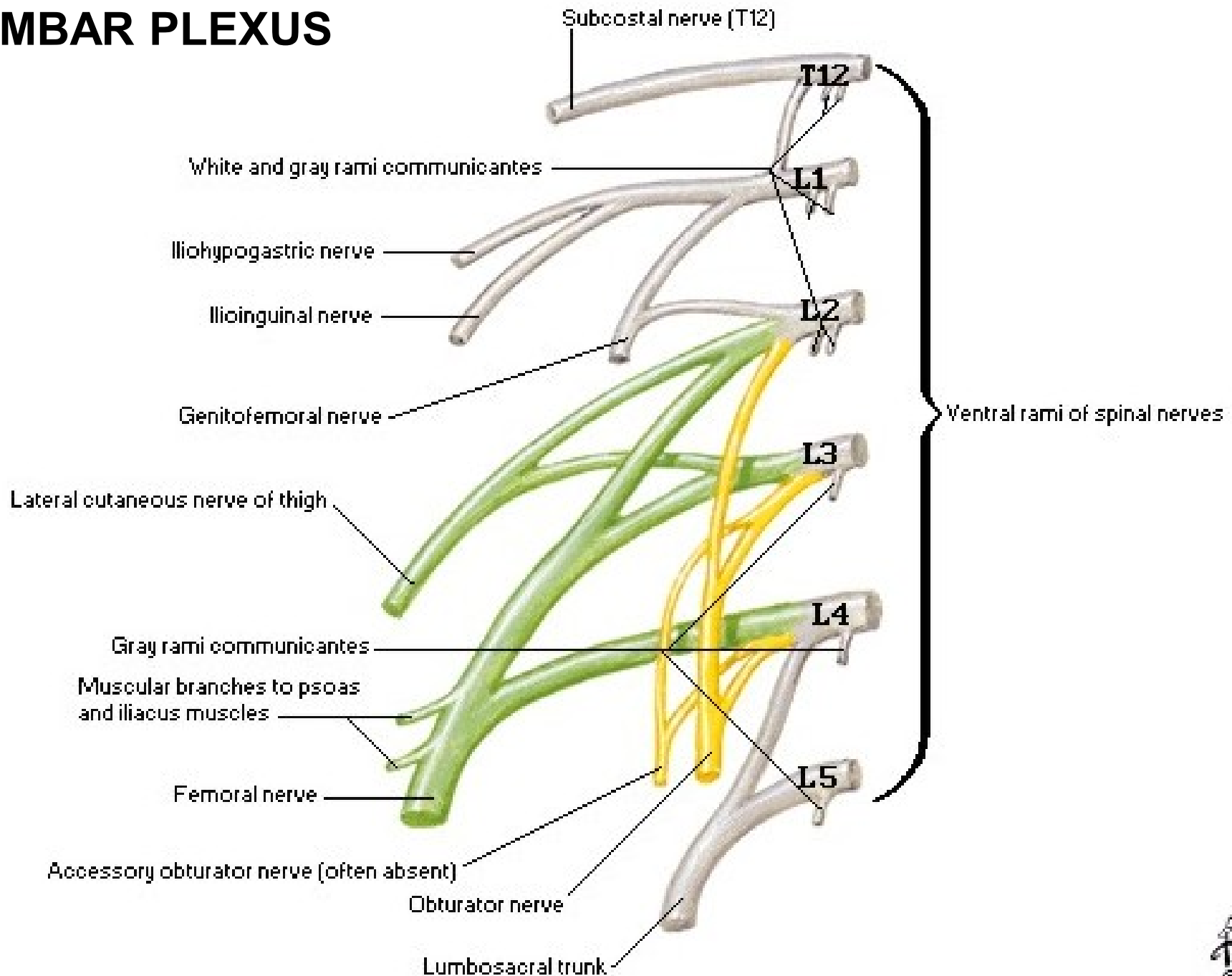


**PLEXUS LUMBALIS (T12 – L4)**

# LUMBAR PLEXUS



# PLEXUS LUMBALIS

Rr. musculares

N. iliohypogastricus

N. ilioinguinalis

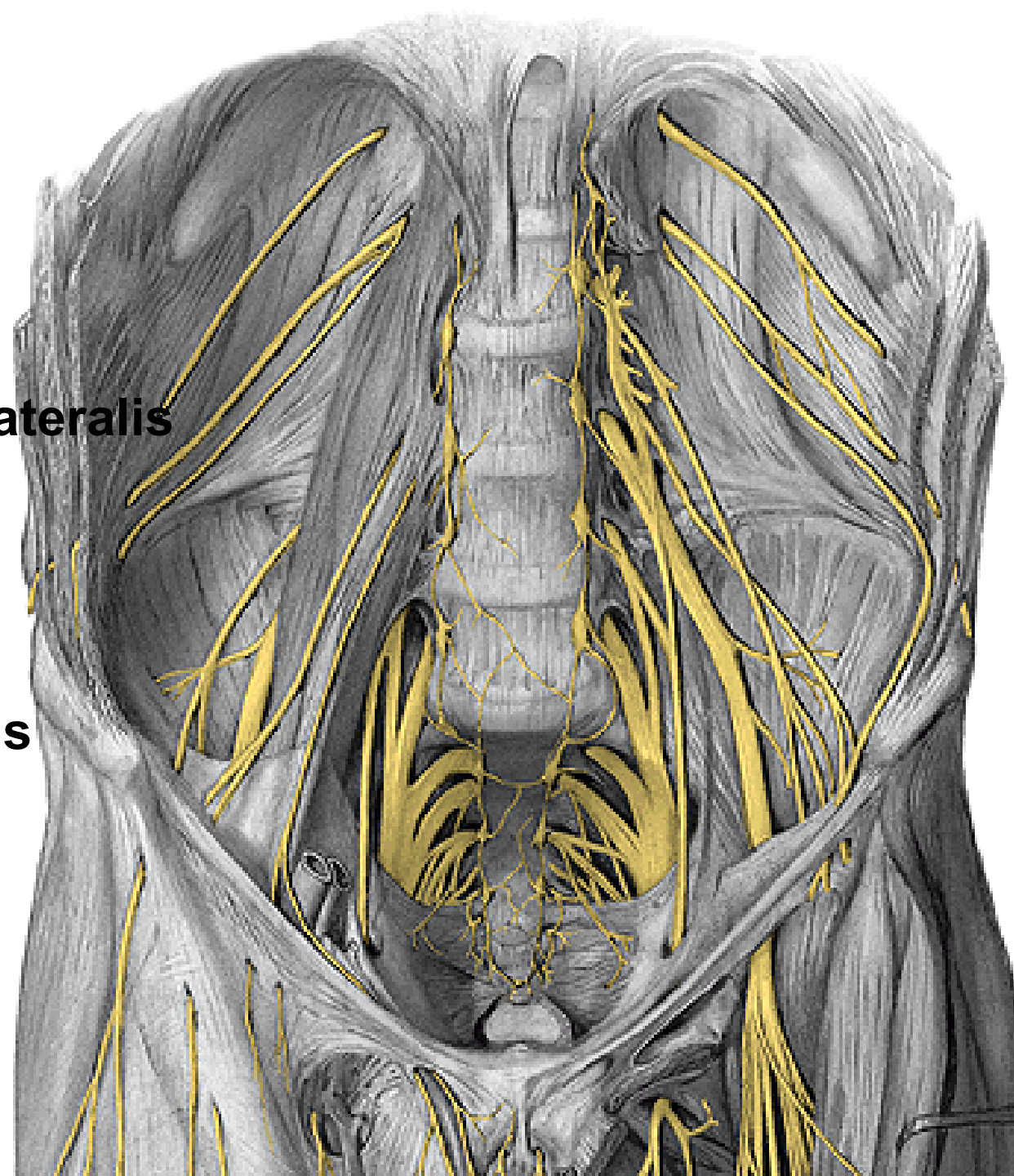
N. genitofemoralis

N. cutaneus femoris lateralis

N. femoralis

N. obturatorius

Truncus lumbosacralis

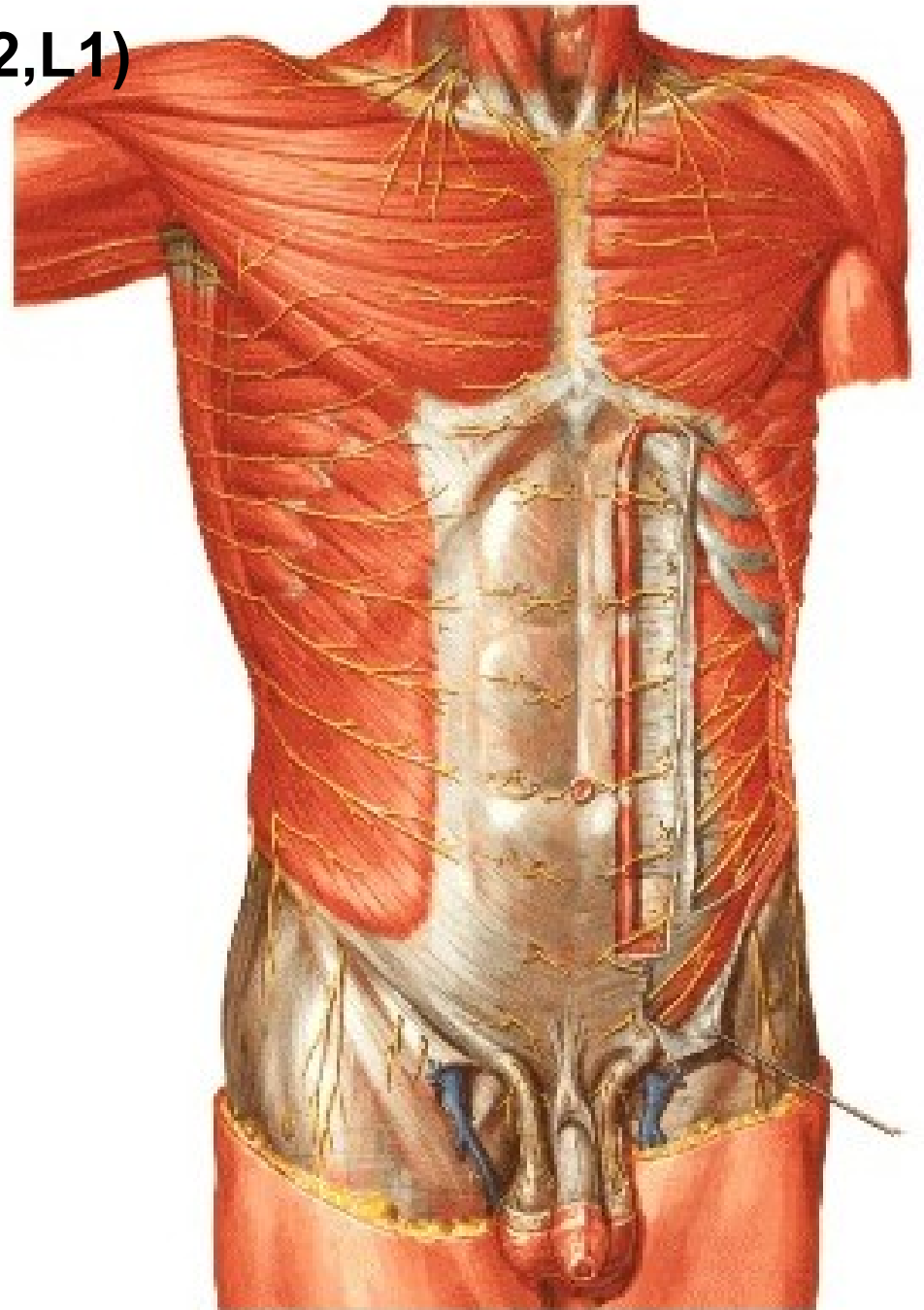


## **N. ILIOHYPOGASTRICUS (T12,L1)**

- rr. musculares
- r. cutaneus lateralis
- r. cutaneus medialis

## **N. ILIOINGUINALIS (L1)**

- rr. scrotales (labiales)



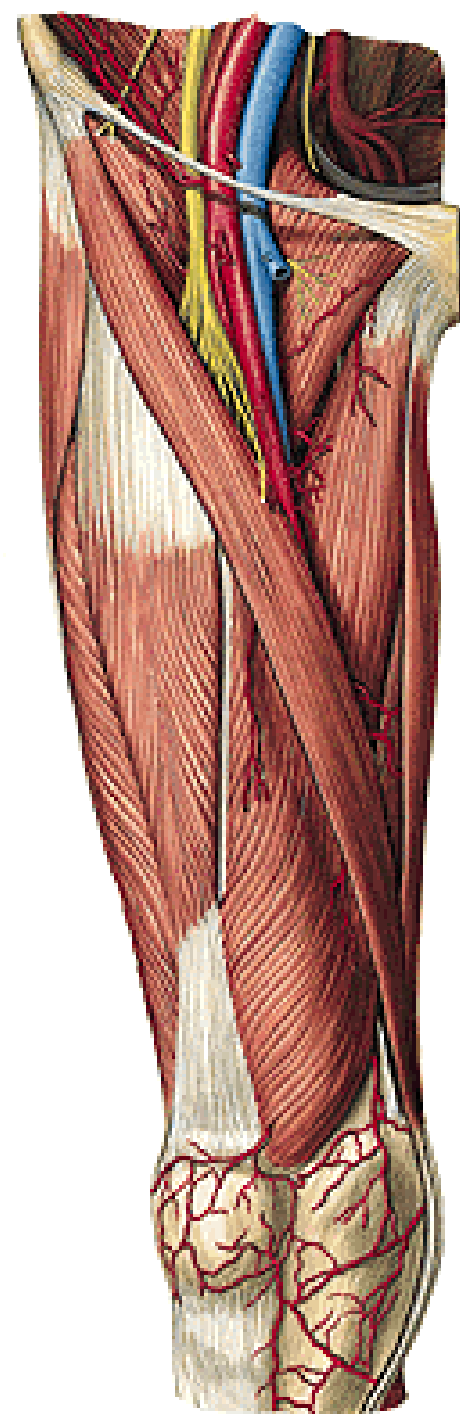
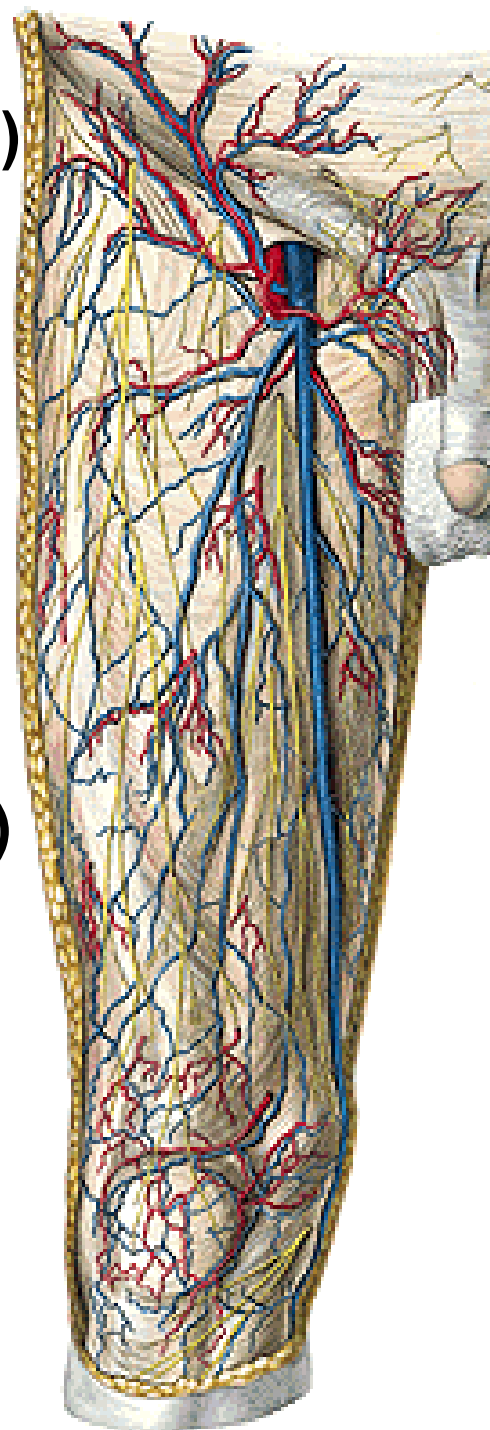
## **N. GENITOFEMORALIS (L1,L2)**

- r. genitalis
- r. femoralis

## **N. CUTANEUS FEMORIS LATERALIS (L2,L3)**

## **N. FEMORALIS**

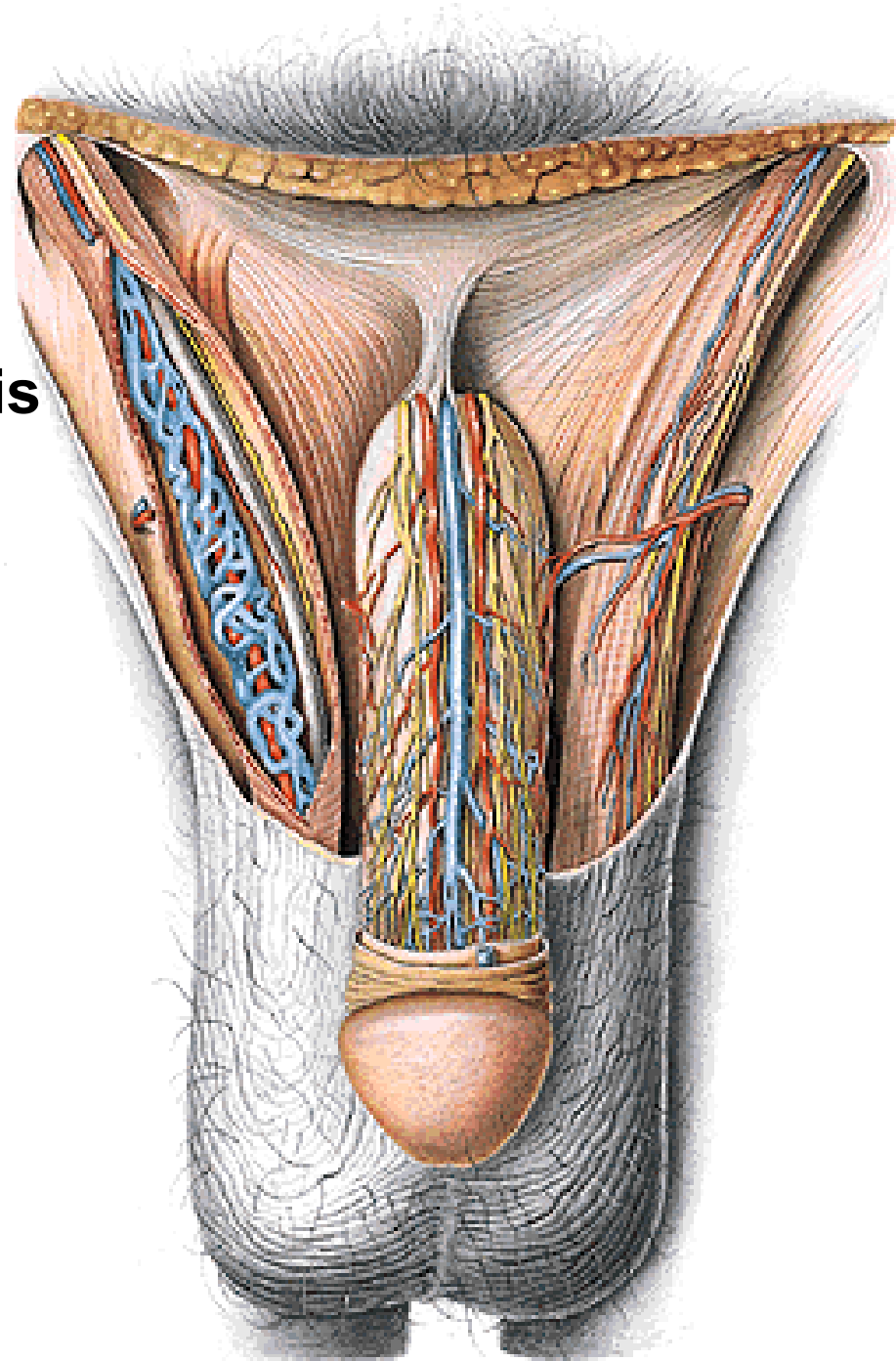
- rr. cutanei anteriores (L2-L4)



**Canalis inguinalis**

**N. ilioinguinalis**

**R. genitalis n. genitofemoralis**

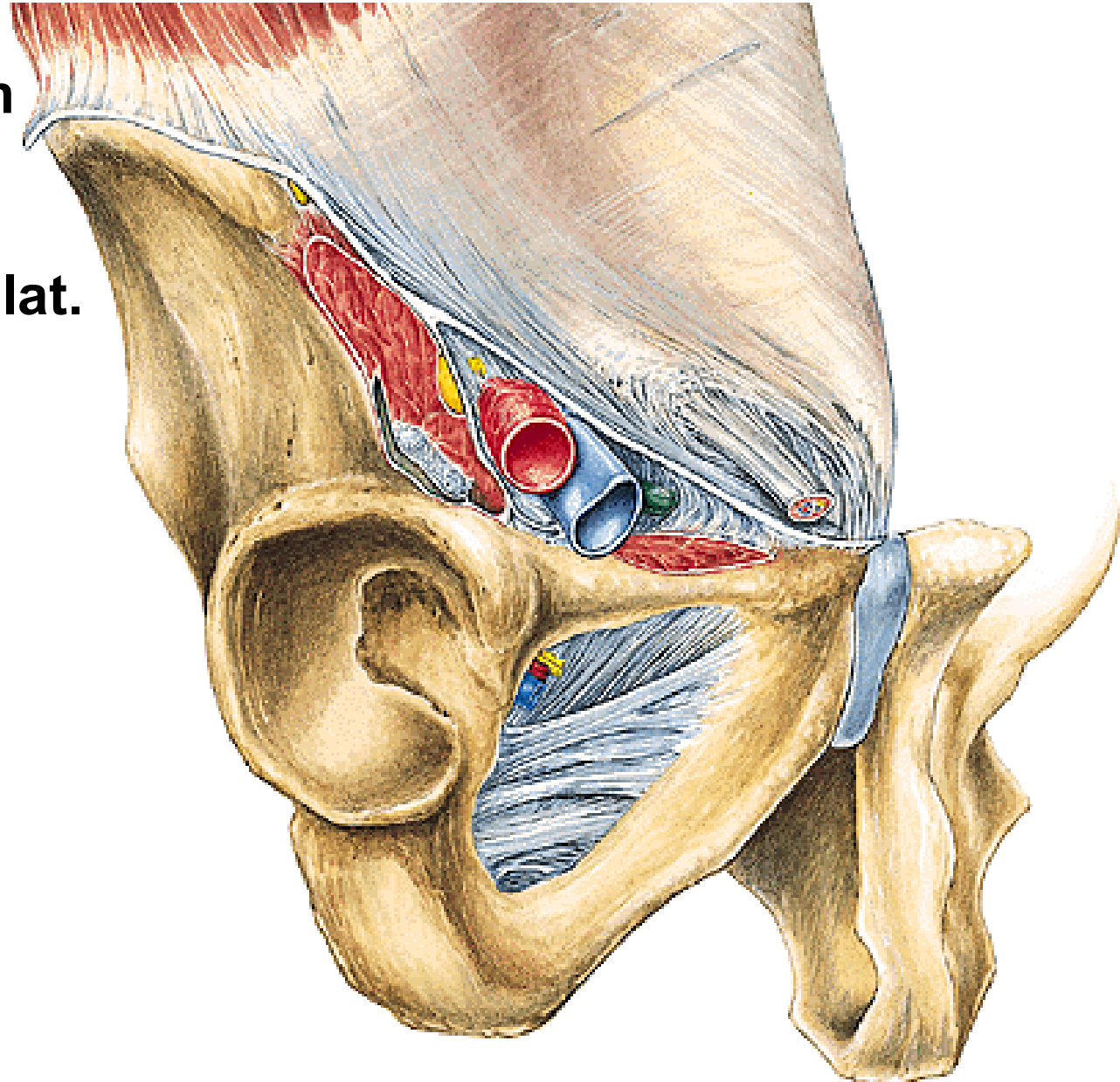




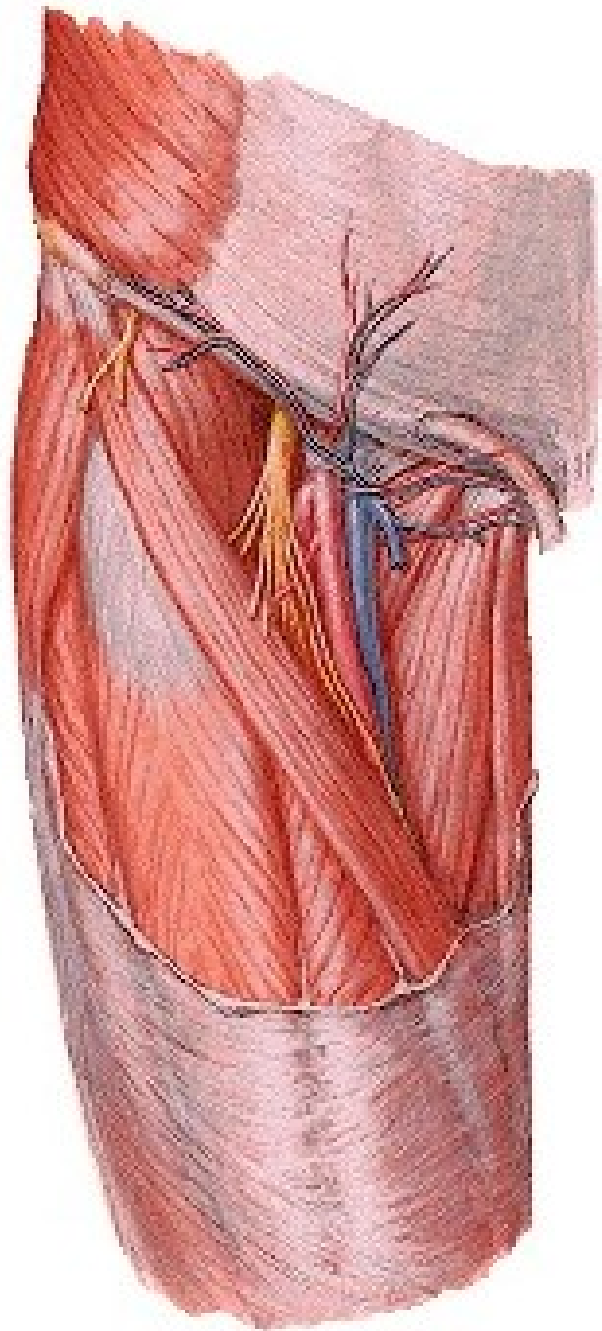
**Lacuna musculorum**

**N. femoralis**

**N.cutaneus femoris lat.**

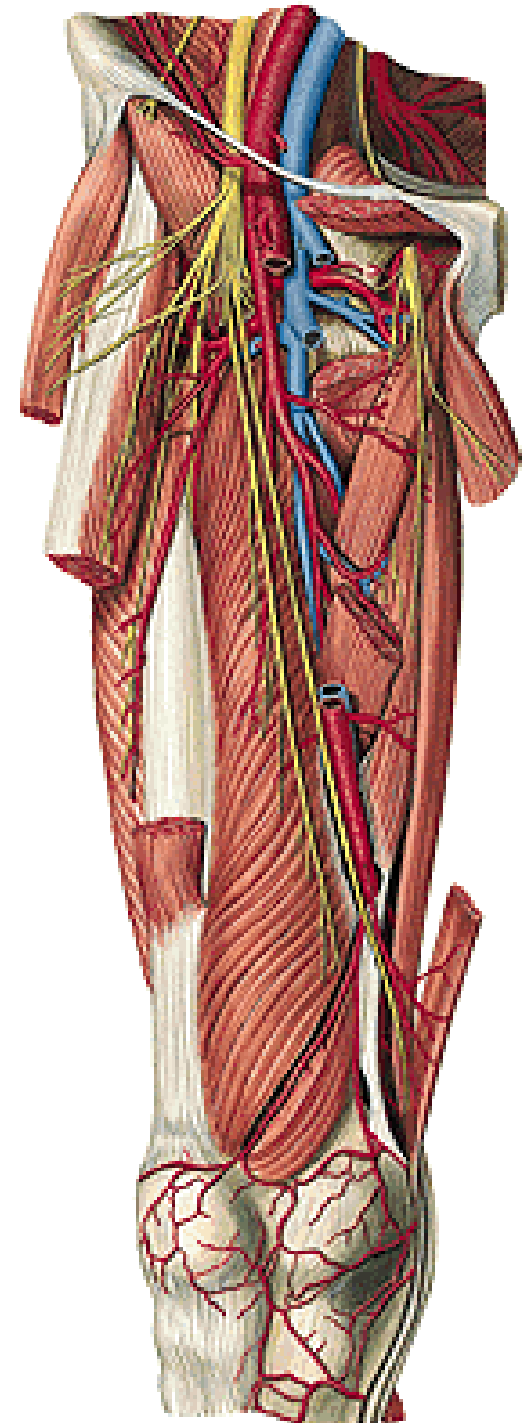
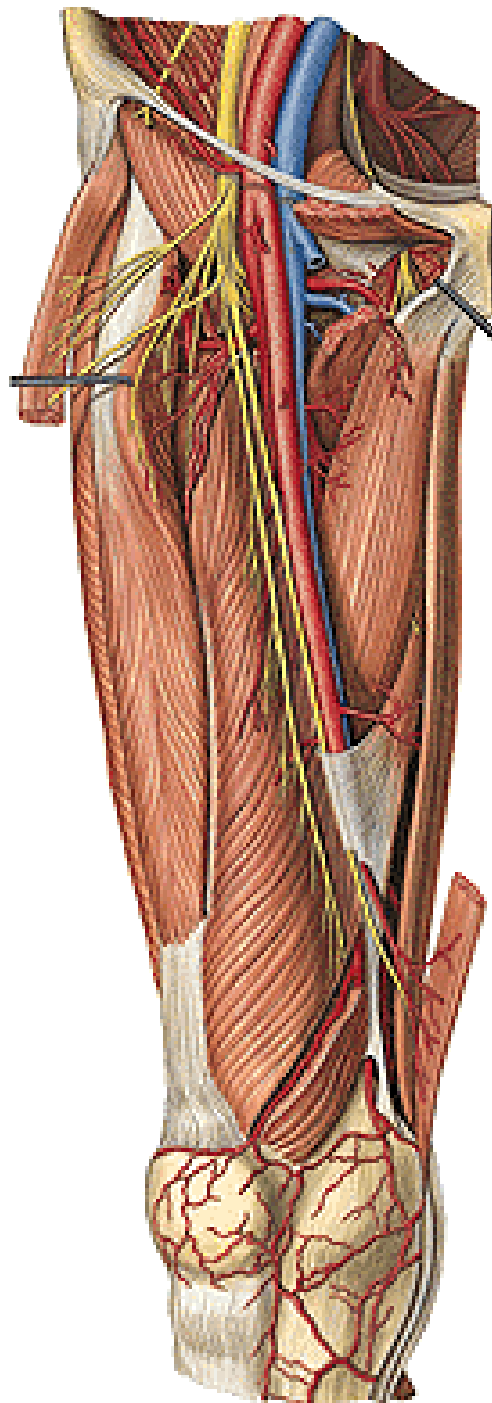


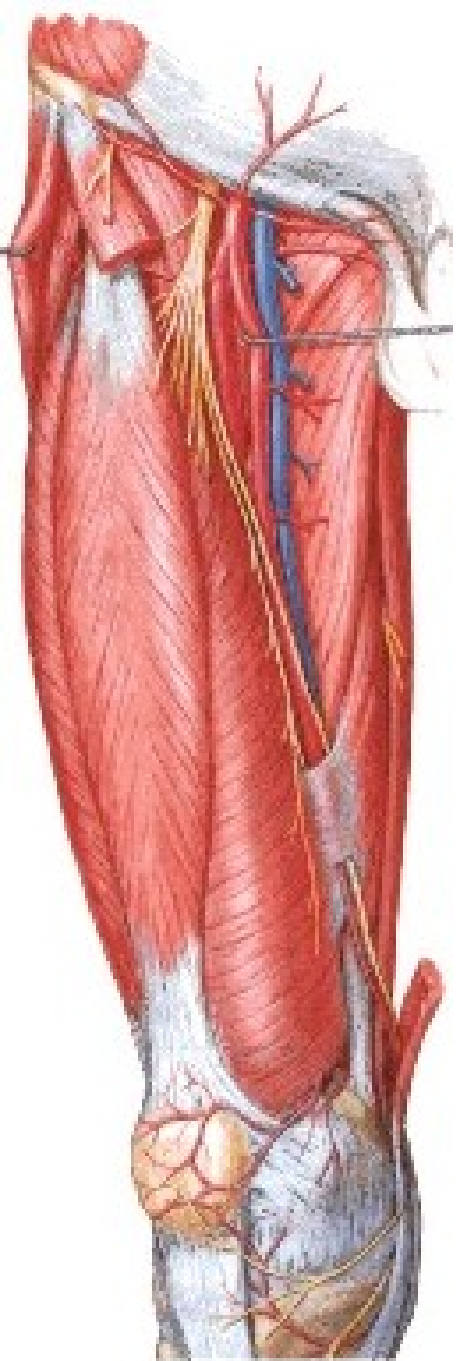




# N. FEMORALIS

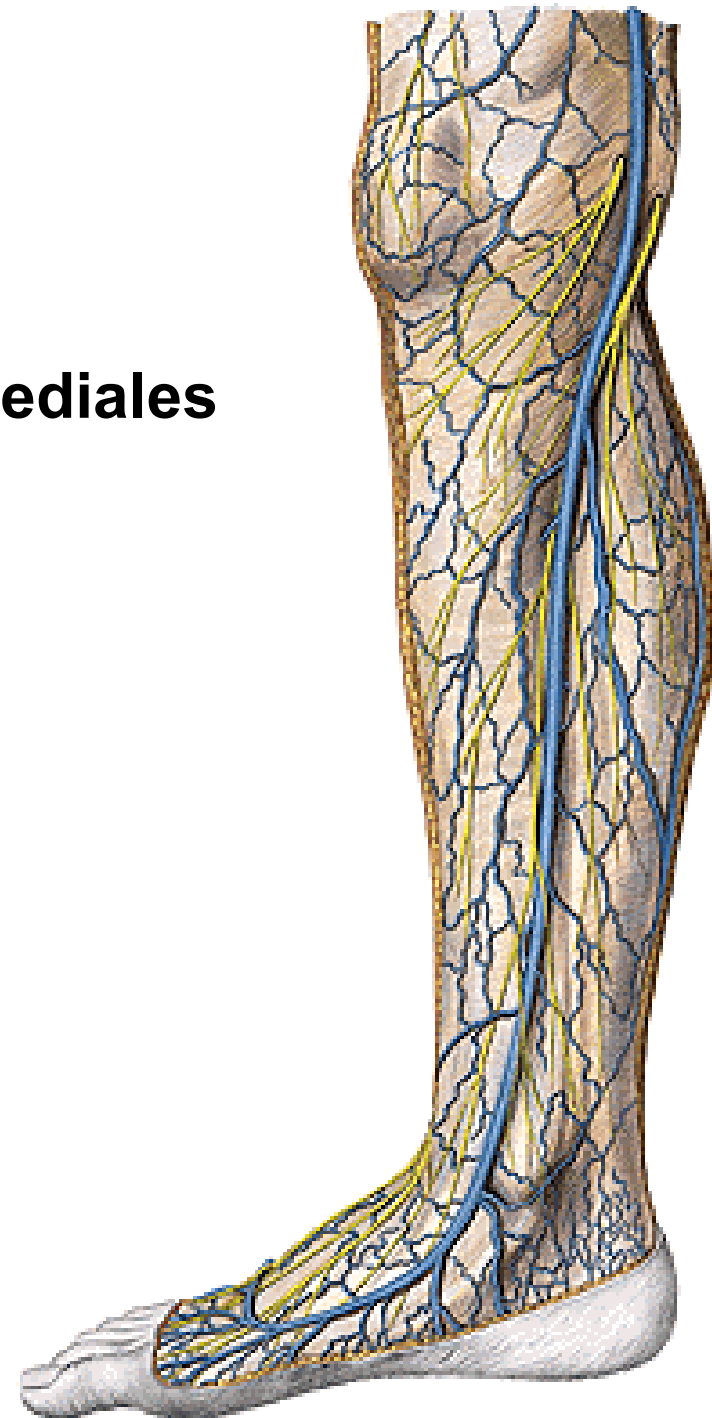
- rr. musculares
- n. saphenus





## **N. saphenus**

- r. infrapatellaris
- rr. cutanei cruris mediales

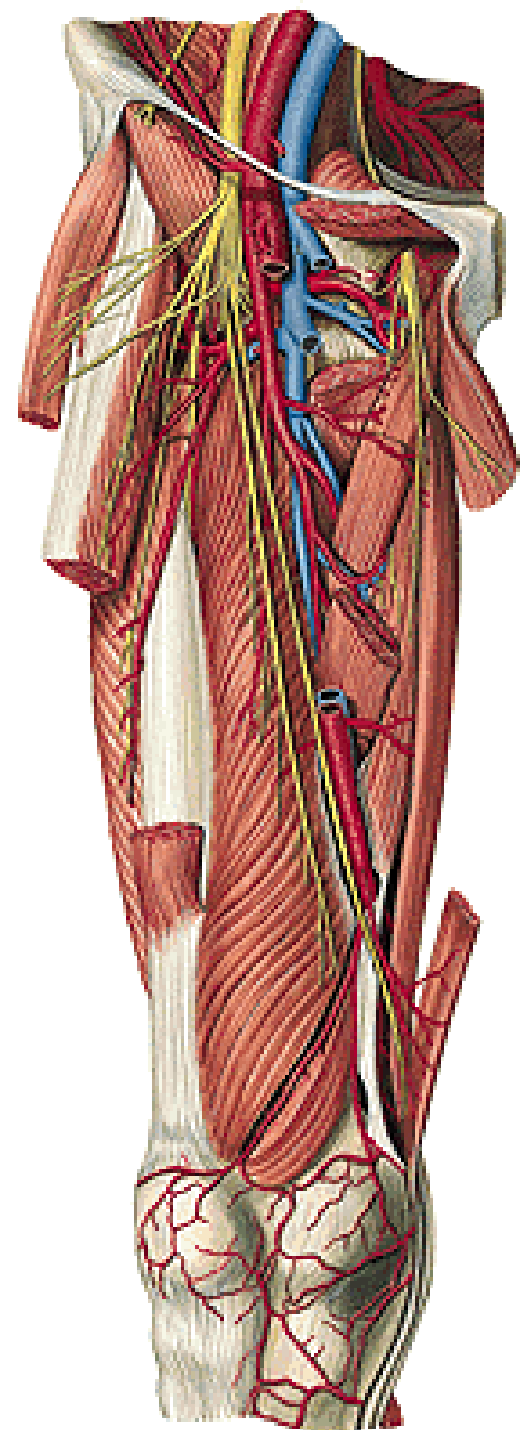
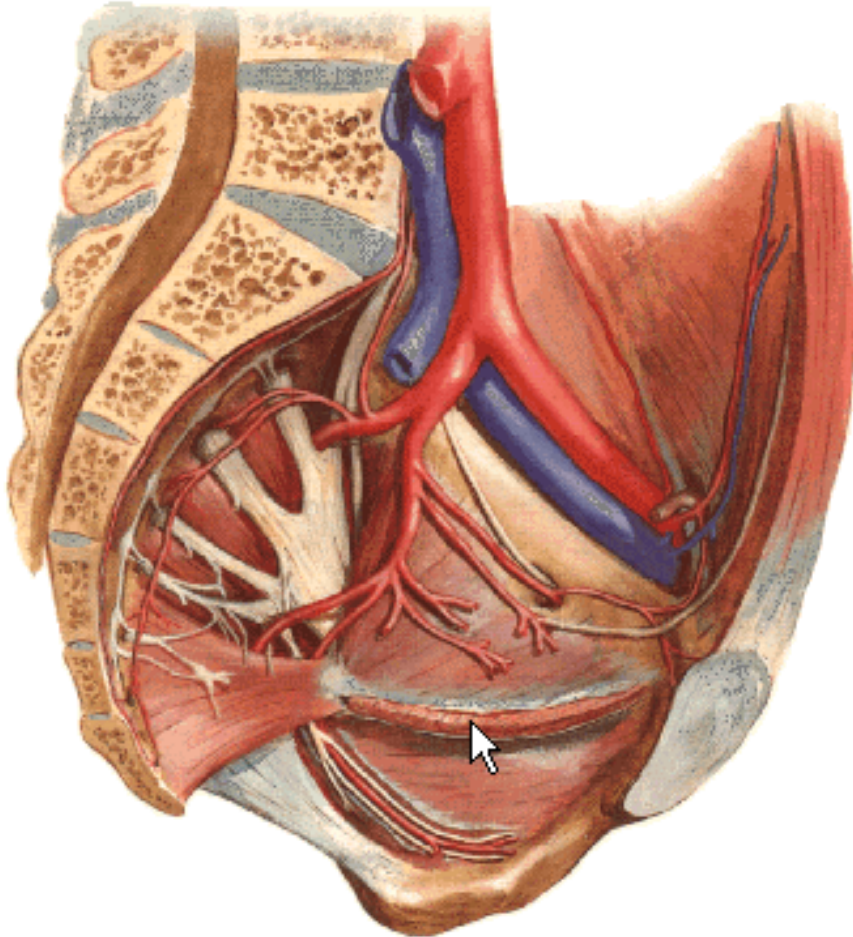


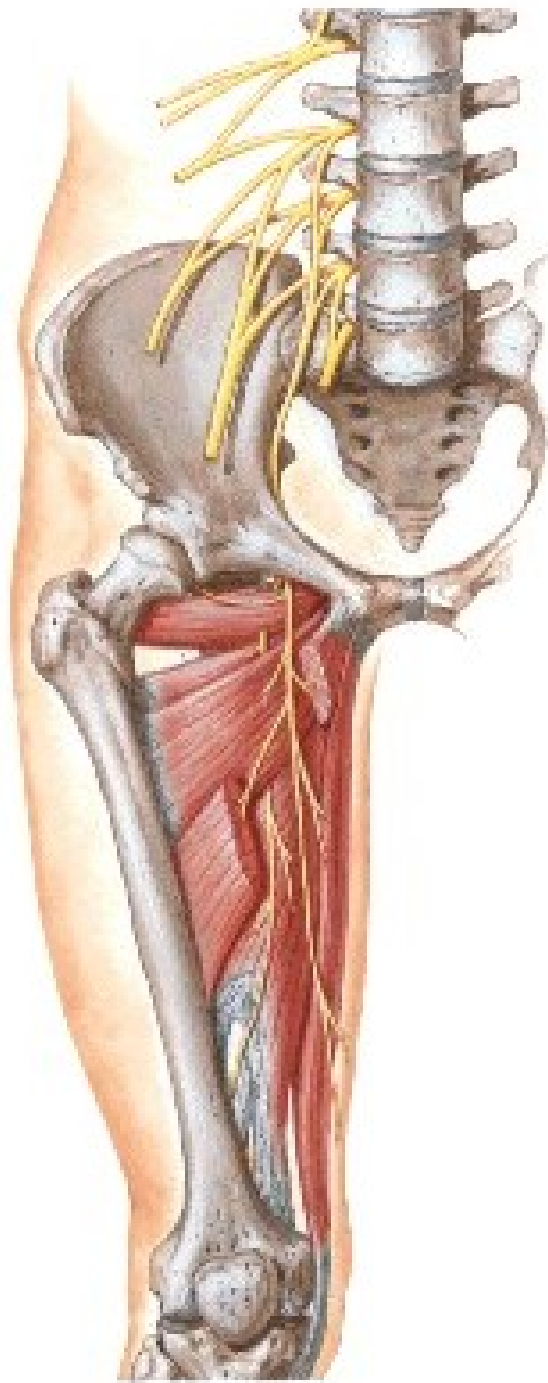
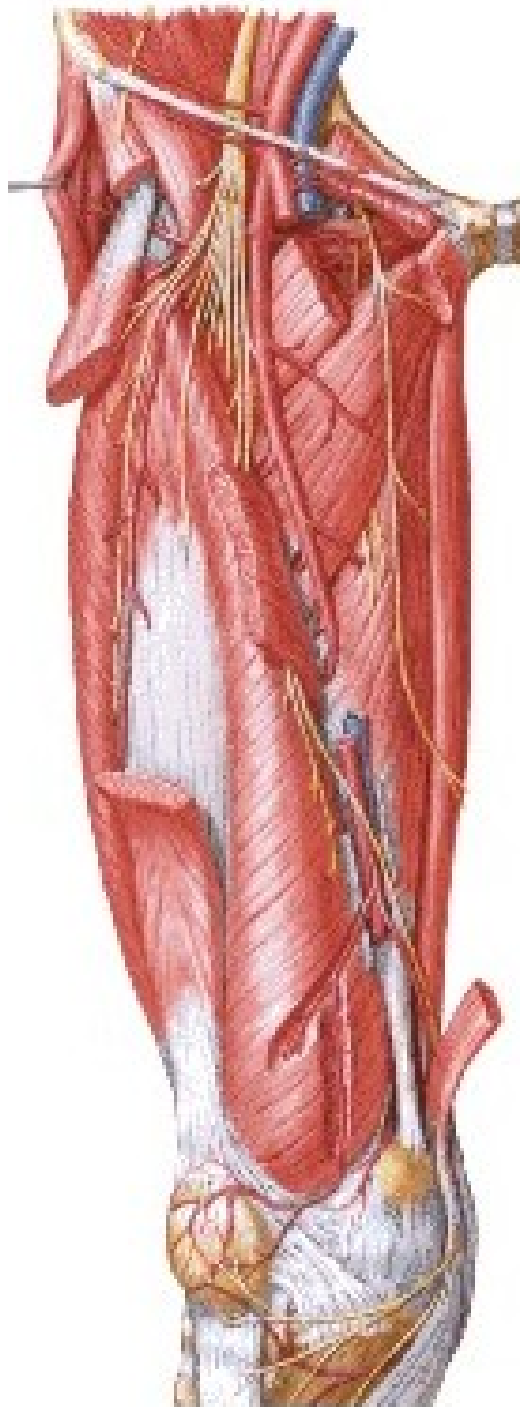


**N. cutaneus femoris lat.**  
**N. femoralis**

# N. OBTURATORIUS (L2-L4)

- r. anterior – r. cutaneus
- r. posterior – r. articularis



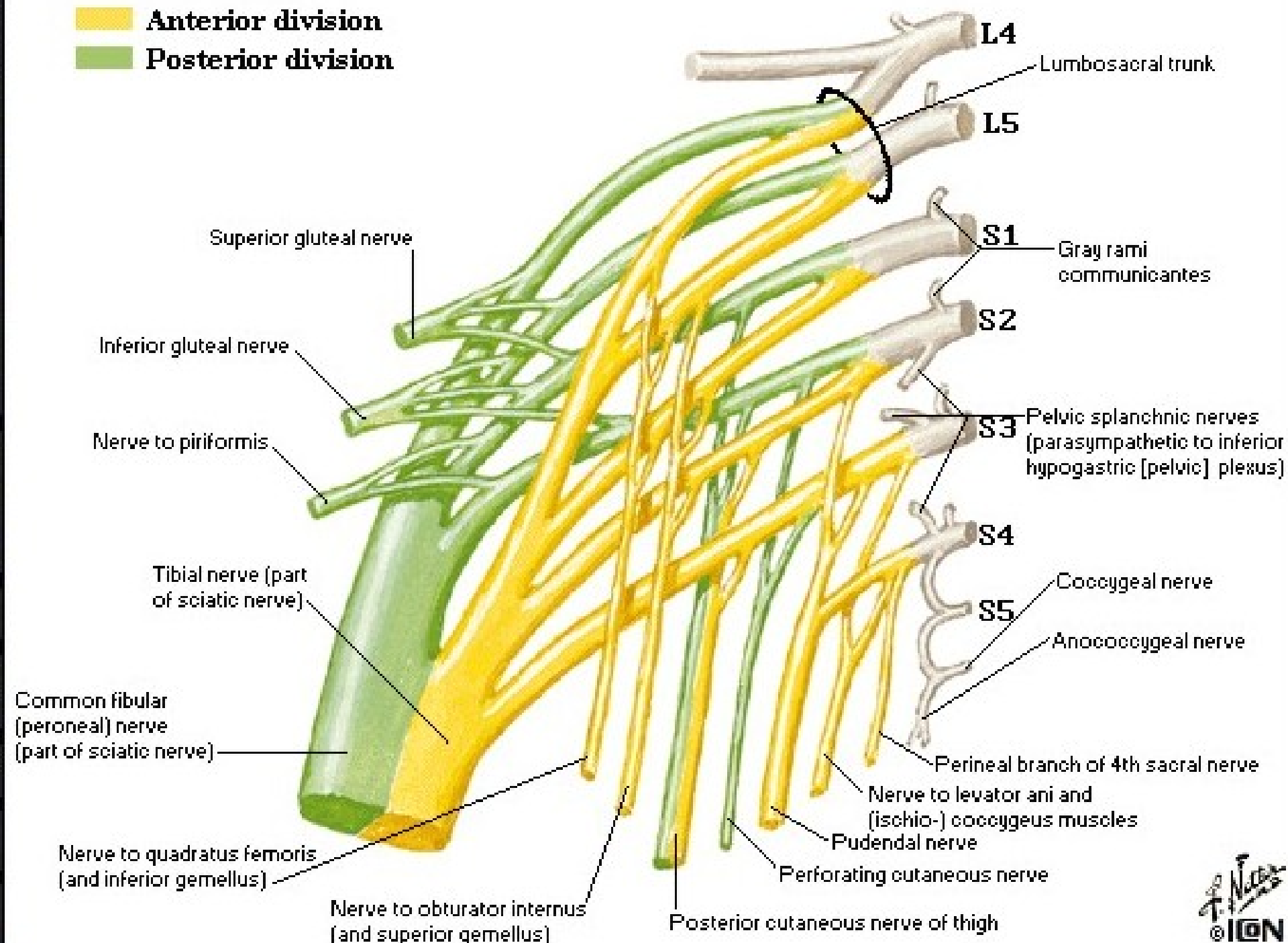


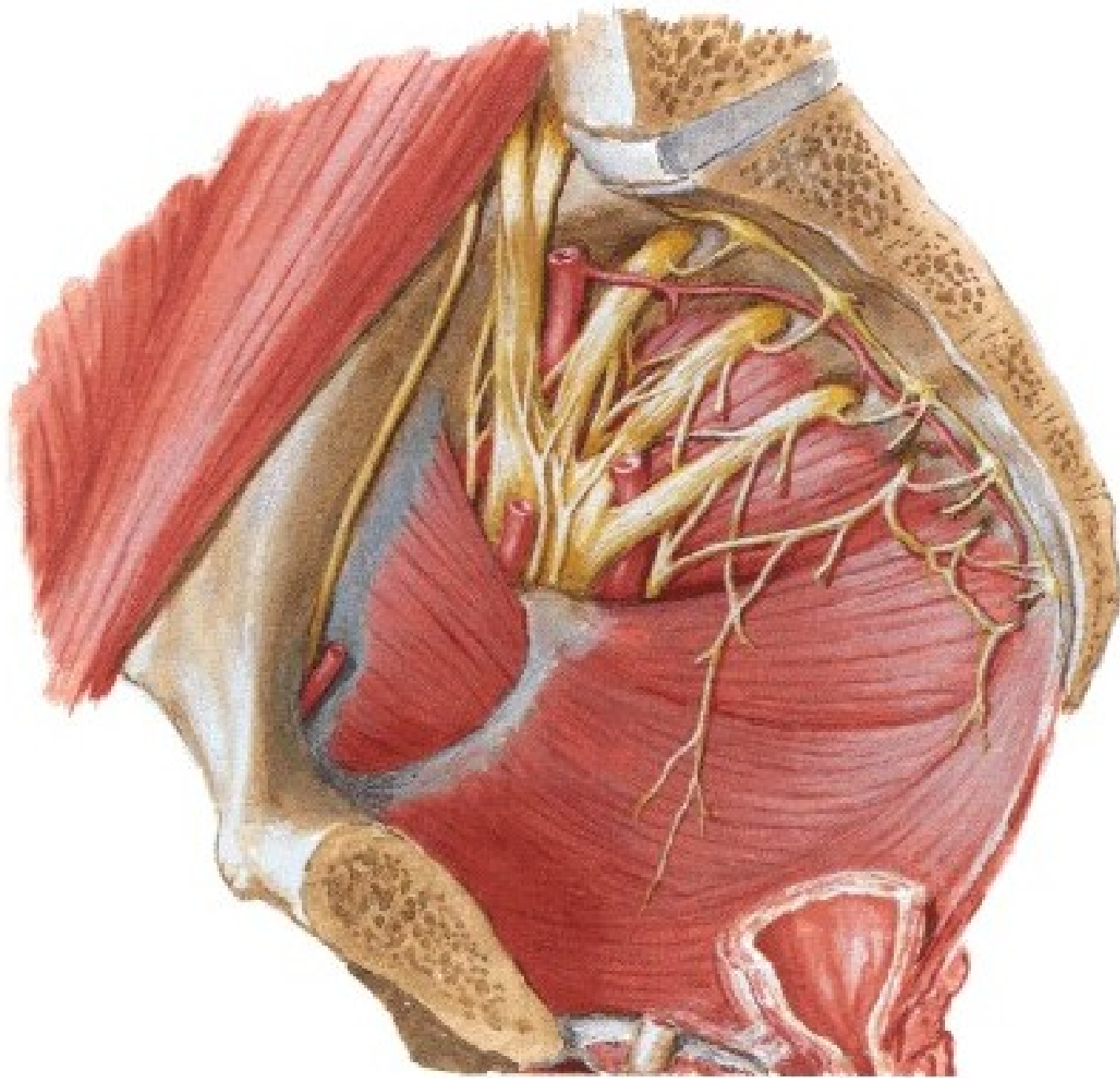


# **PLEXUS SACRALIS (L4 – Co1)**

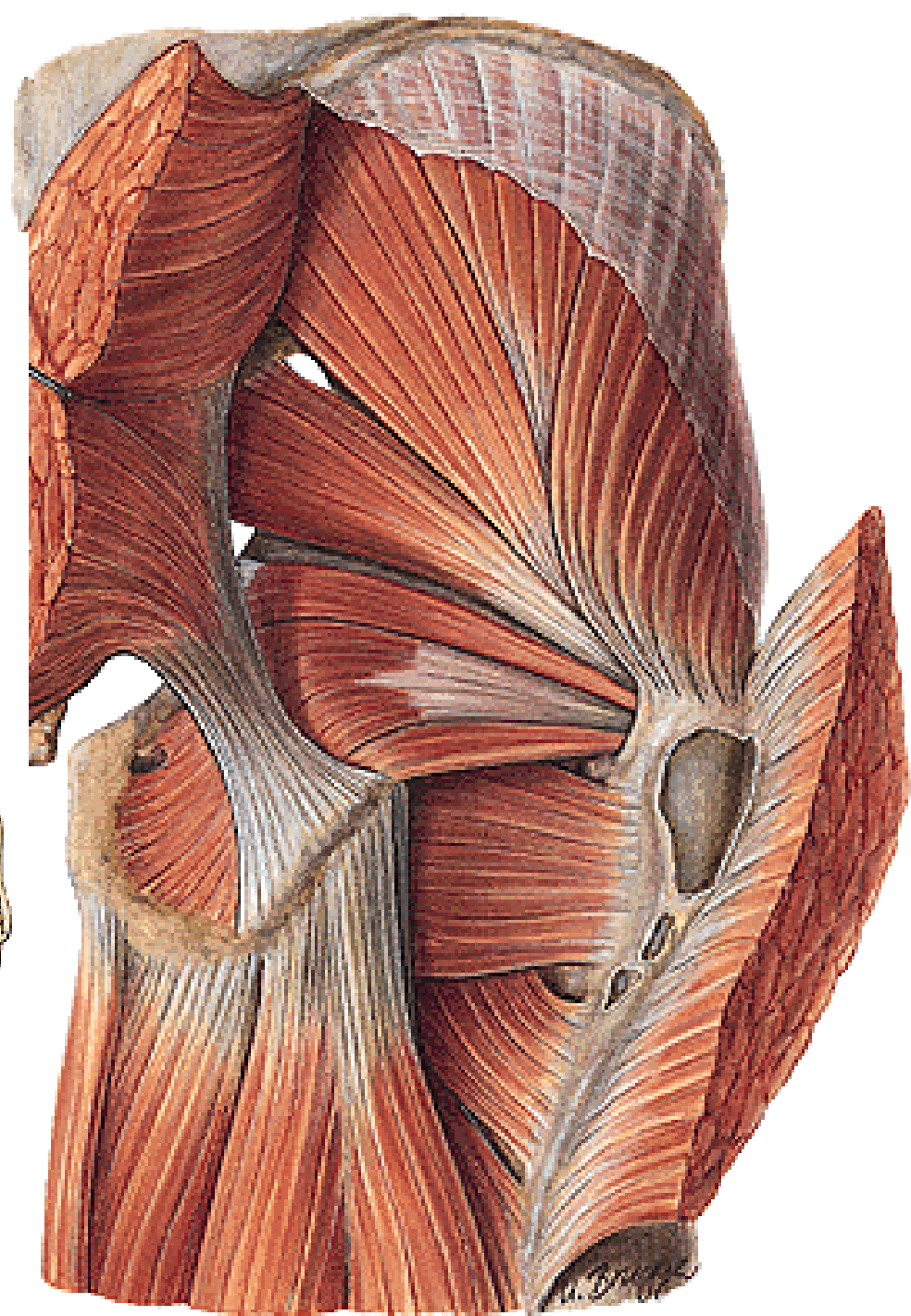
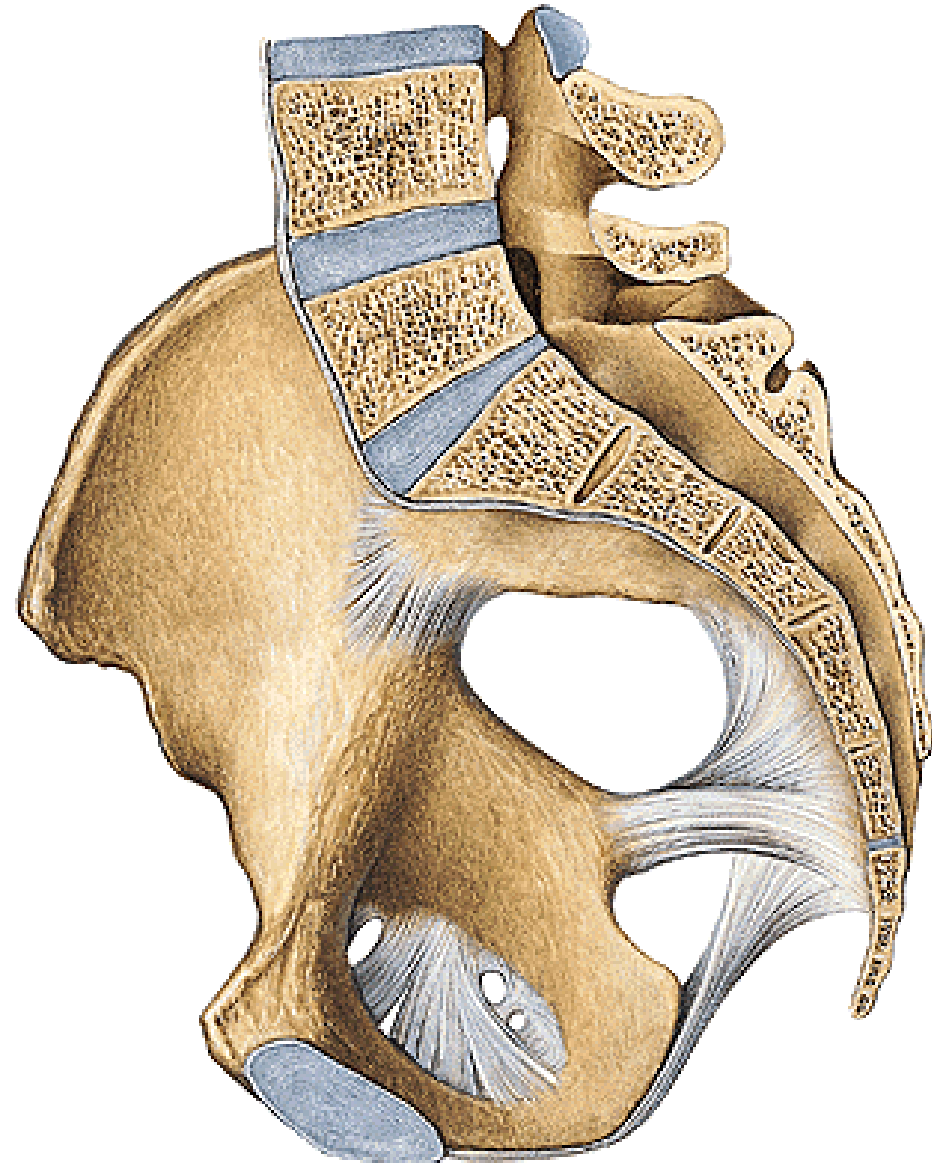


- Anterior division
- Posterior division

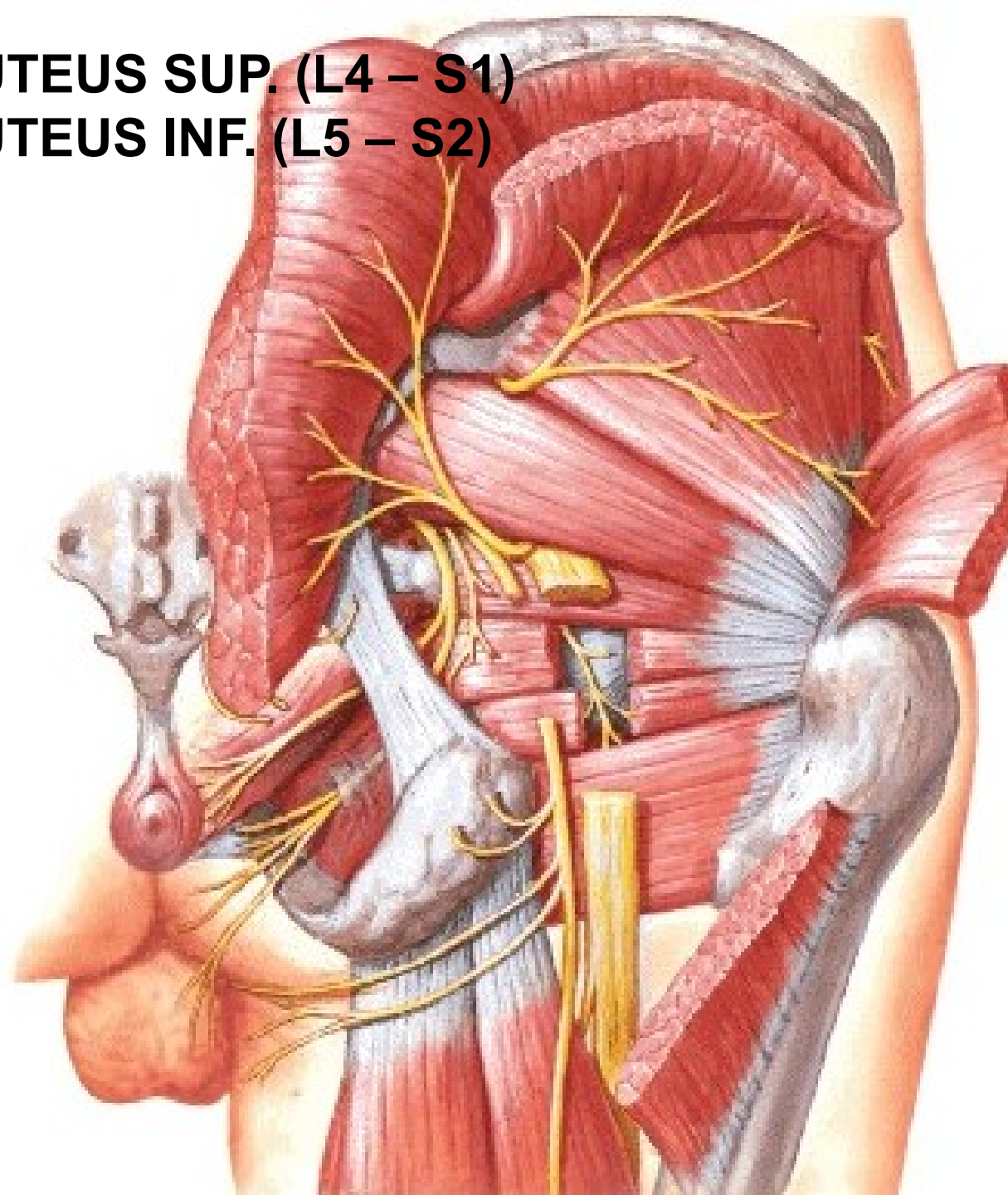
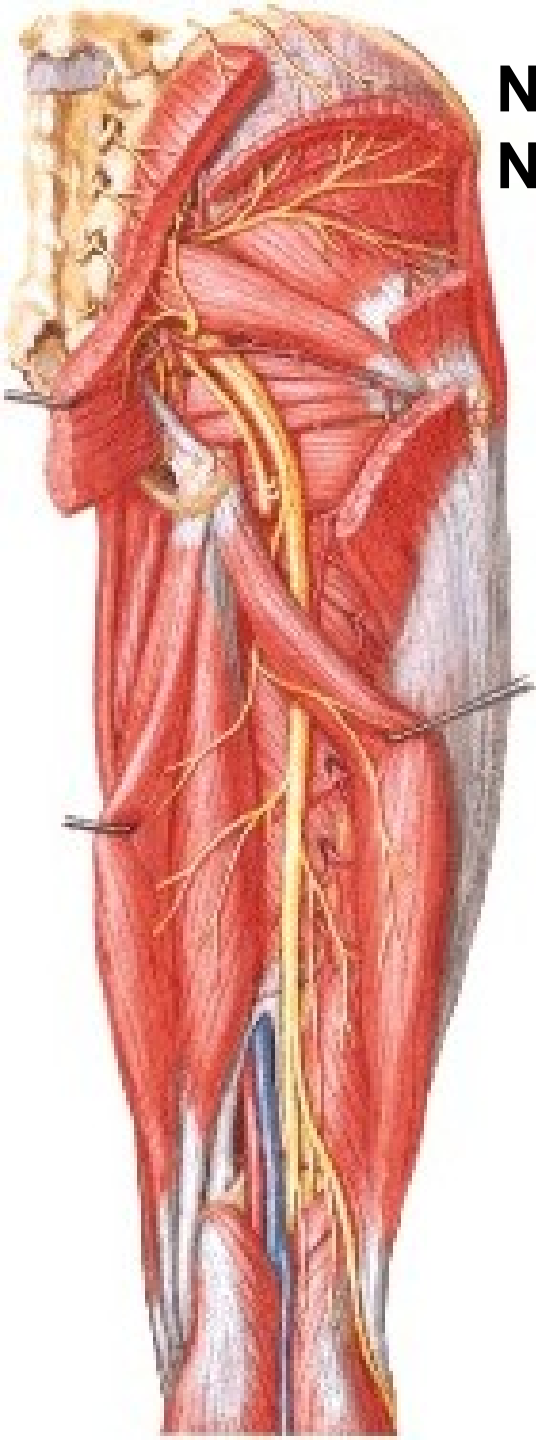




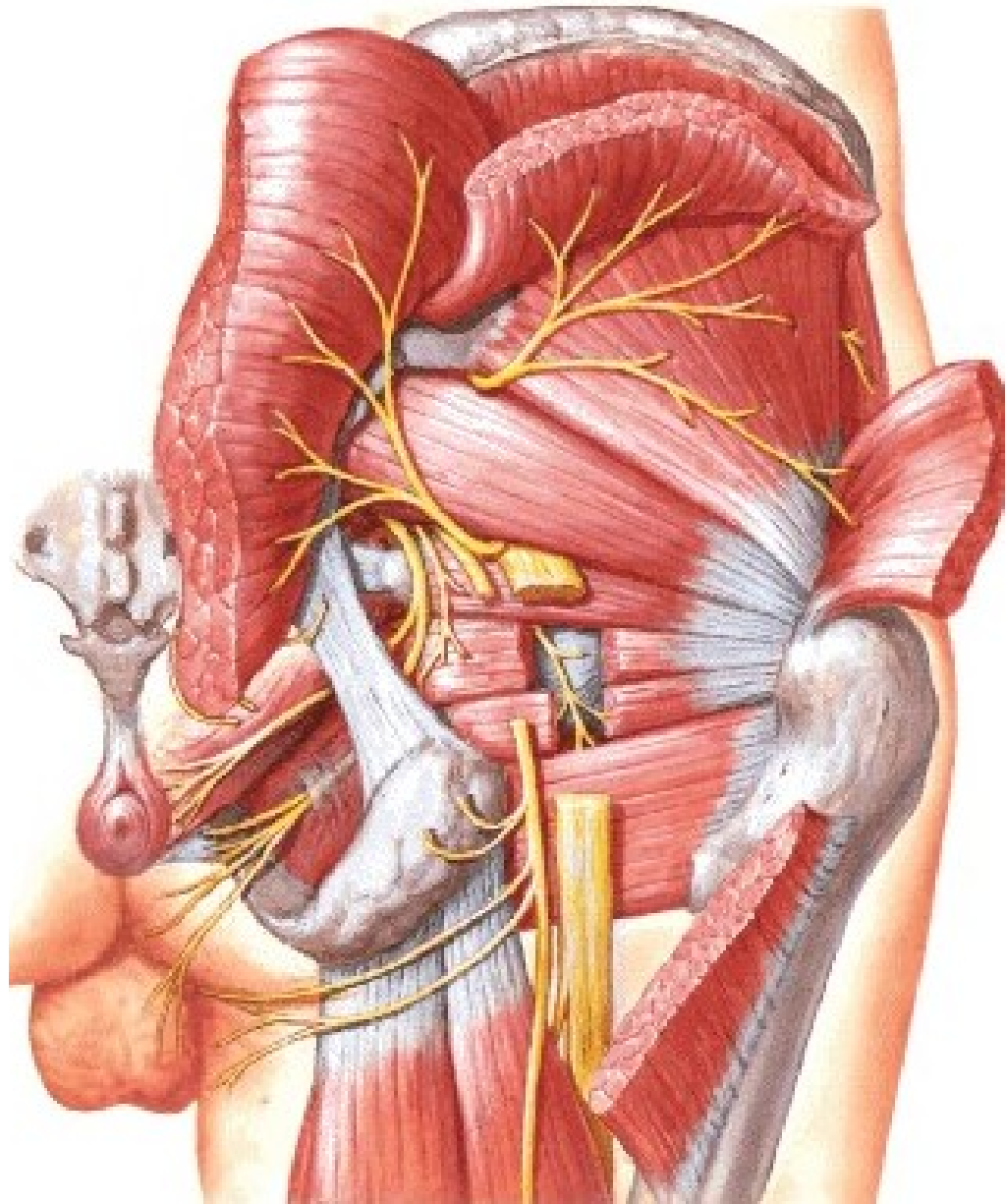
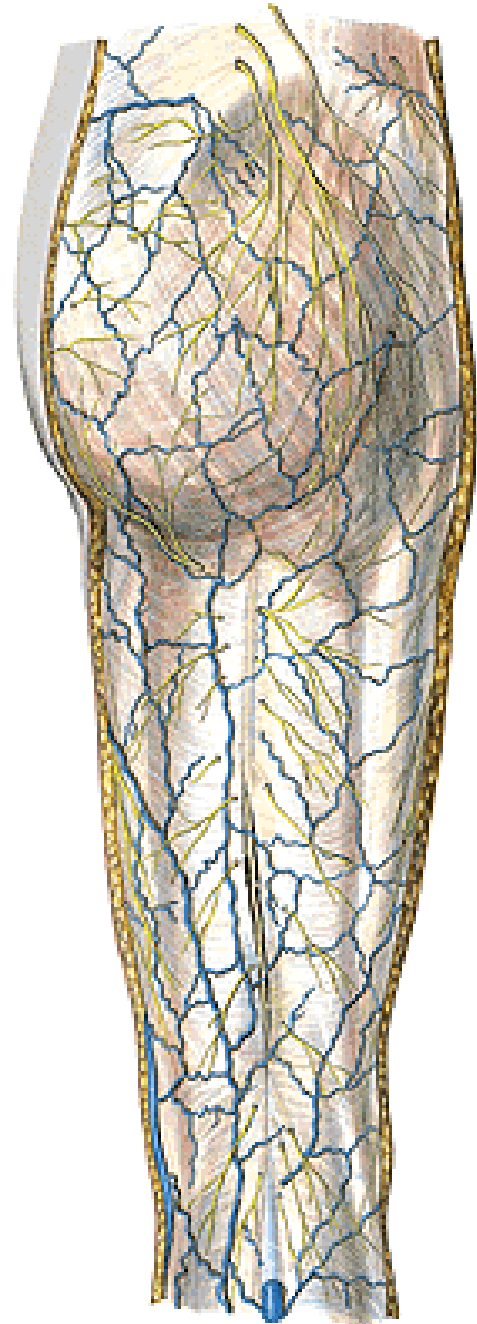
**Foramen suprapiriforme**  
**Foramen infrapiriforme**



**N. GLUTEUS SUP. (L4 – S1)**  
**N. GLUTEUS INF. (L5 – S2)**

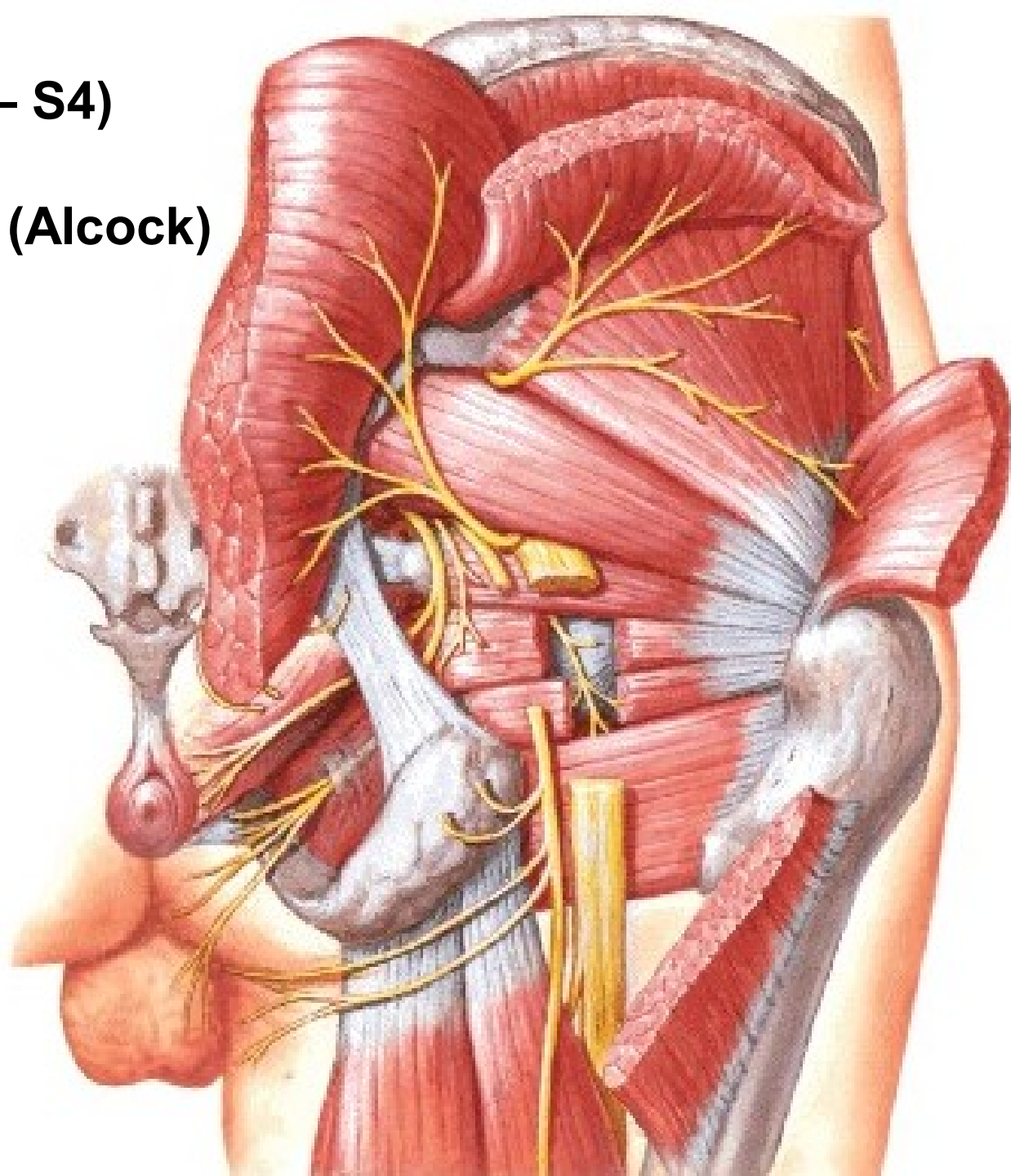


**N. CUTANEUS FEMORIS POST. (S1 – S3) – rr. perineales**  
**- nn. clunium inferiores**



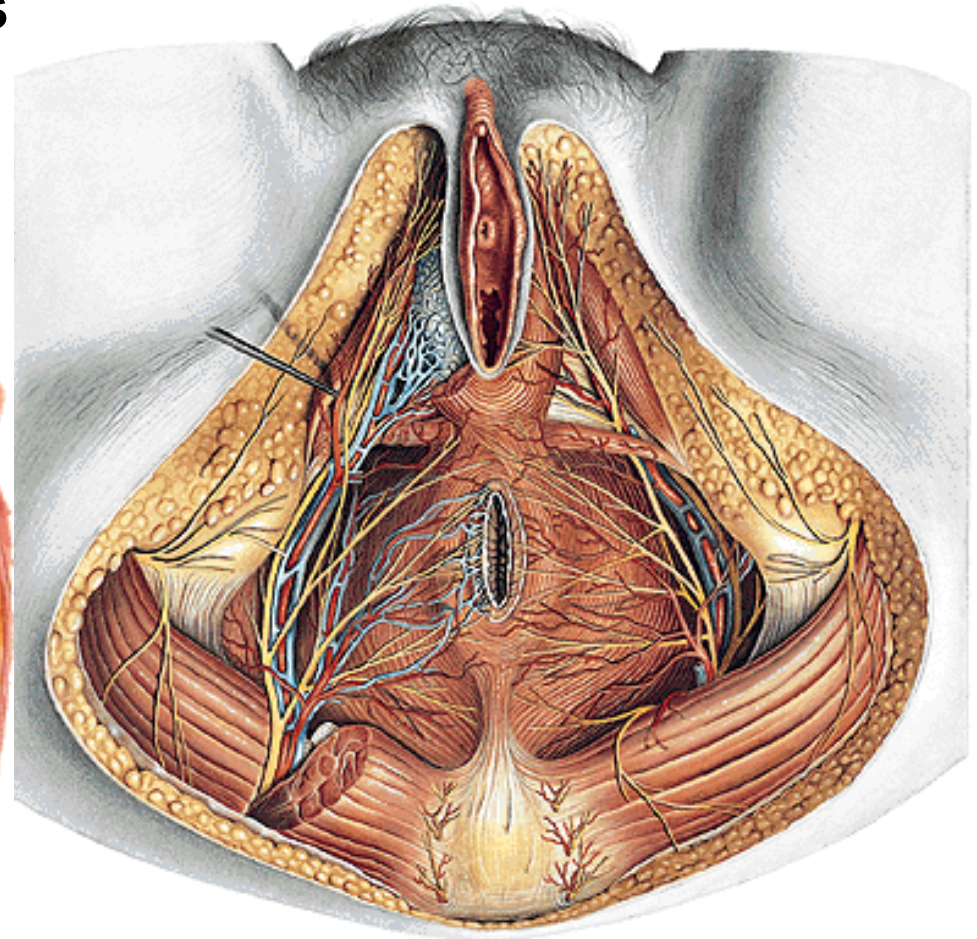
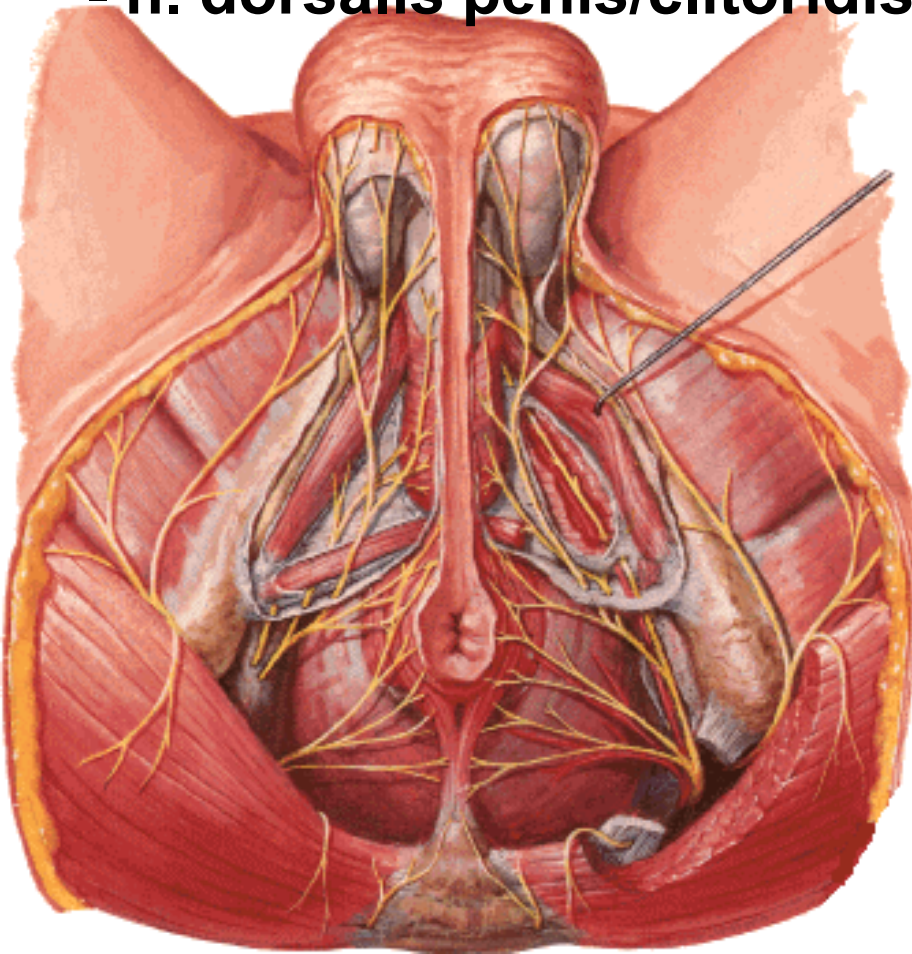
**N. PUDENDUS (S2 – S4)**

**Canalis pudendalis (Alcock)**

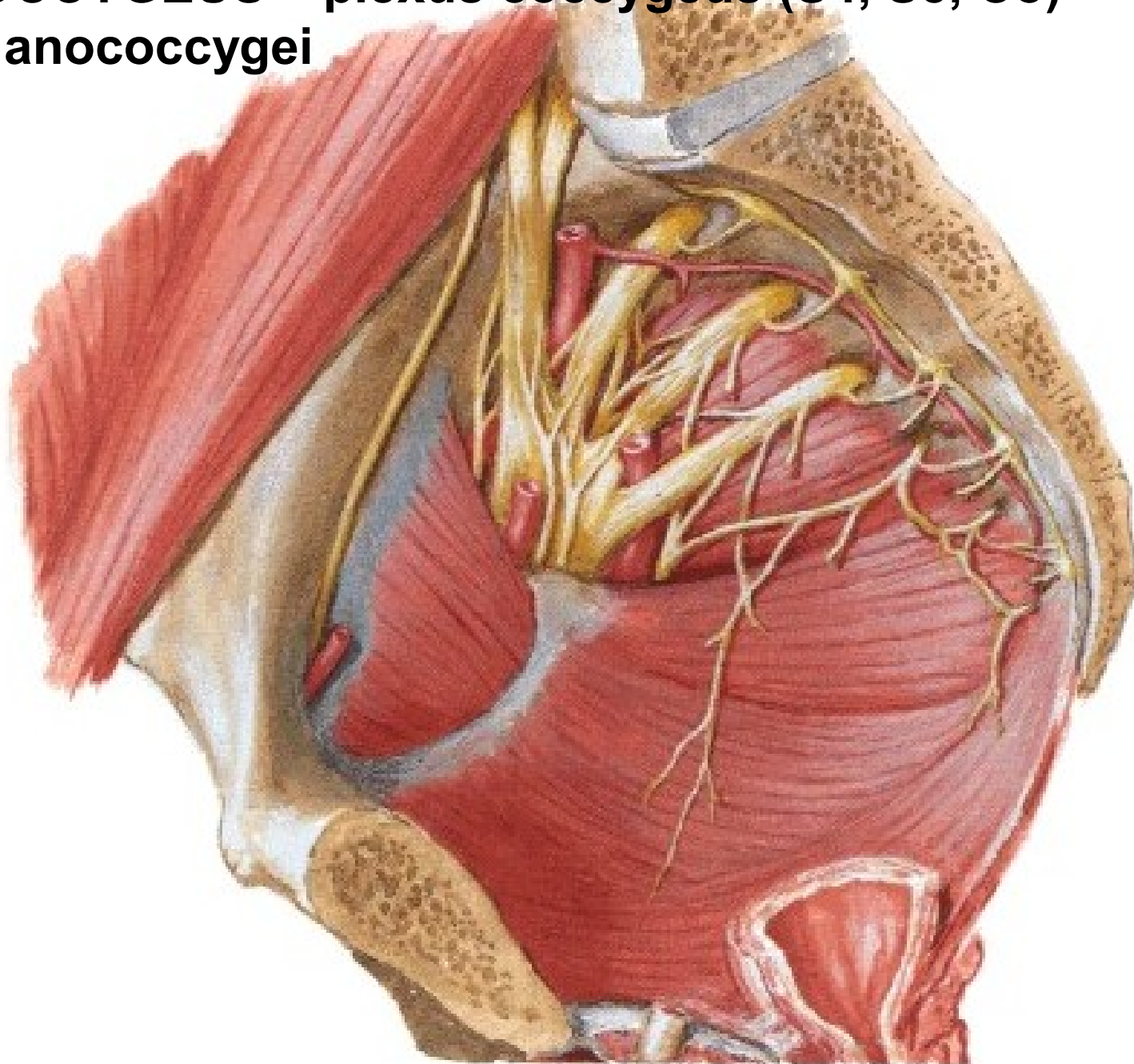


# **N. PUDENDUS**

- nn. rectales inf.
- n. perinealis
  - n. perinealis spf. – rr. scrotales/labiales posteriores
  - n. perinealis prof.
- n. dorsalis penis/clitoridis

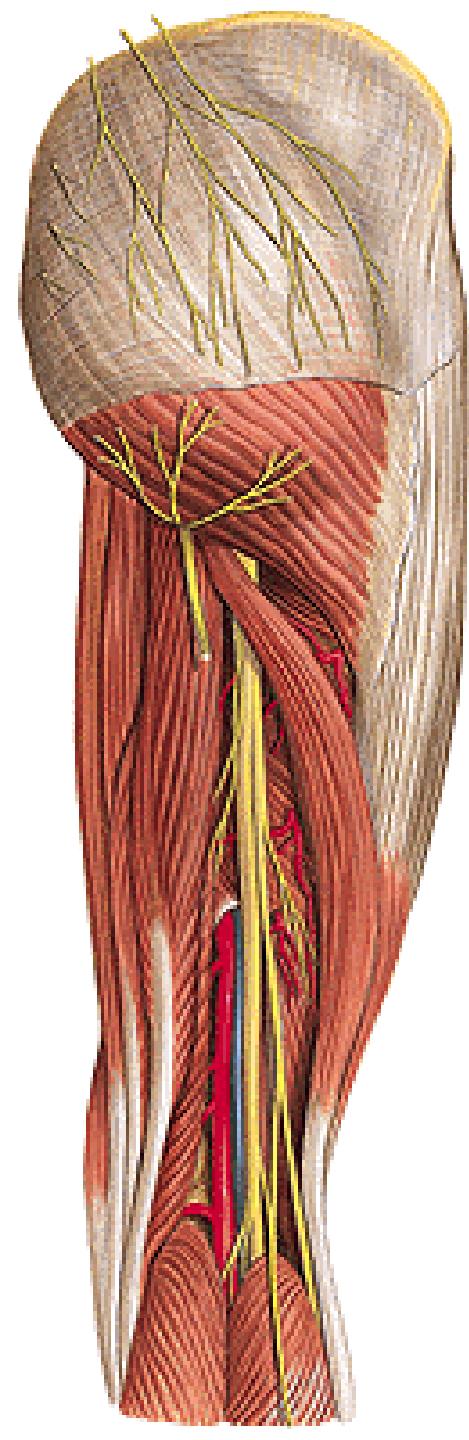
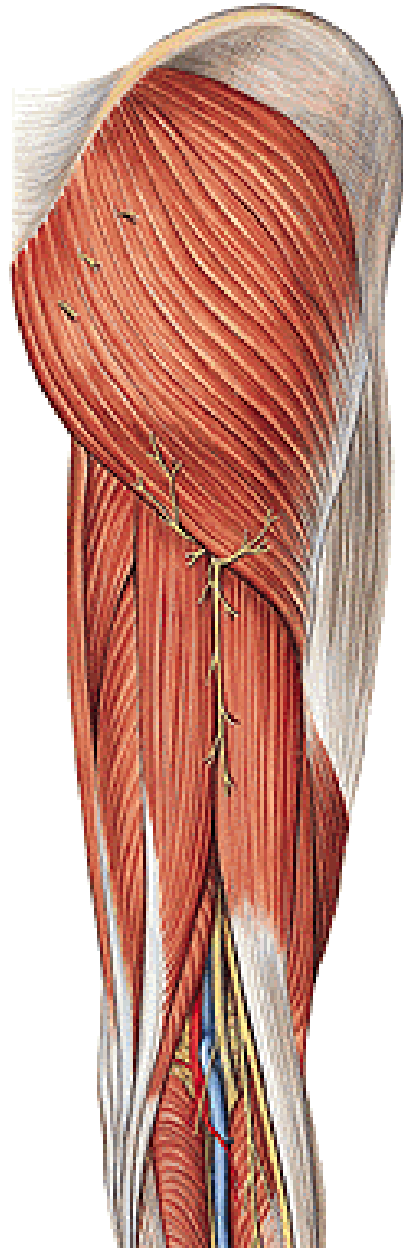
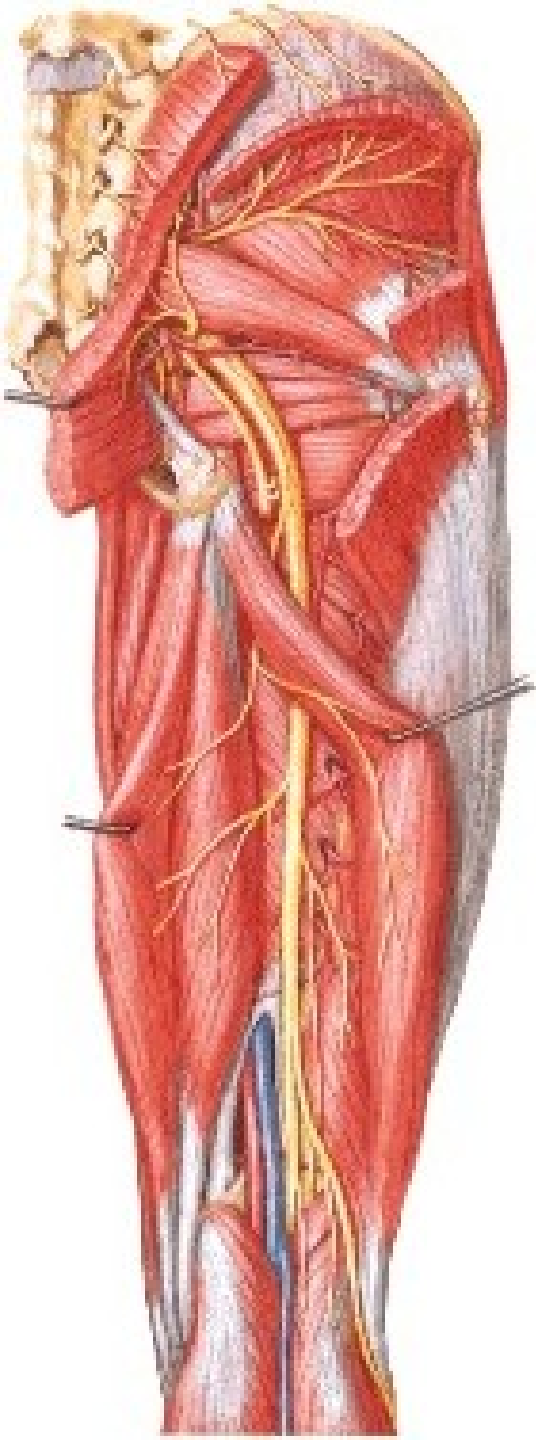


**N. COCCYGEUS – plexus coccygeus (S4, S5, Co)**  
**– nn. anococcygei**





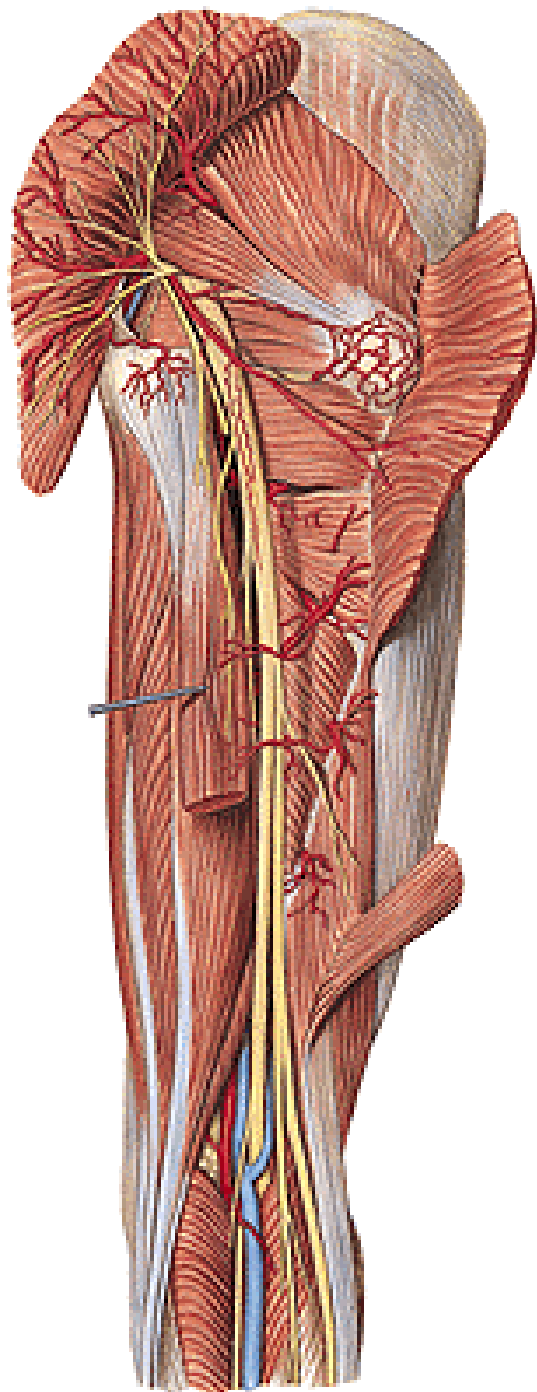
# N. ISCHIADICUS (L4 – S3)



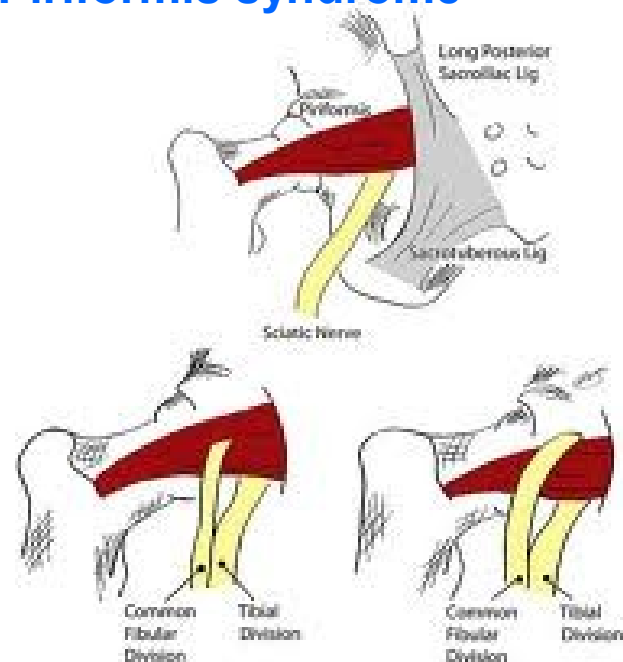
## A. comitans n. ischiadici

## N. ISCHIADICUS

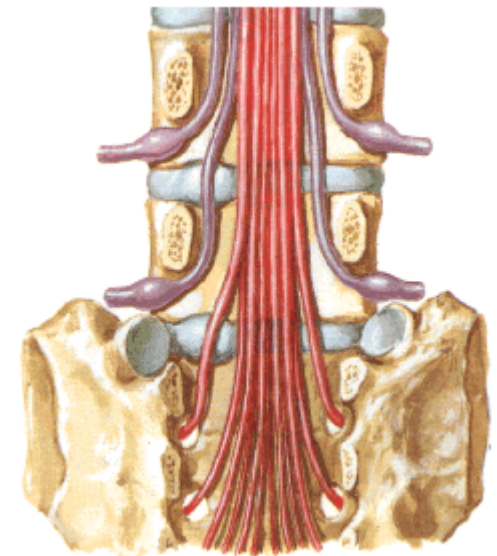
- rr. musculares
- rr. articulares
- n. tibialis
- n. fibularis/peroneus communis



### Piriformis syndrome

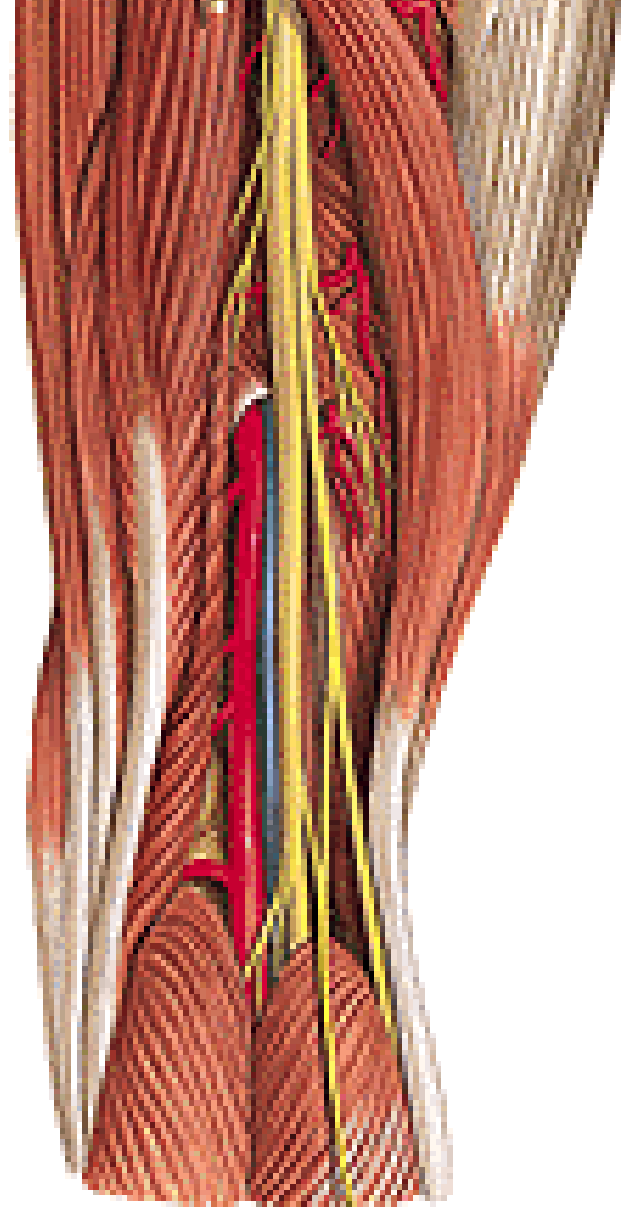
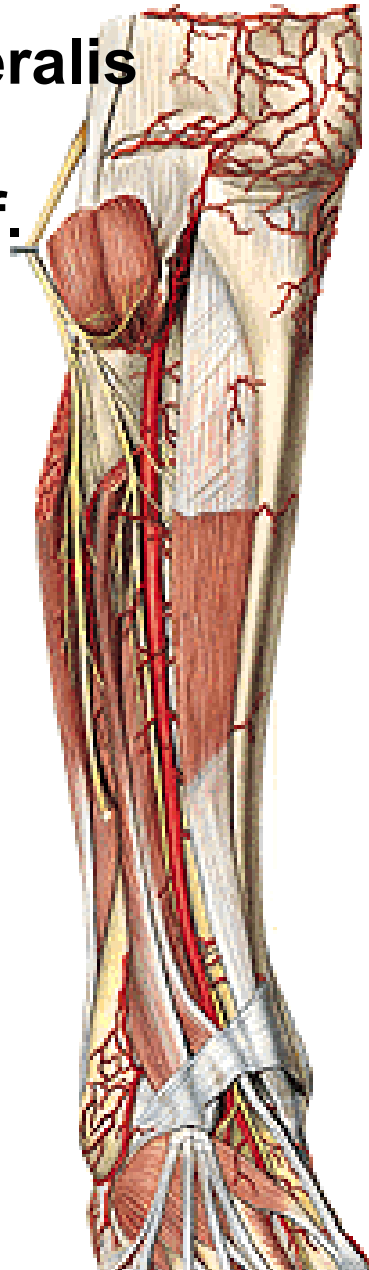
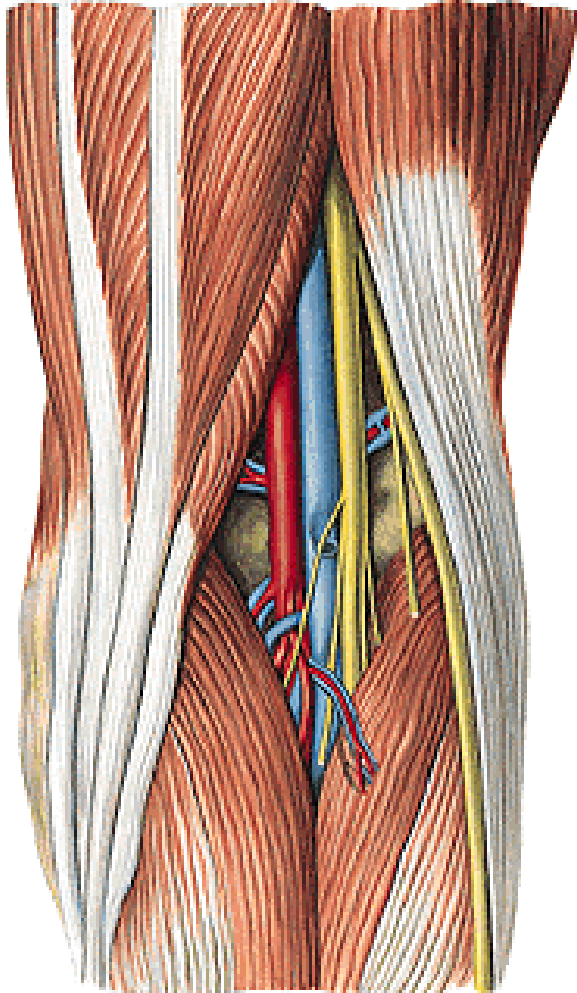


### Spinal disc herniation



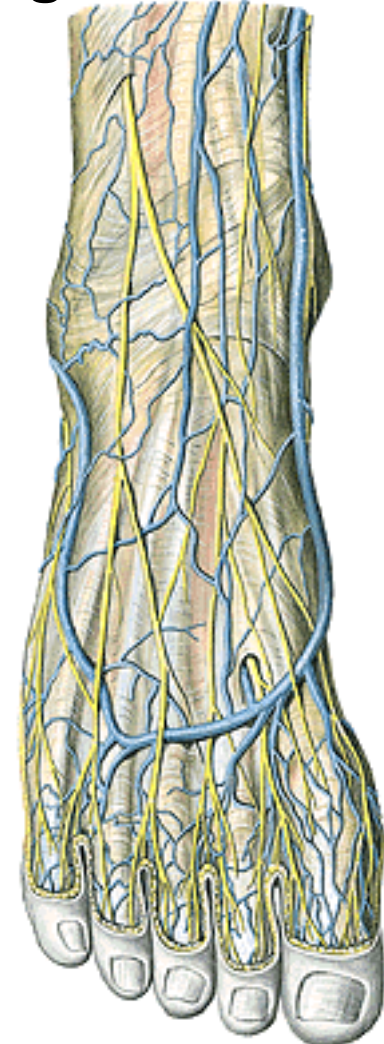
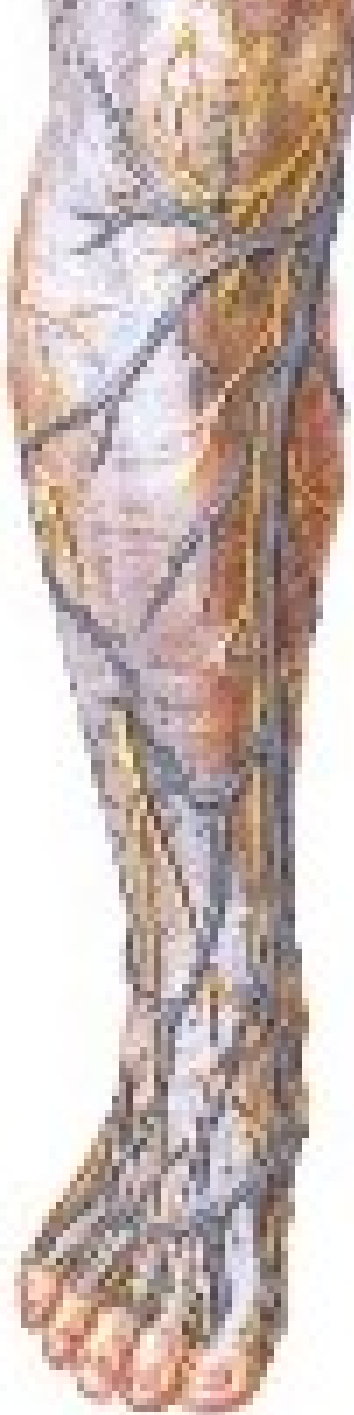
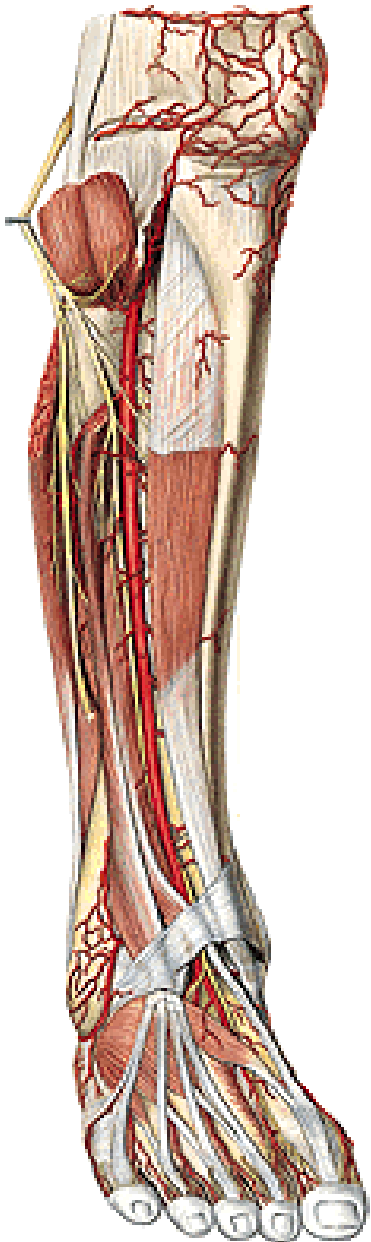
# N. FIBULARIS/PERONEUS COMMUNIS

- rr. articulares
- n. cutaneus surae lateralis
- r. communicans
- n. fibularis spf. et prof.



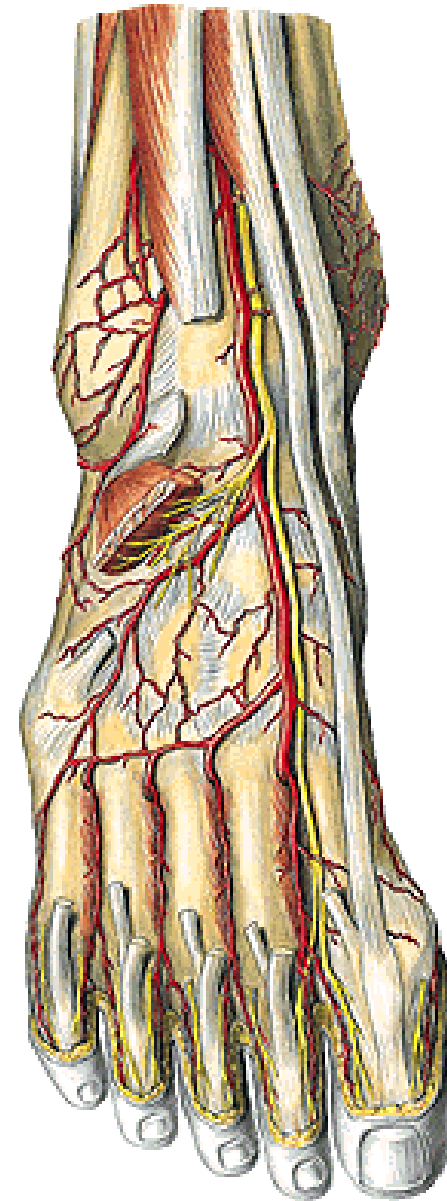
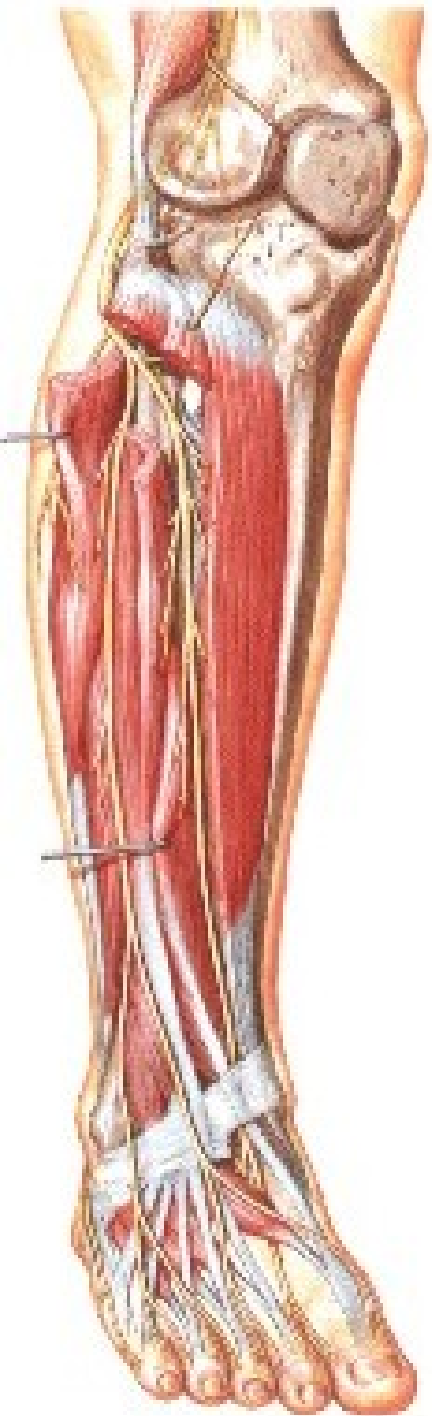
# N. FIBULARIS SPF.

- rr. musculares
- n. cutaneus dorsalis med.
- n. cutaneus dors. intermedius
  - nn. digitales dorsales



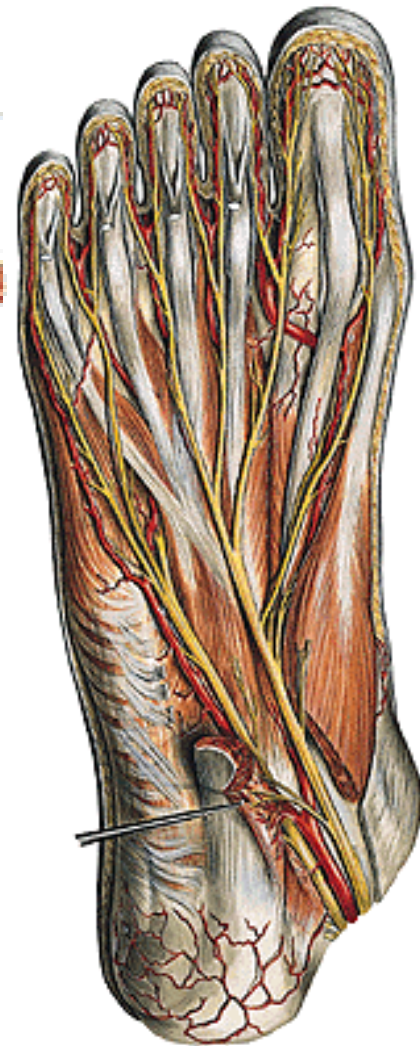
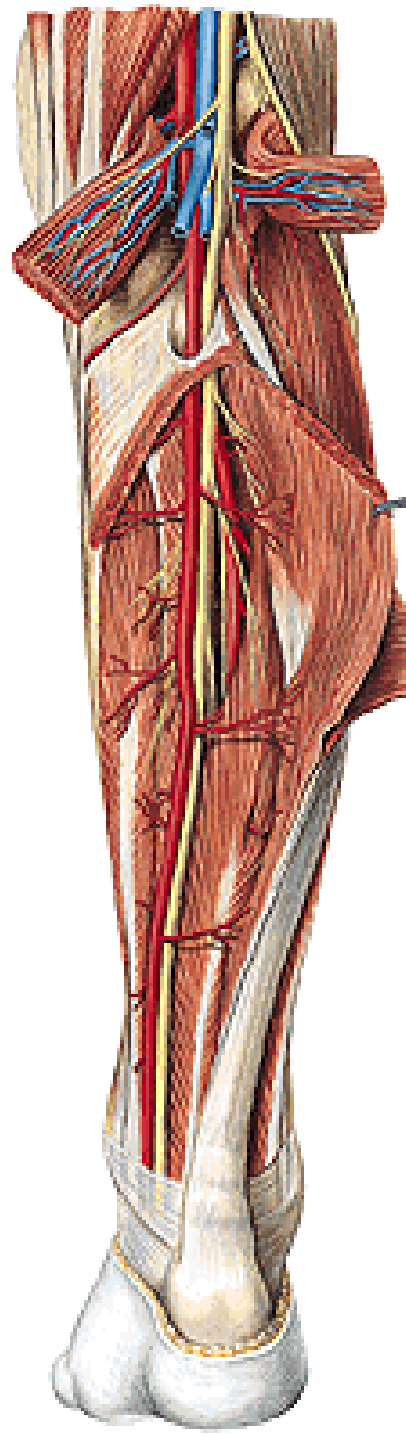
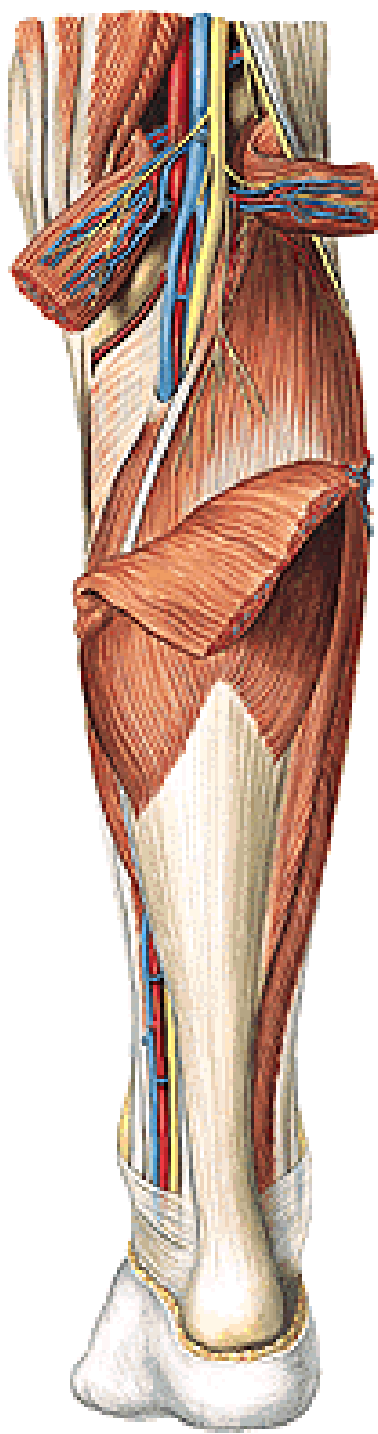
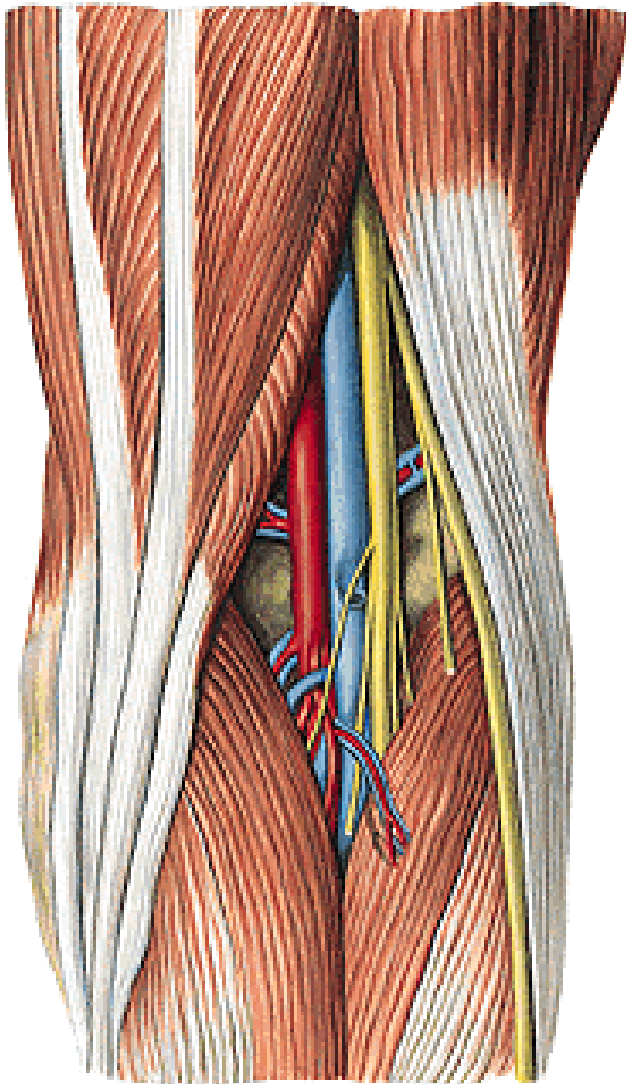
## **N. FIBULARIS PROF.**

- rr. musculares
- nn. digitales dorsales



# N. TIBIALIS

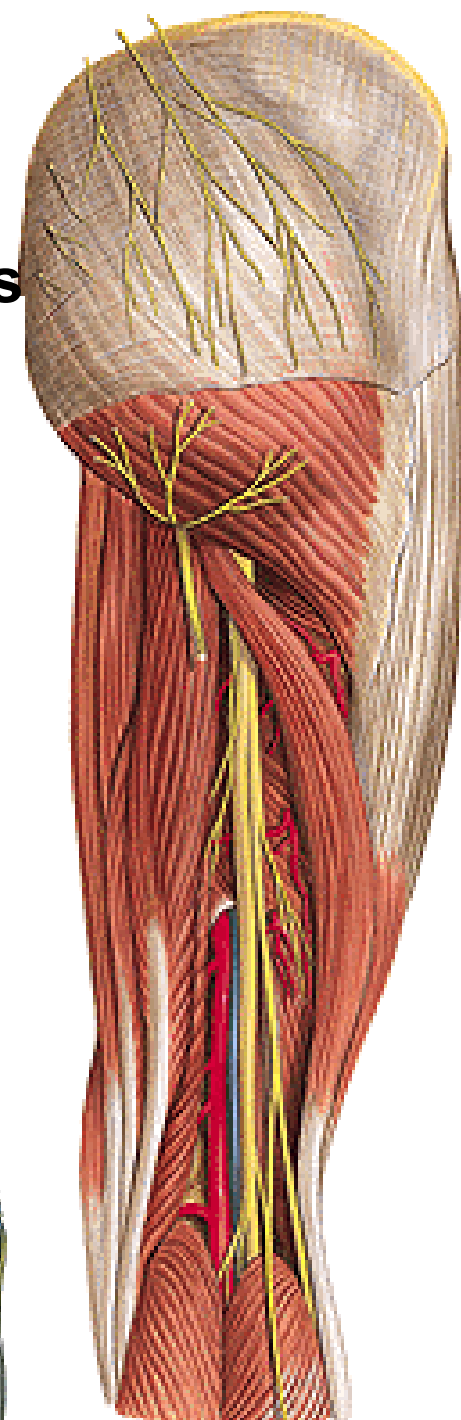
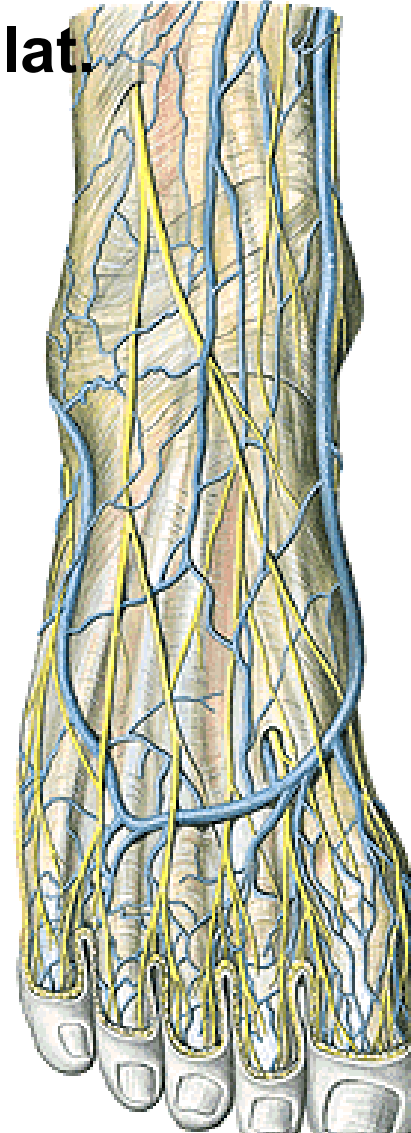
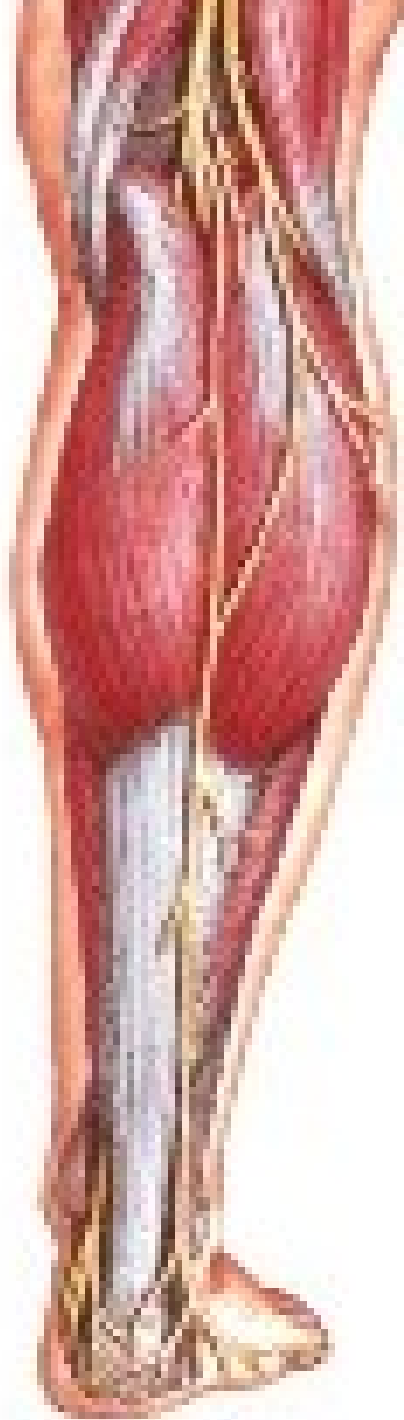
(arcus tendineus m. solei)

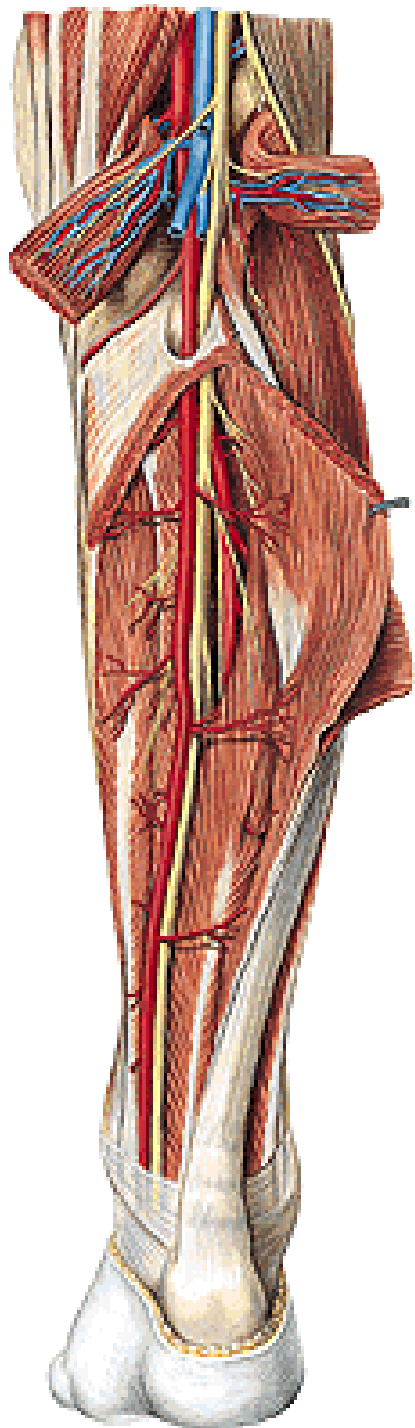


## **N. TIBIALIS**

**- n. cutaneus surae medialis  
(+ r. communicans fibularis)**

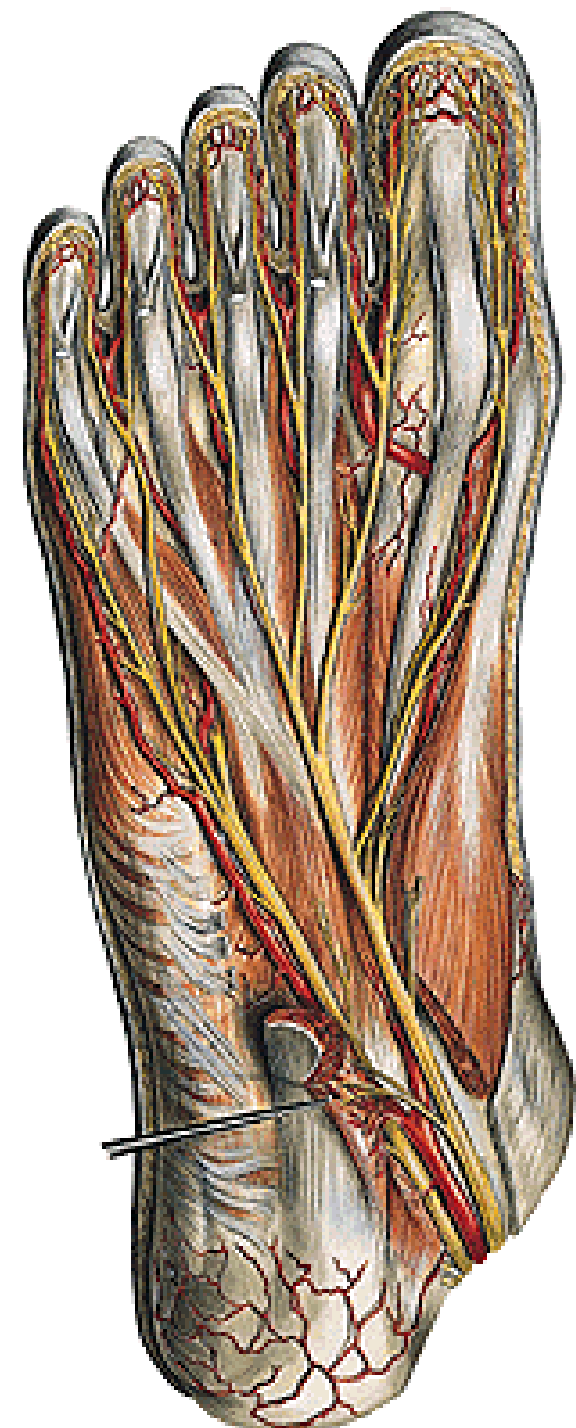
**→ n. suralis – n. cutaneus  
dorsalis lat.**





## **N. TIBIALIS**

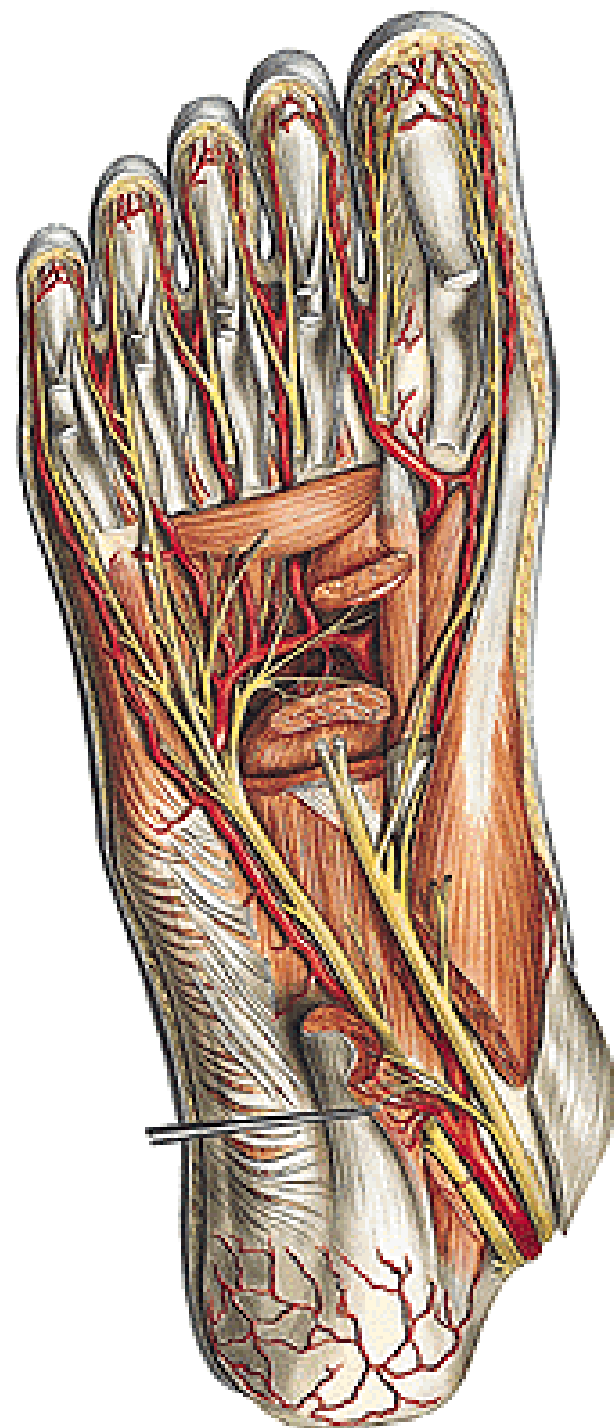
- rr. musculares
- n. interosseus cruris
- rr. calcanei med.
- n. plantaris med.
  - rr. musculares
  - nn. digitales plantares comm. et proprii
- n. plantaris lat.
  - r. spf. – nn. dig. plant. proprii
  - r. prof. – rr. musculares



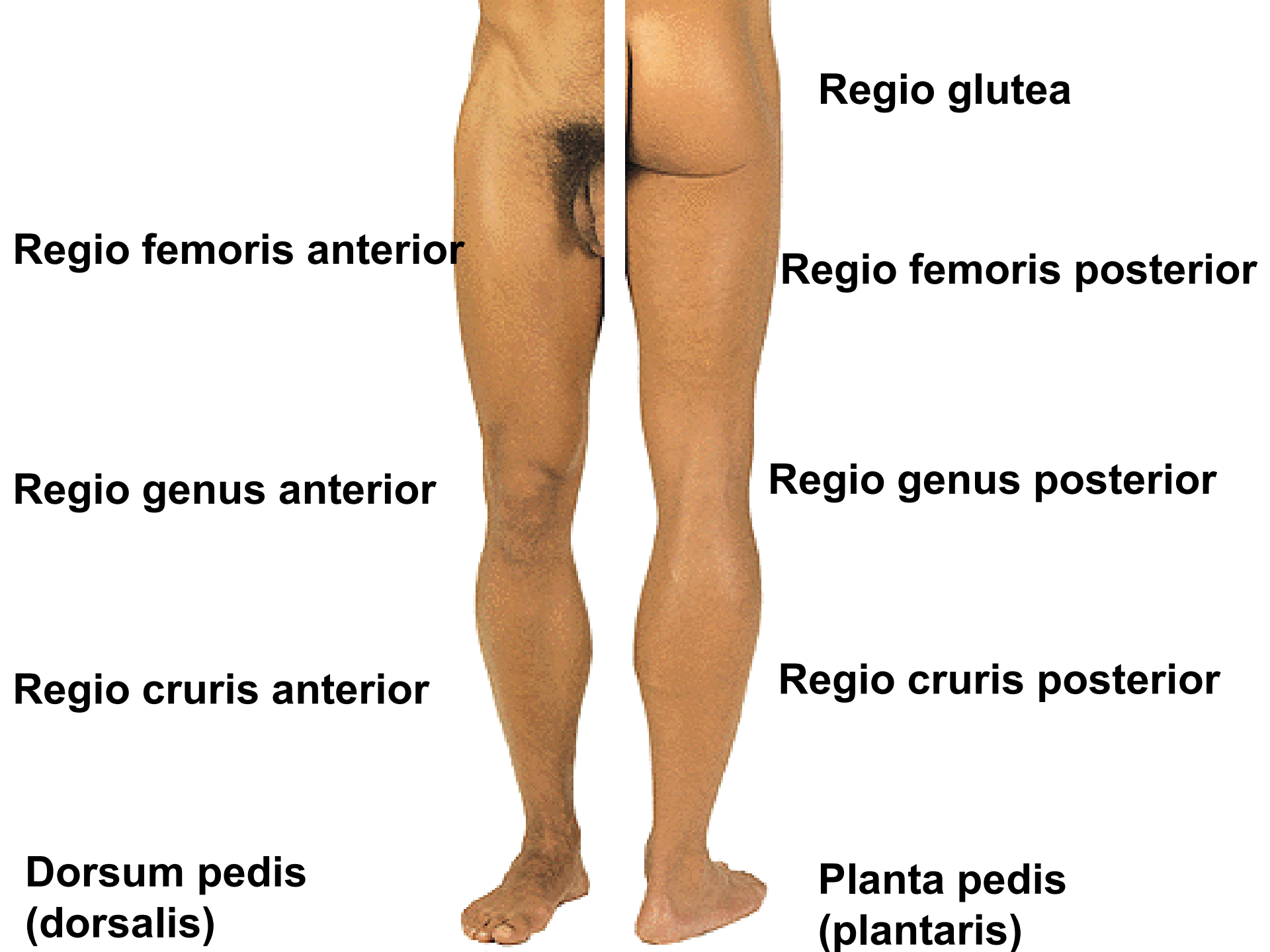


## **N. TIBIALIS**

- **n. plantaris lat.**
  - **r. spf. – nn. dig. plant. proprii**
  - **r. prof. – rr. musculares**



# **Regional anatomy of the lower limb**



**Regio glutea**

**Regio femoris anterior**

**Regio femoris posterior**

**Regio genus anterior**

**Regio genus posterior**

**Regio cruris anterior**

**Regio cruris posterior**

**Dorsum pedis  
(dorsalis)**

**Planta pedis  
(plantaris)**



# **REGIO GLUTEA**

**Crena ani**

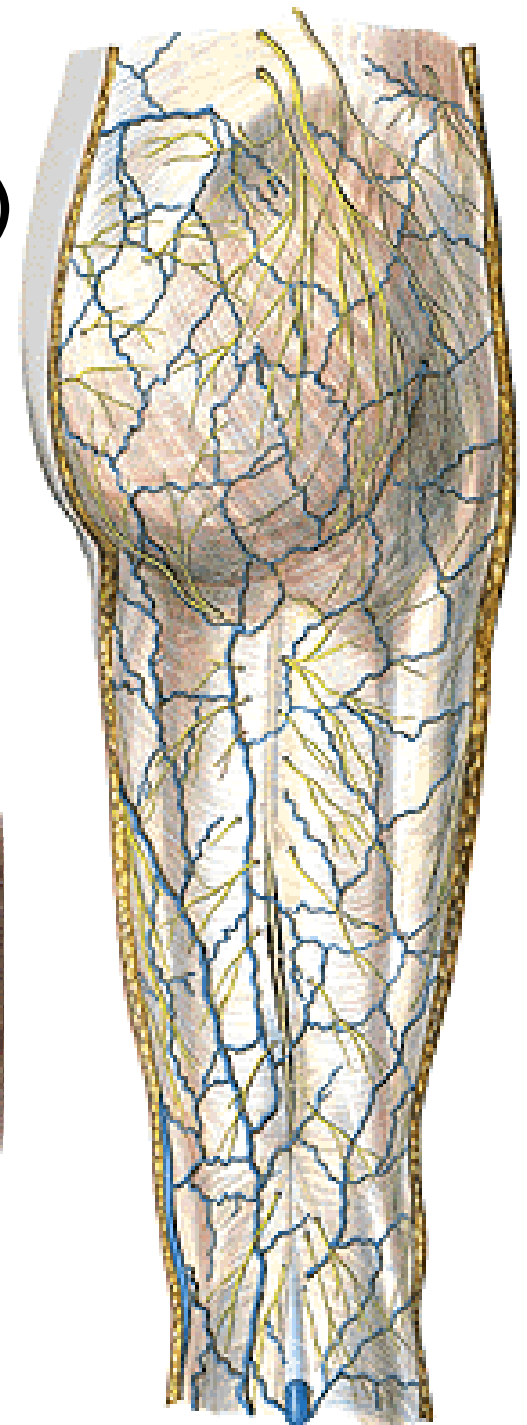
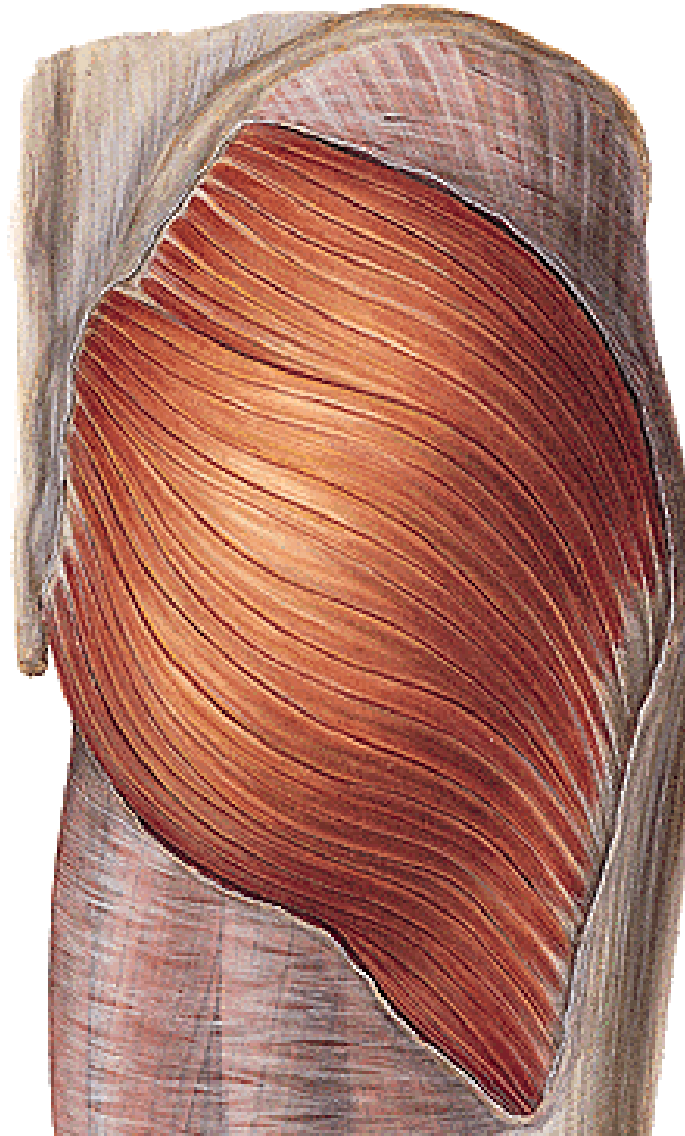


**Nn. clunium sup. (rr. dors.L1-L3)**

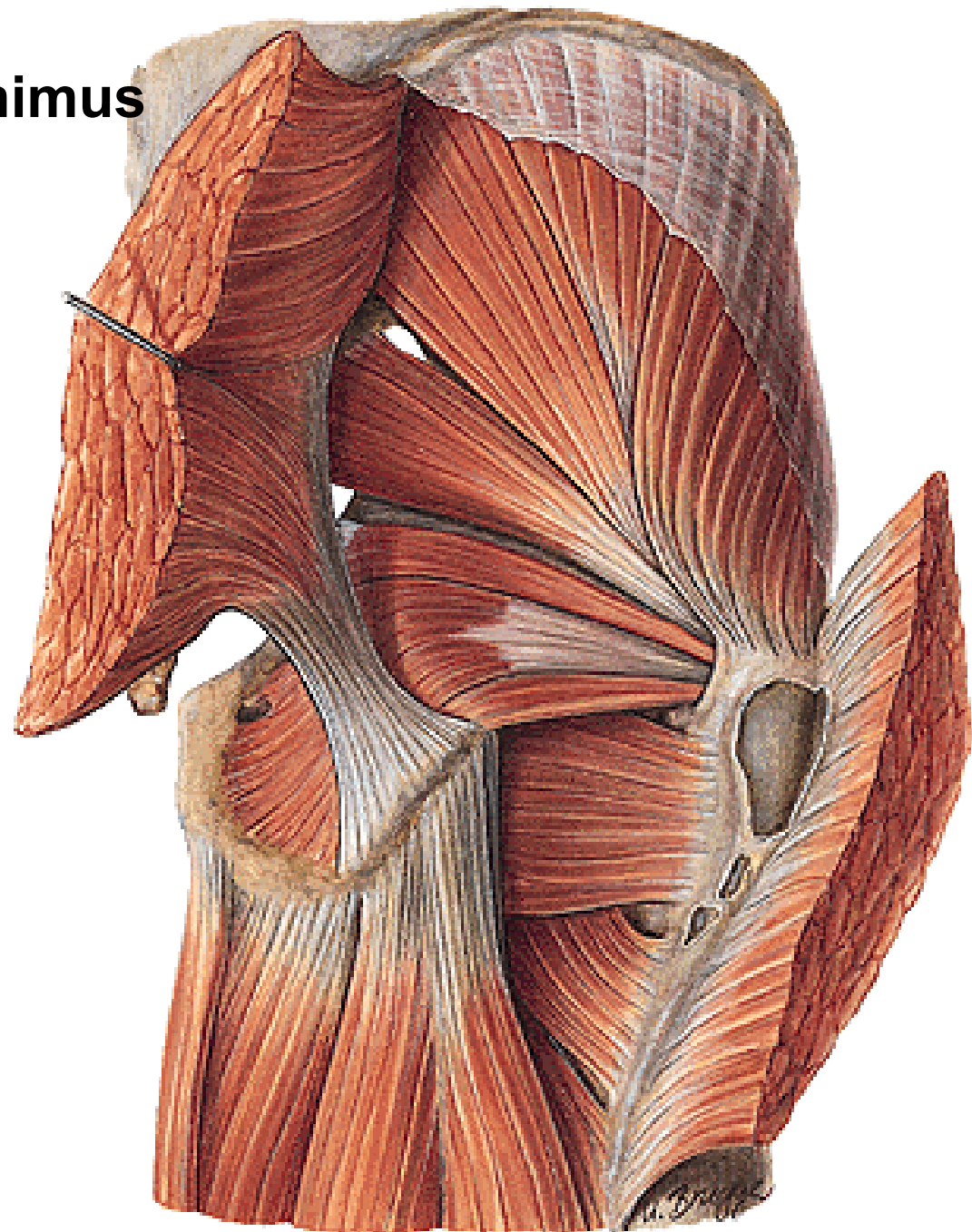
**Nn. clunium medii (rr. dors.S1-S3)**

**Nn. clunium inf. (N. cutaneus femoris post.)**

**M. gluteus maximus**

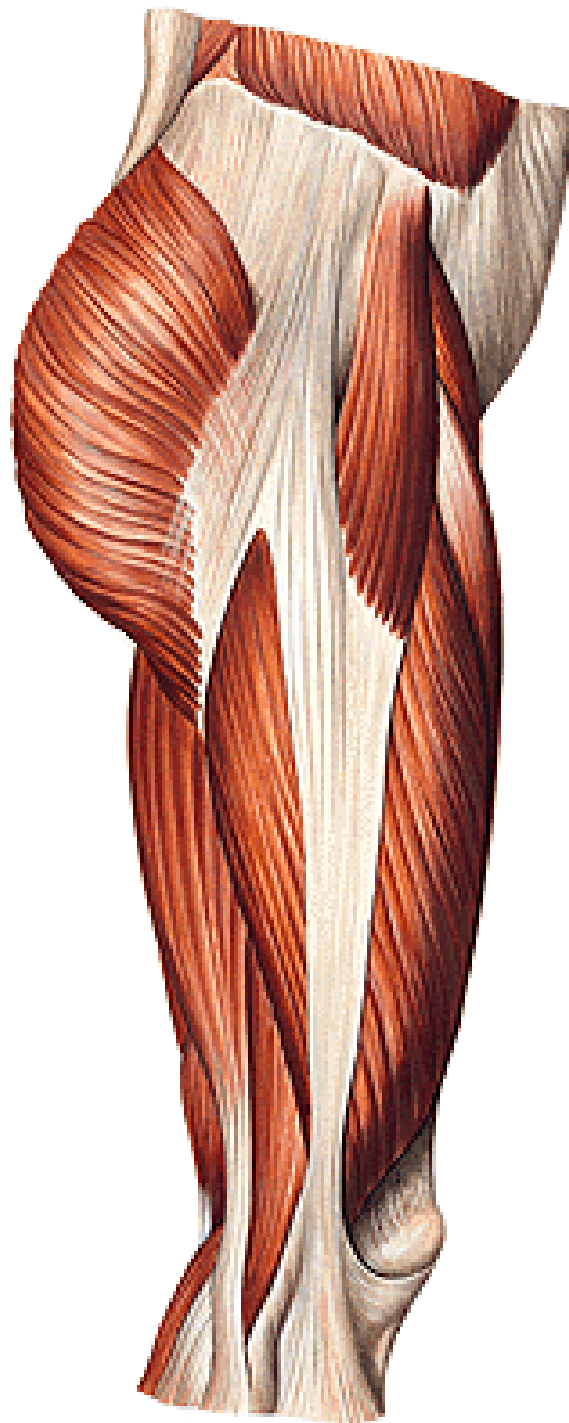


**M. gluteus medius et minimus**  
**M. piriformis →**  
**Foramen suprapiriforme**  
**Foramen infrapiriforme**  
**M. obturatorius internus**  
**M. gemellus superior et inferior**  
**M. quadratus femoris**



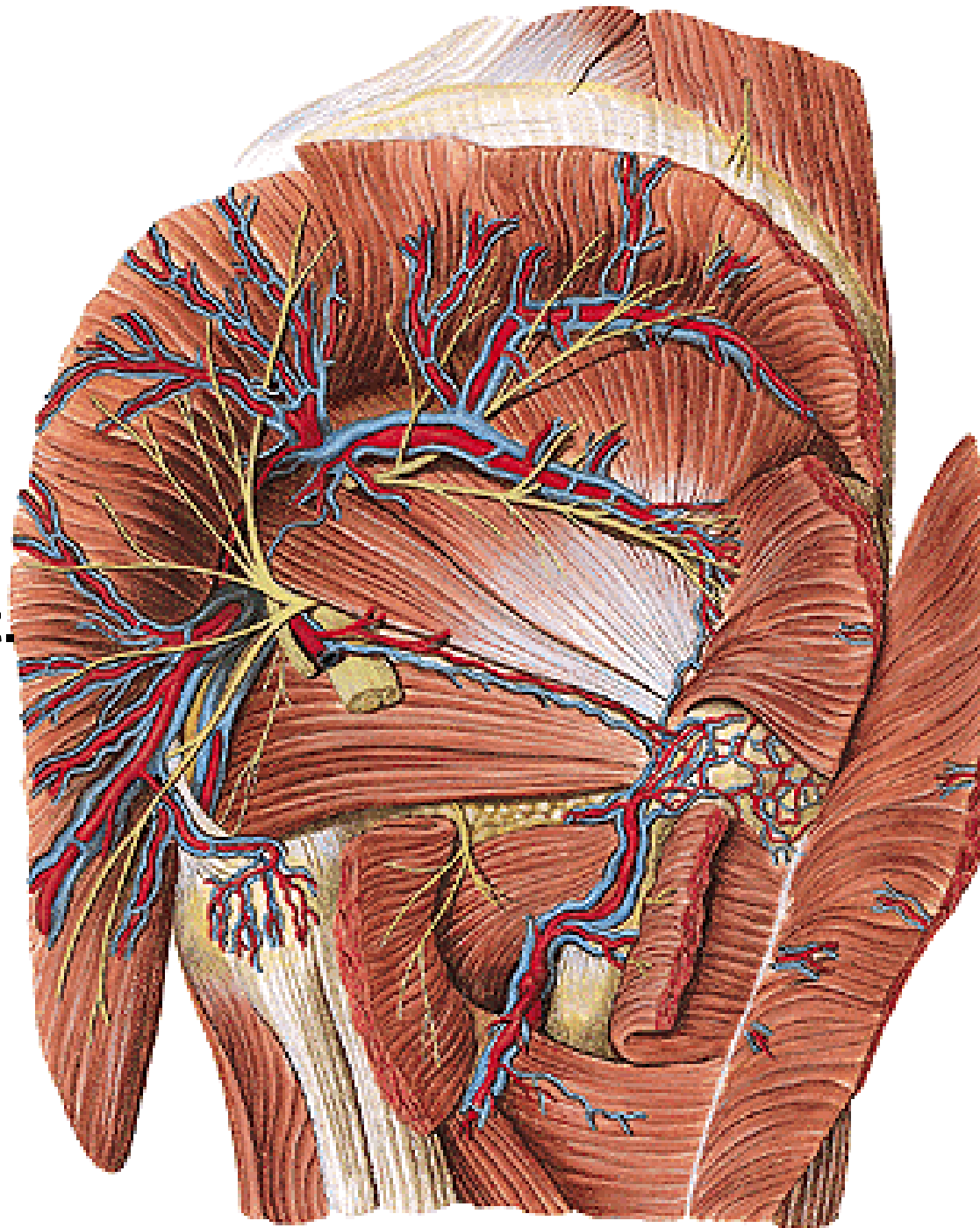


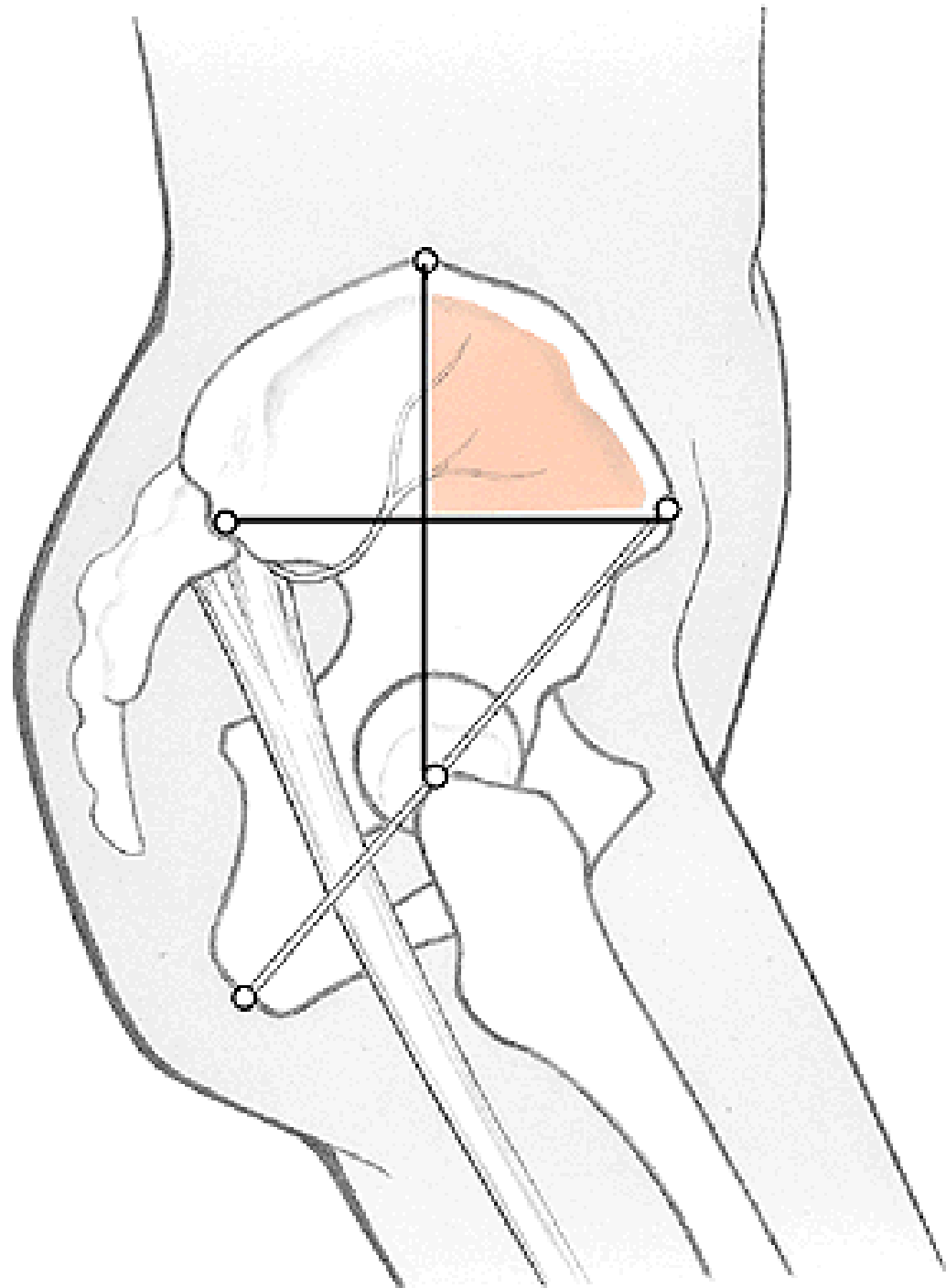
**M. tensor fasciae latae**  
**Tractus iliotibialis**



**For. suprapiriforme:  
Nn. et vasa glutea sup.  
(m. gluteus medius,  
m. gluteus minimus)**

**For. infrapiriforme:  
Nn. et vasa glutea inf.  
N. ischiadicus  
N. cutaneus femoris post.  
N. pudendus  
Vasa pudenda interna**





# **REGIO FEMORIS ANTERIOR**

**Rr. anteriores n. femoralis**

**N. cutaneus femoris lat.**

**N. ilioinguinalis**

**N. genitofemoralis**

**N. obturatorius**

**A. femoralis – a. epigastrica spf.**

**– a. circumflexa ilium spf.**

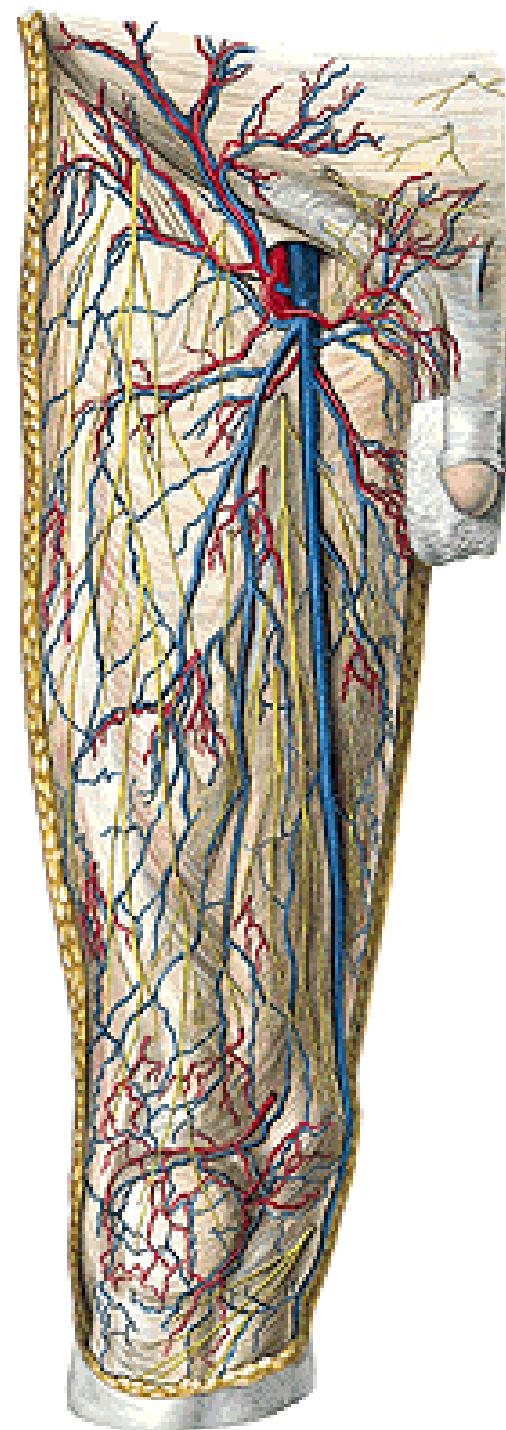
**– aa. pudendae externae**

**– rr. scrotales (labiales) ant.**

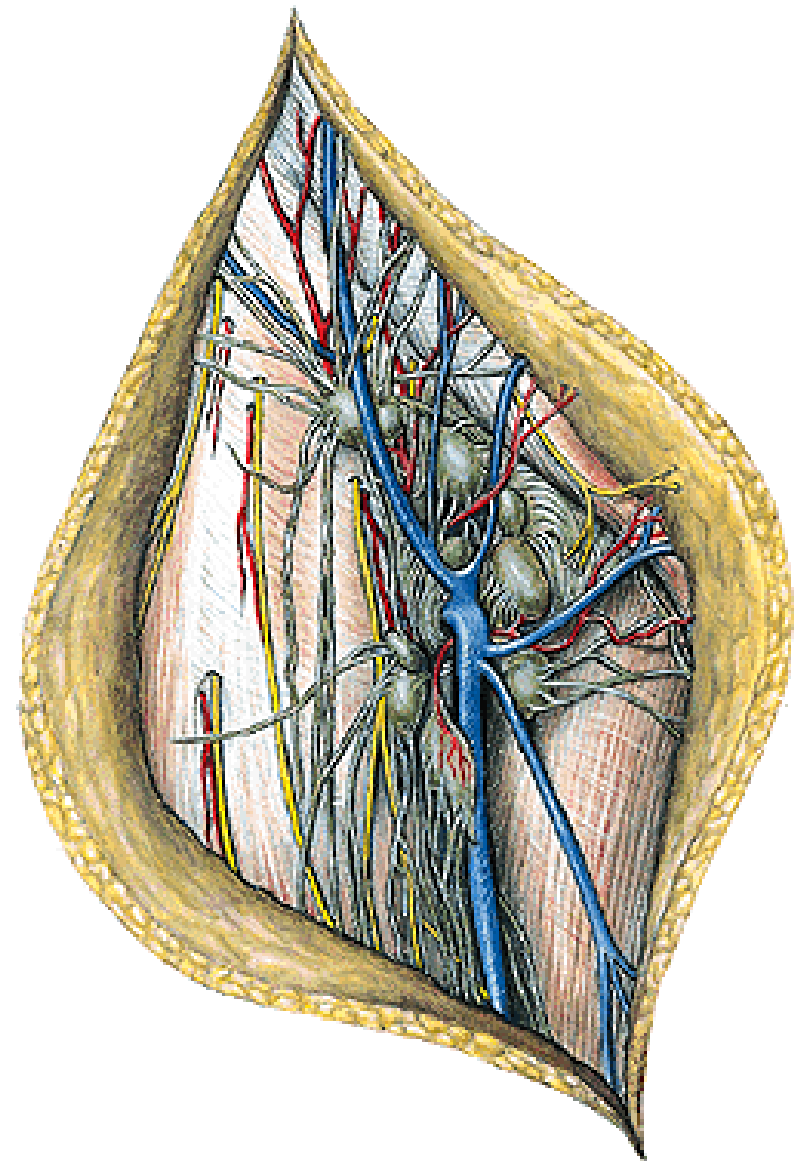
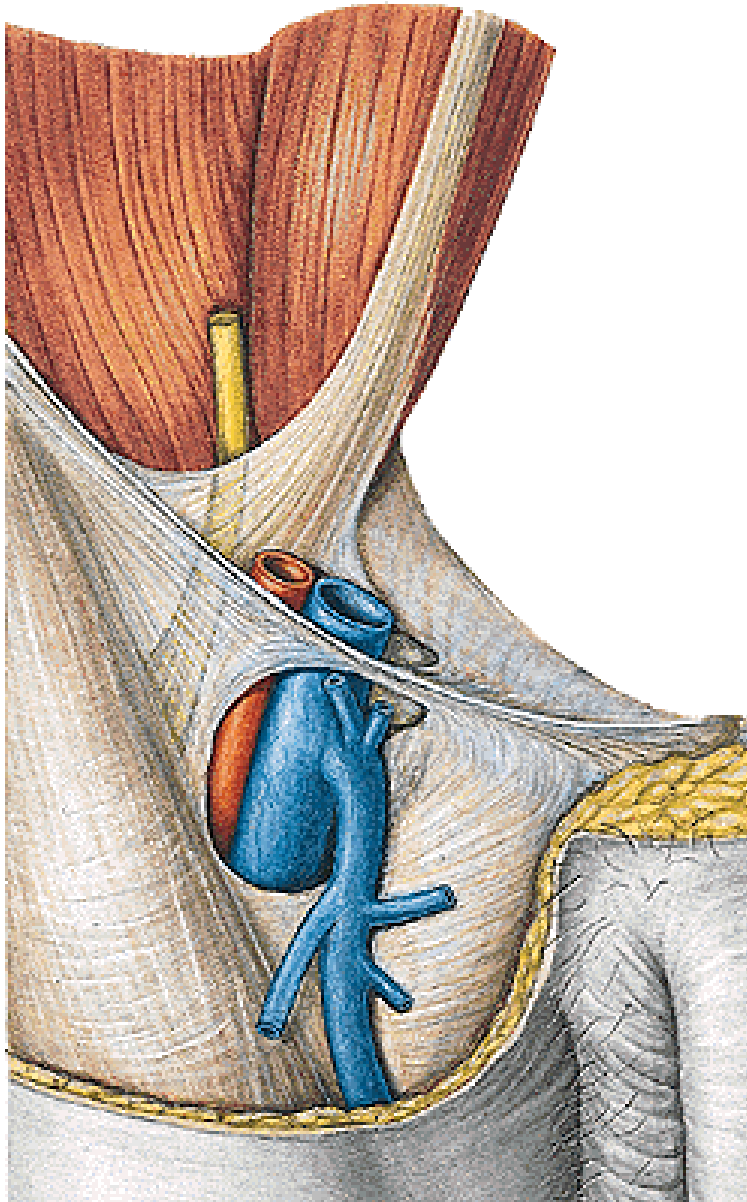
**V. saphena magna – v. saphena access.**

**lat. et med.**

**Fascia lata – hiatus saphenus**



# Hiatus saphenus – margo falciformis



**Nodi lymph. inguinales spf.**  
→ **nll. iliaci externi**

**M. iliopsoas**

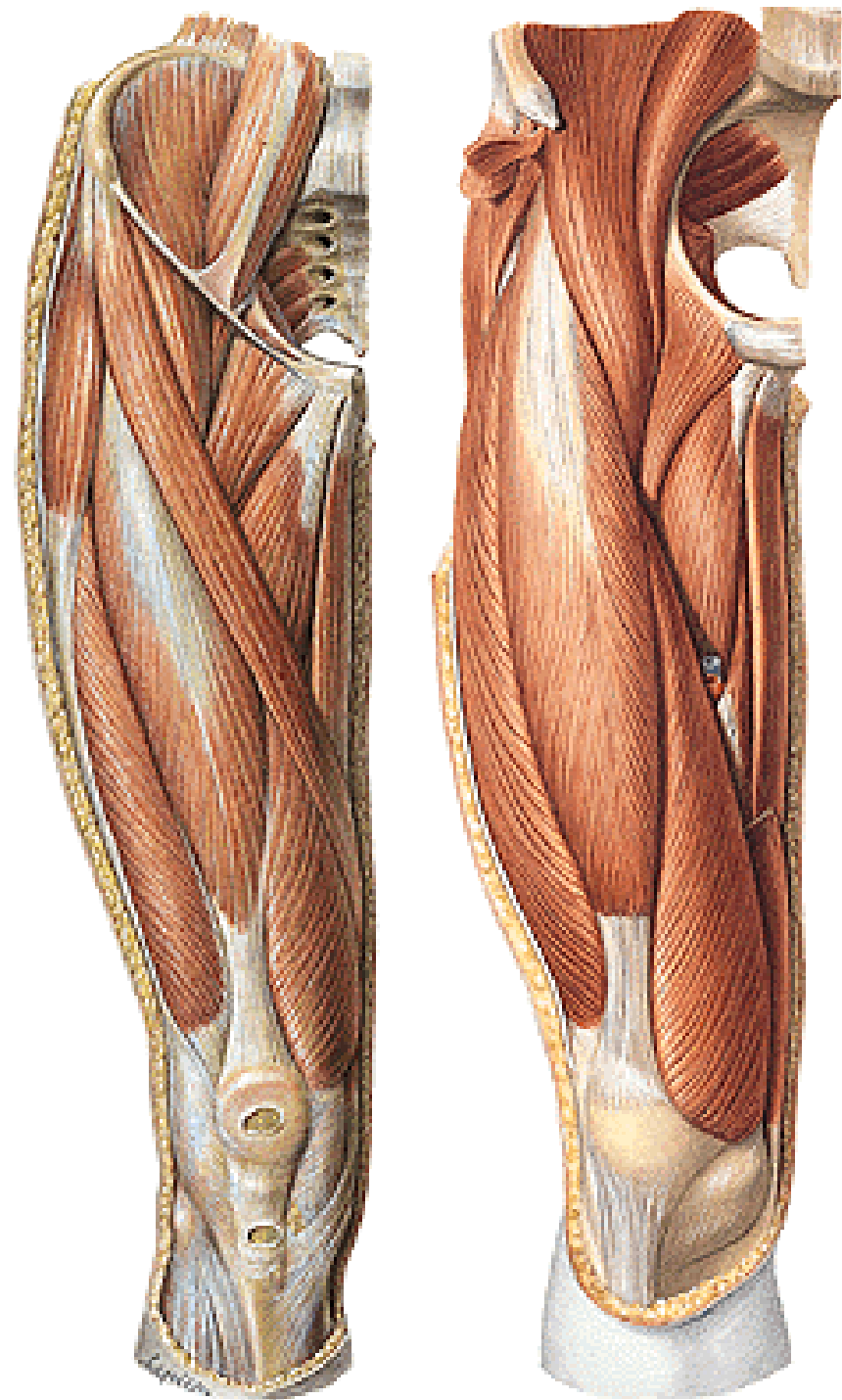
- M. iliacus
- M. psoas major  
(M. psoas minor)

**M. sartorius**

**M. quadriceps femoris:**

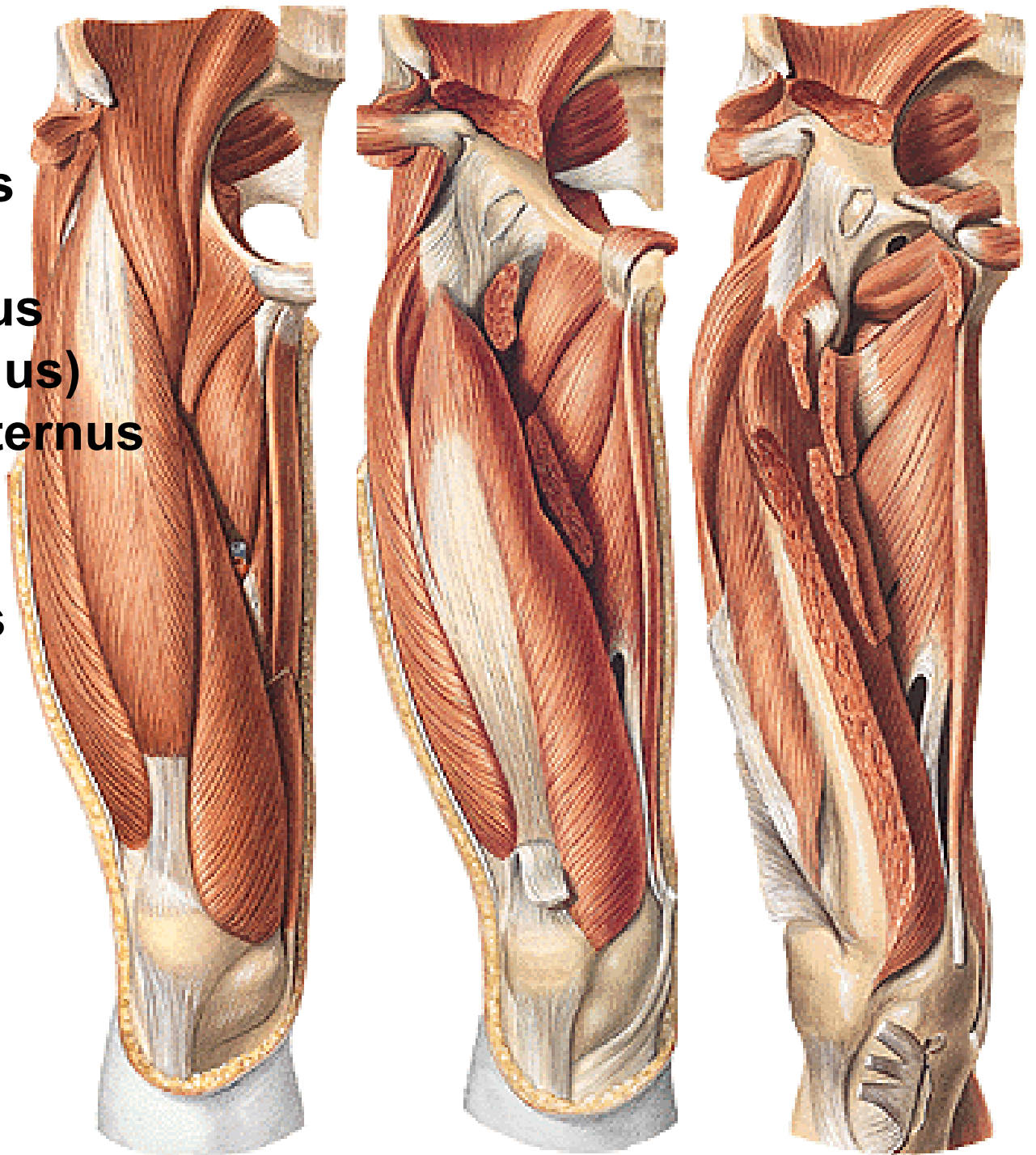
**M. rectus femoris**

**M. vastus med., lat.,  
intermedius**



**M. pectineus**  
**M. adductor longus**  
**M. adductor brevis**  
**M. adductor magnus**  
**(m.adductor minimus)**  
**M. obturatorius externus**  
**M. gracilis**

**Hiatus adductorius**



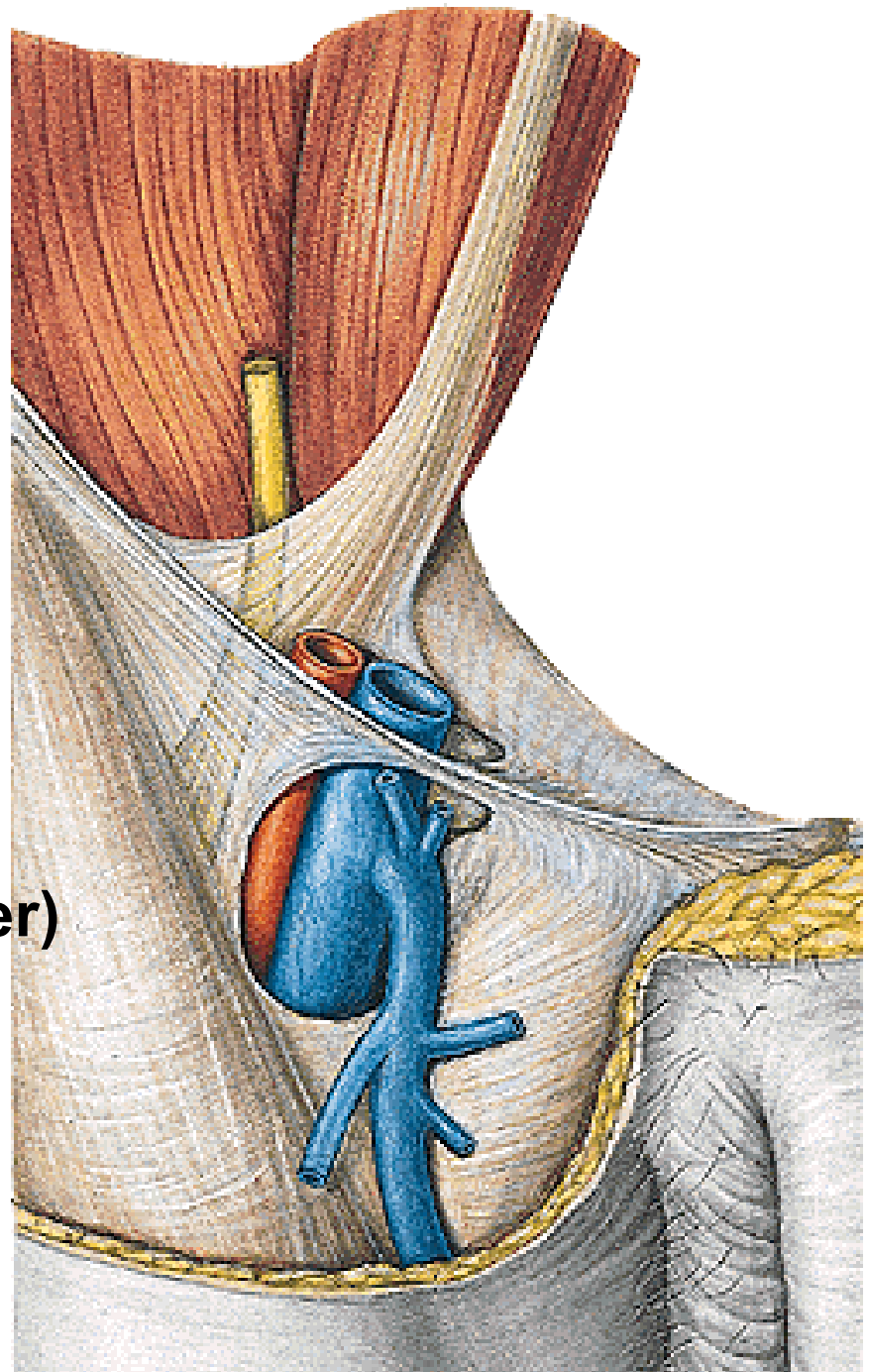


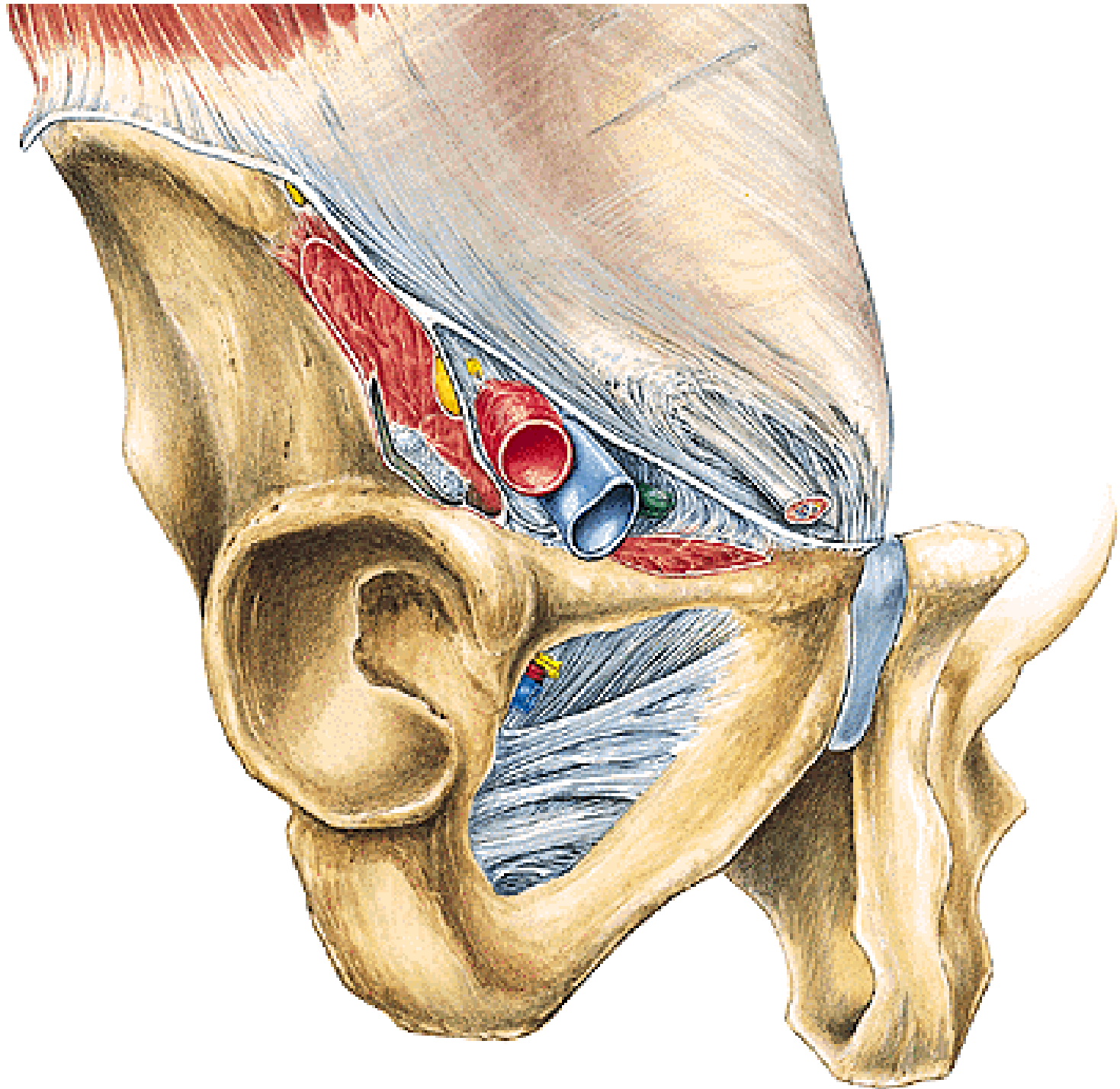
**Lacuna musculorum**  
**Lacuna vasorum**

**Arcus iliopectineus**

**Lig. inguinale**  
**Lig. lacunare**

**Anulus (canalis) femoralis**  
**- n. lymph. inguinalis prof.**  
**(of Cloquet and Rosenmüller)**



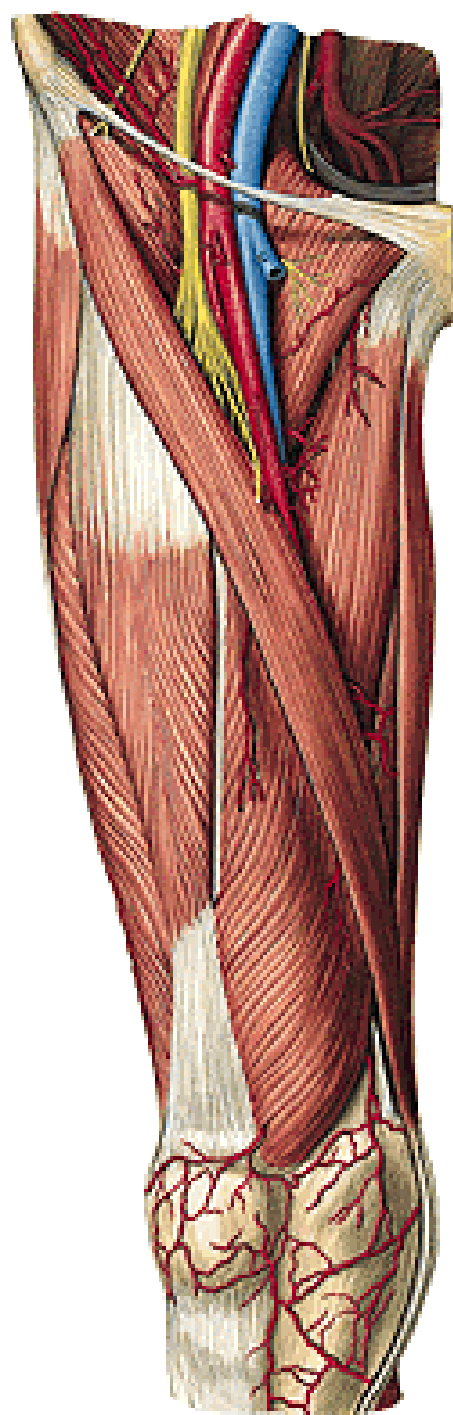


## Trigonum femorale

- A. et v. femoralis
- N. femoralis

## Fossa iliopectinea

- A. et v. femoralis prof.



**Canalis adductorius**  
**Lamina vastoadductoria**  
**Hiatus tendineus/  
adductorius**

**N. saphenus**

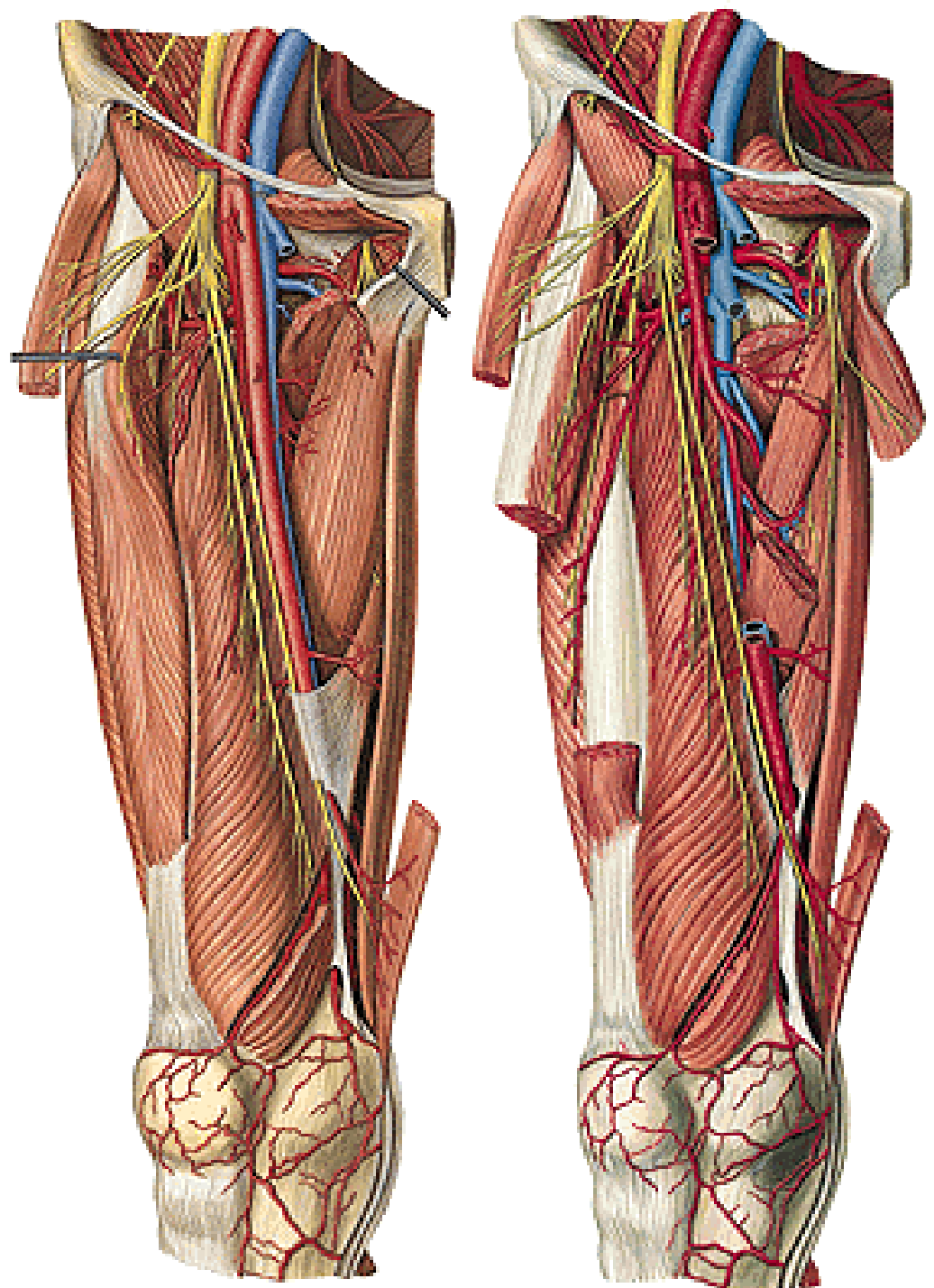
**A. genus descendens**

**N. obturatorius**

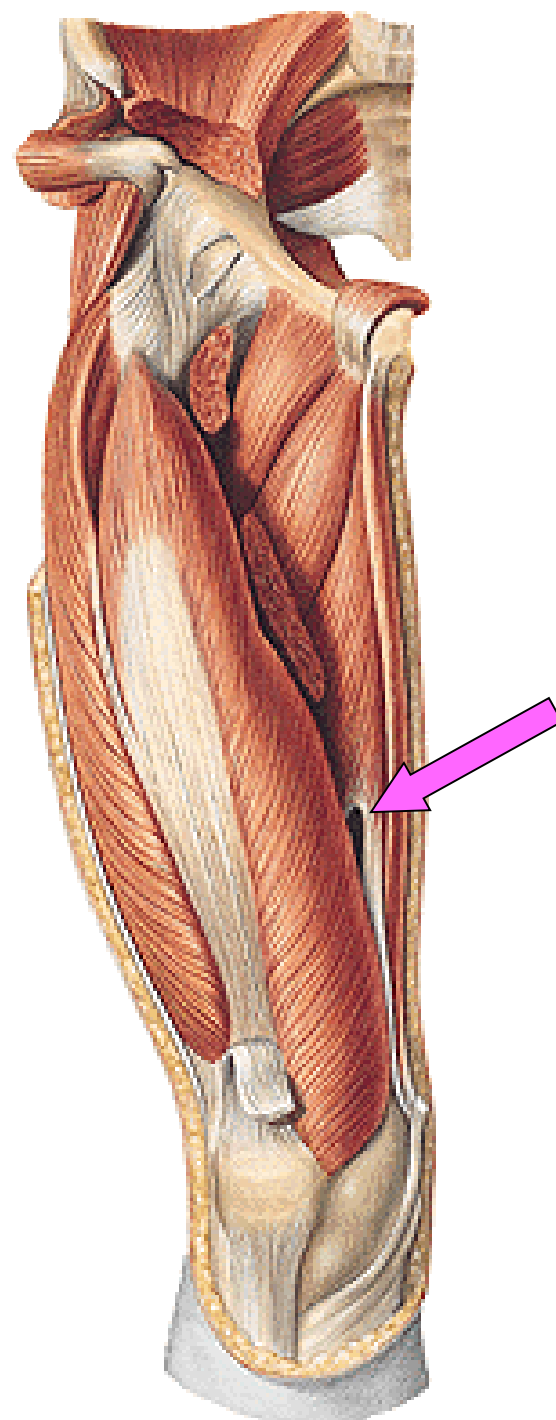
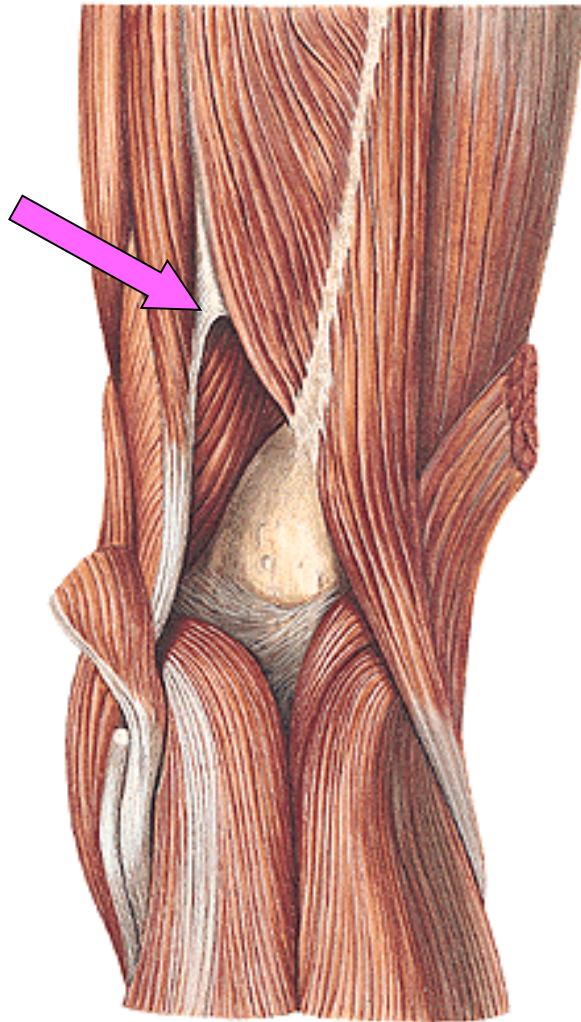
- r. anterior
- r. posterior

**A. et v. obturatoria**

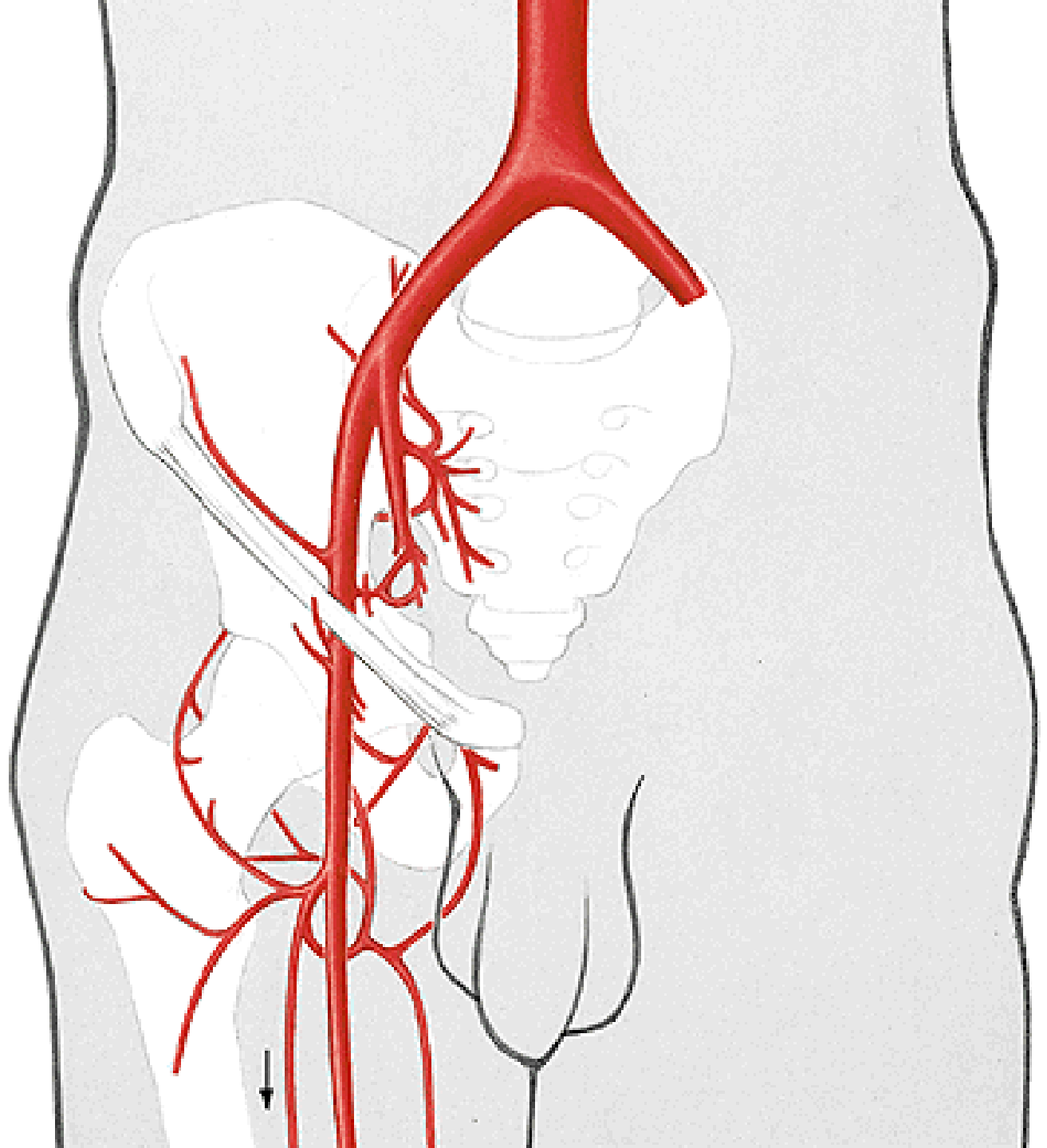
- r. anterior
- r. posterior
- r. acetabularis



# Hiatus tendineus/adductorius (Hunter)



**A. iliaca externa**  
**A. femoralis**



## **A. FEMORALIS:**

**A. profunda femoris**

**Rr. musculares**

**A. genus descendens**

## **A. PROFUNDA FEMORIS:**

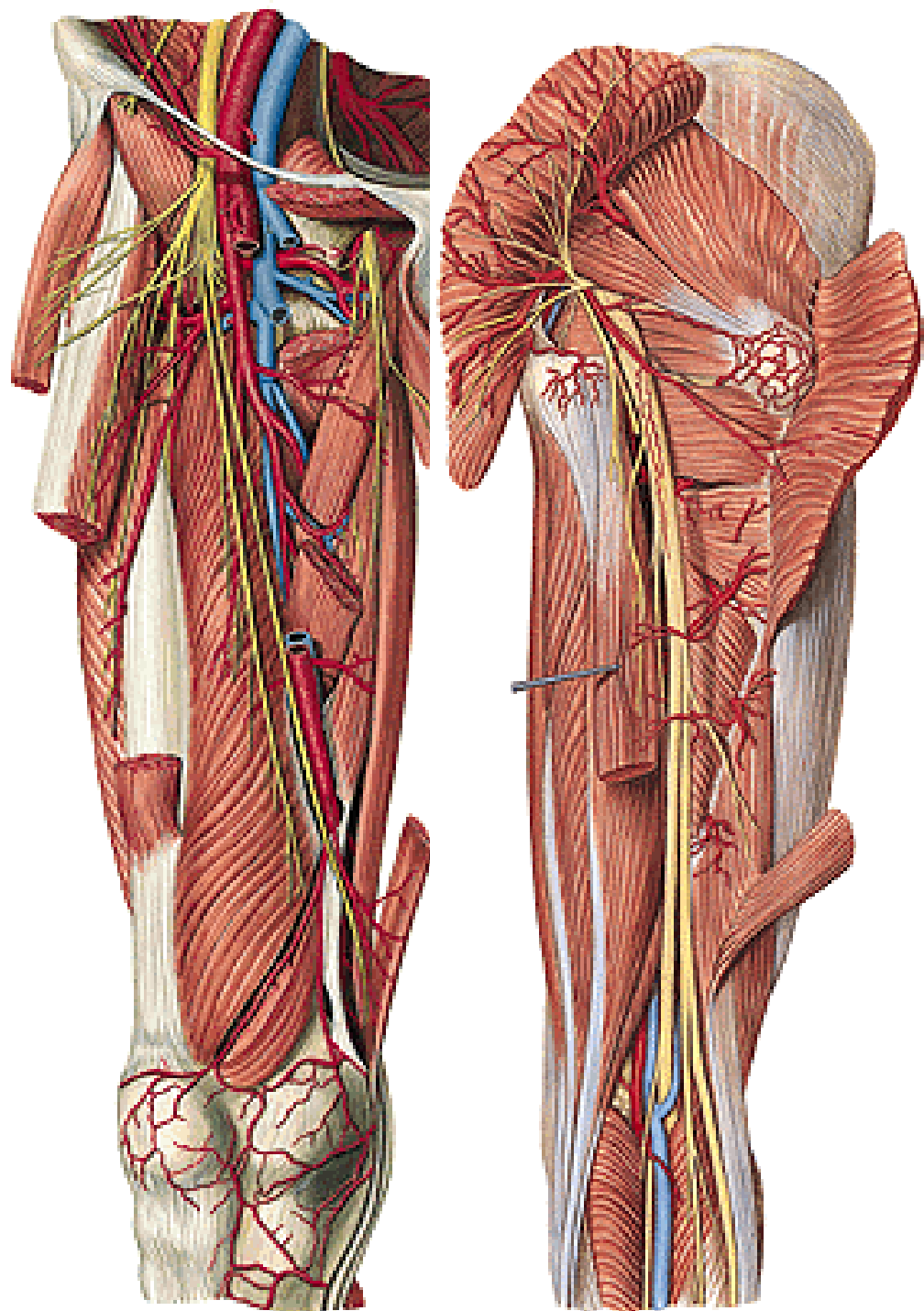
**A. circumflexa femoris  
medialis**

**A. circumflexa femoris lat.**

**A. perforans prima**

**A. perforans secunda**

**A. perforans tertia**



# **REGIO FEMORIS POSTERIOR**



# REGIO FEMORIS POSTERIOR

**N. cutaneus femoris post.**

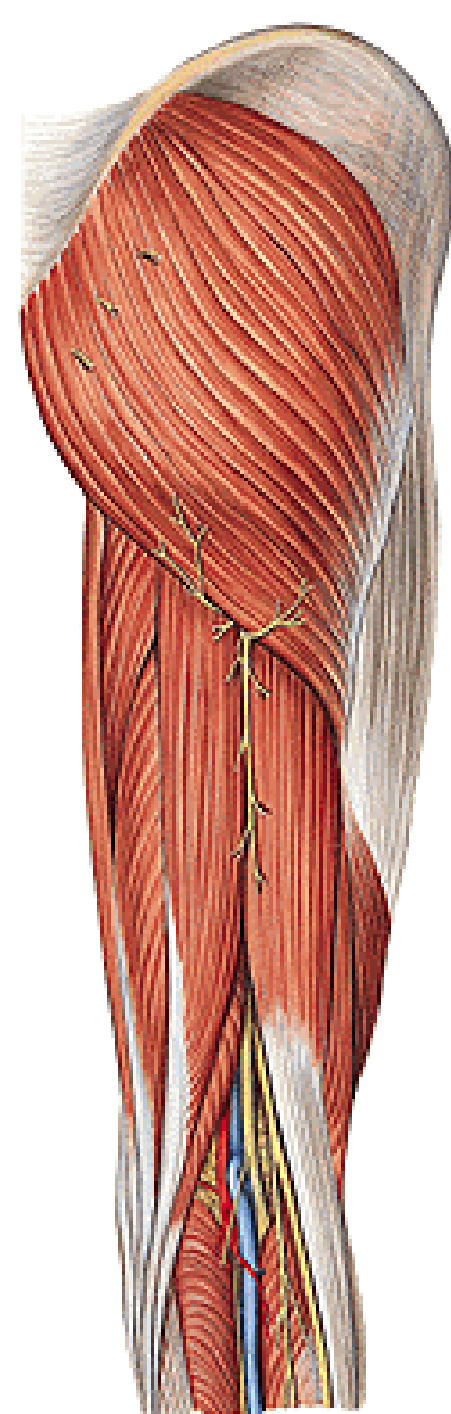
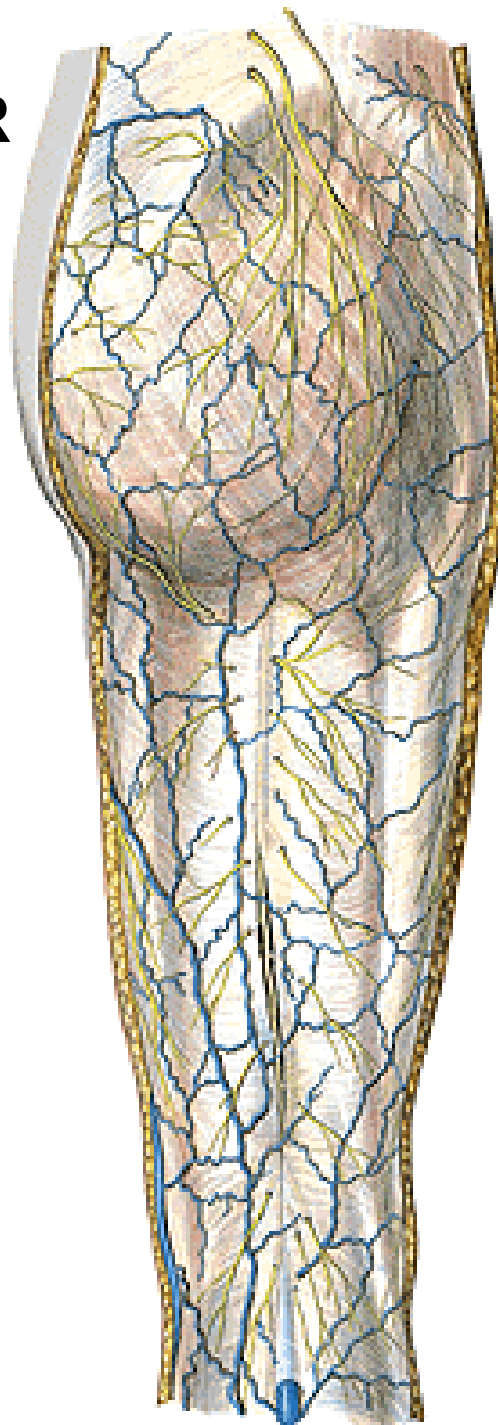
**V. femoropoplitea**

**M. biceps**

**M. semitendinosus**

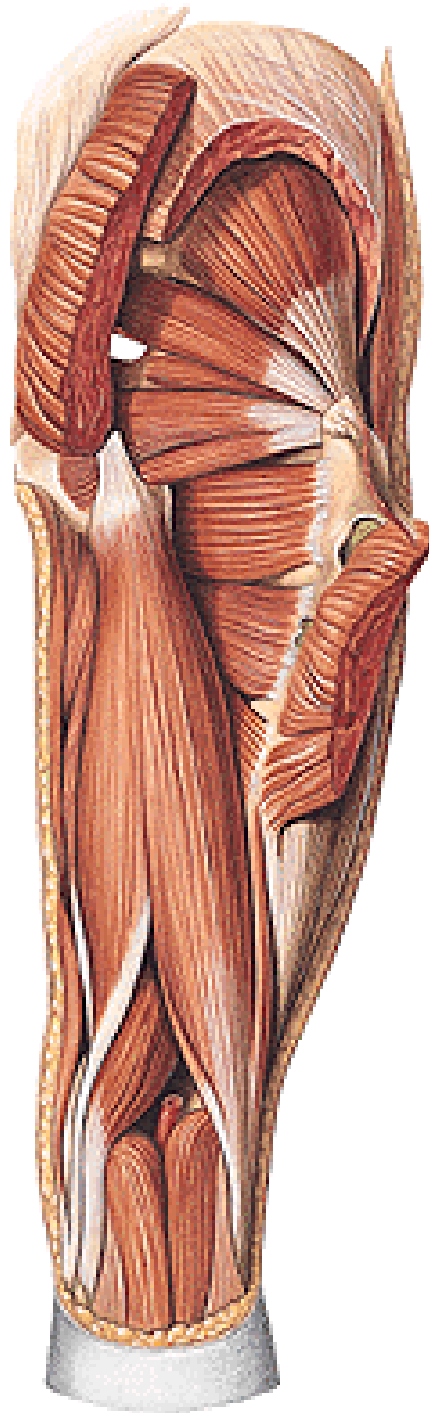
**M. semimembranosus**

**(hamstrings)**



**Hamstrings**

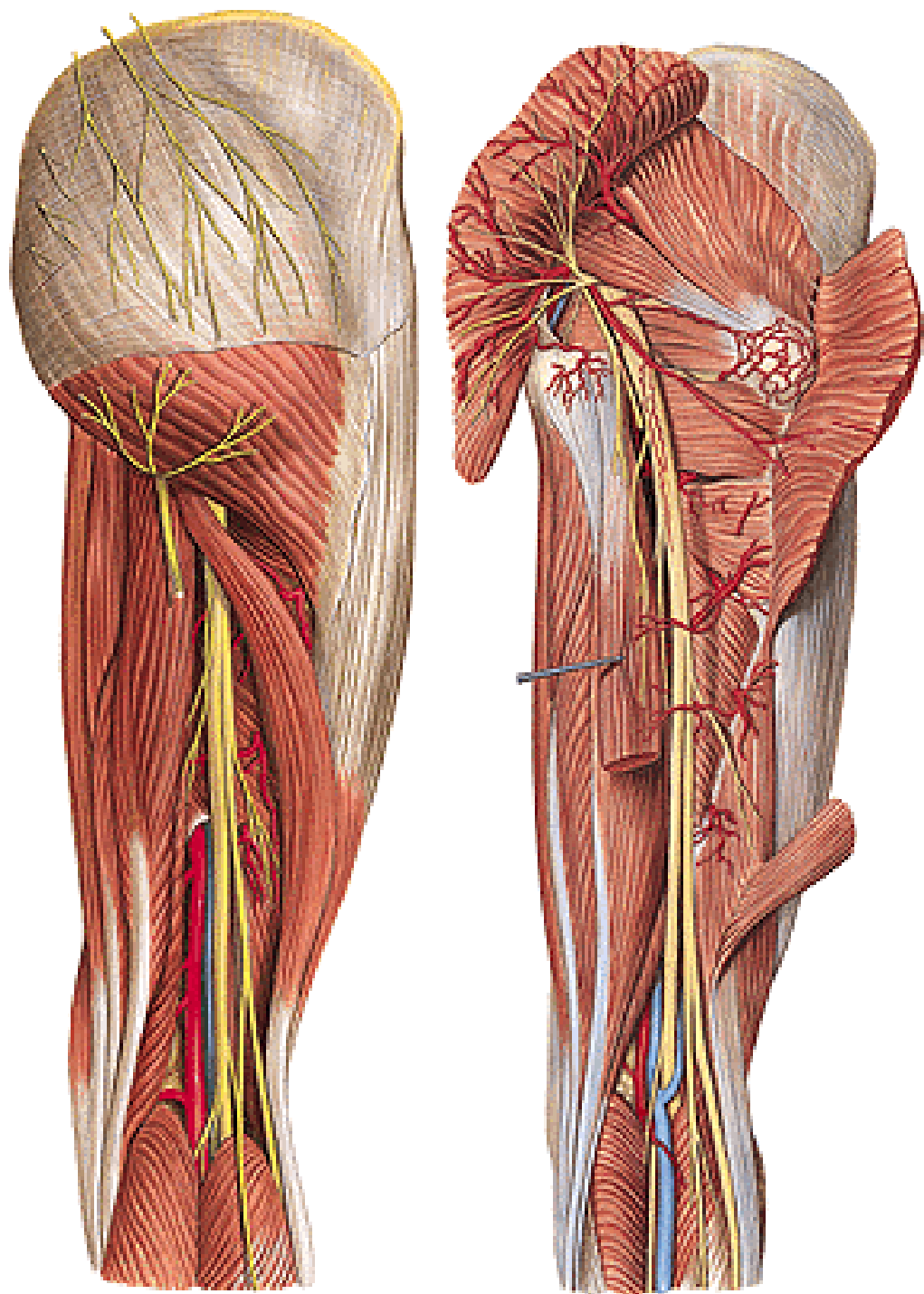
**Pes anserinus**



**N. ischiadicus**  
– n. tibialis  
- n. fibularis/  
peroneus communis

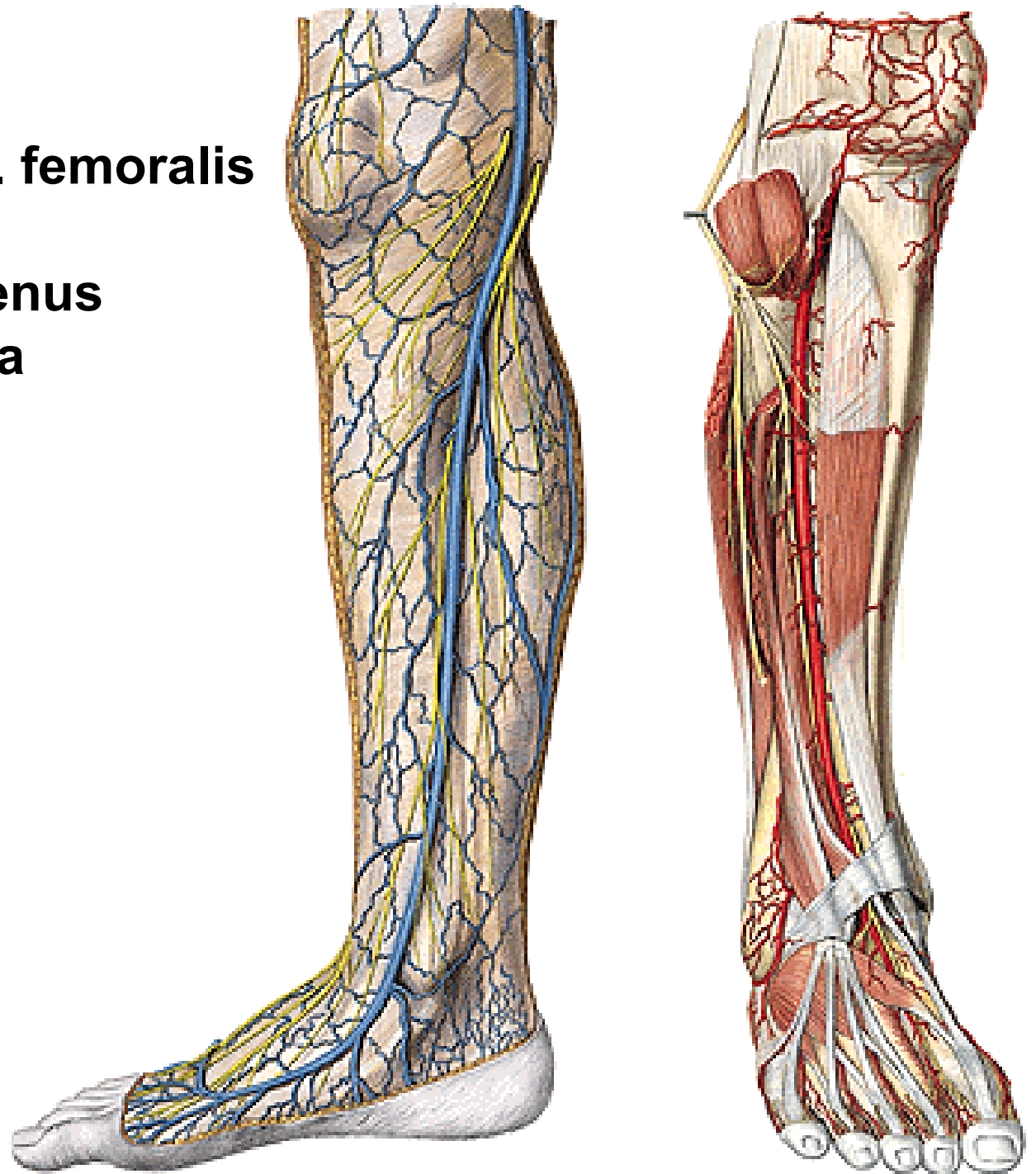
**A. comitans n. ischiadici**

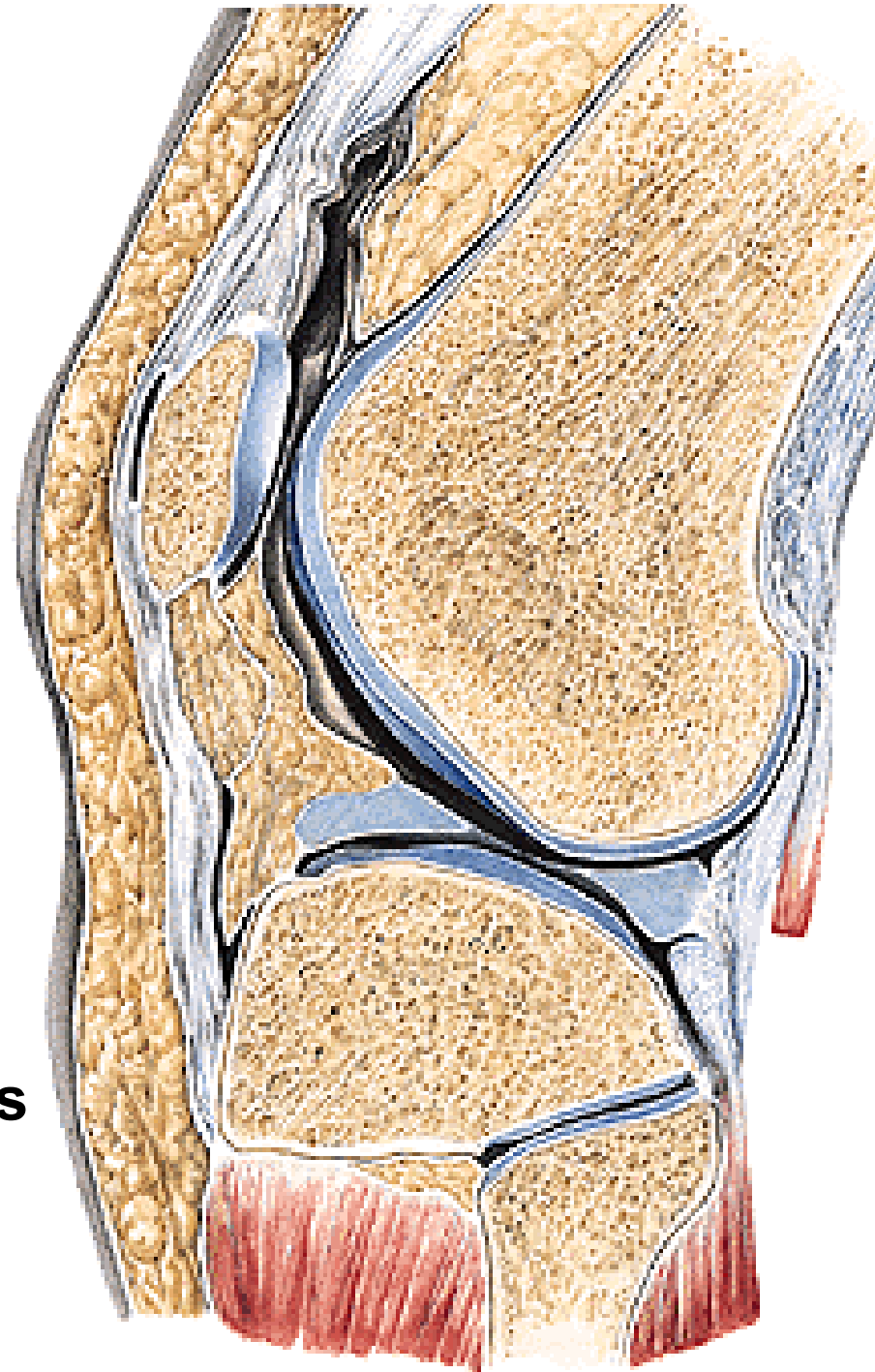
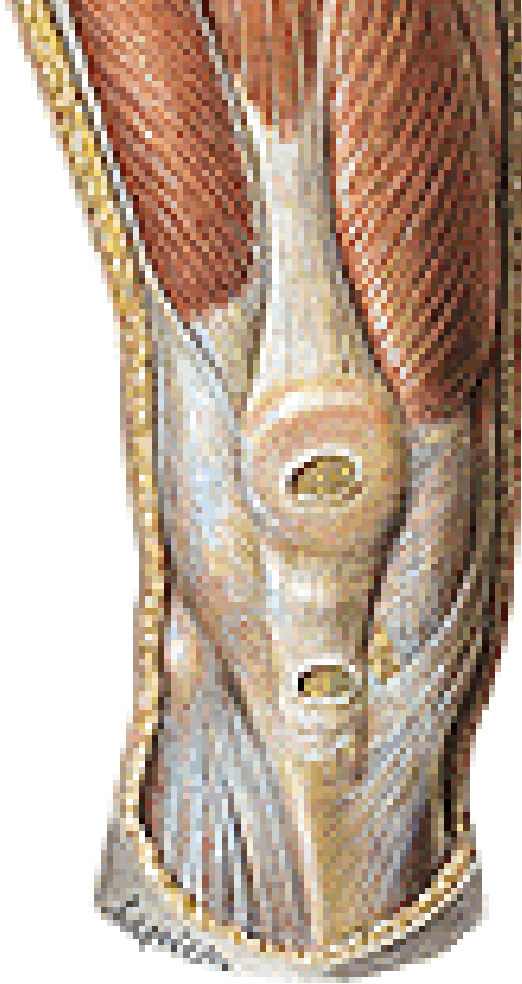
**Aa. perforantes**



# **REGIO GENUS ANTERIOR**

**Rr. cutanei ant. n. femoralis**  
**R. infrapatellaris**  
**Rete articulare genus**  
**V. saphena magna**





**Bursa subcutanea prepatellaris**  
**Bursa subcutanea infrapatellaris**  
**Bursa infrapatellaris profunda**  
**Bursa suprapatellaris**

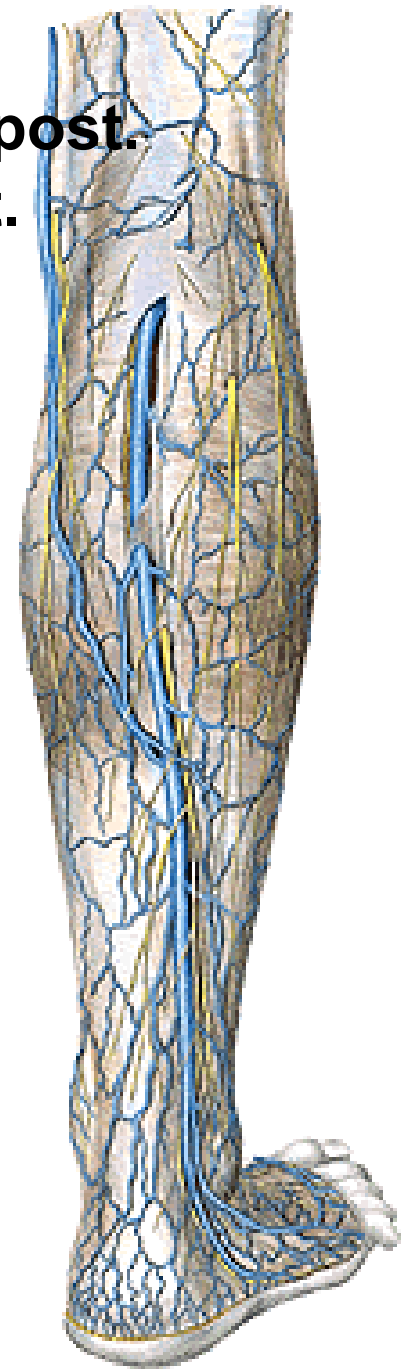
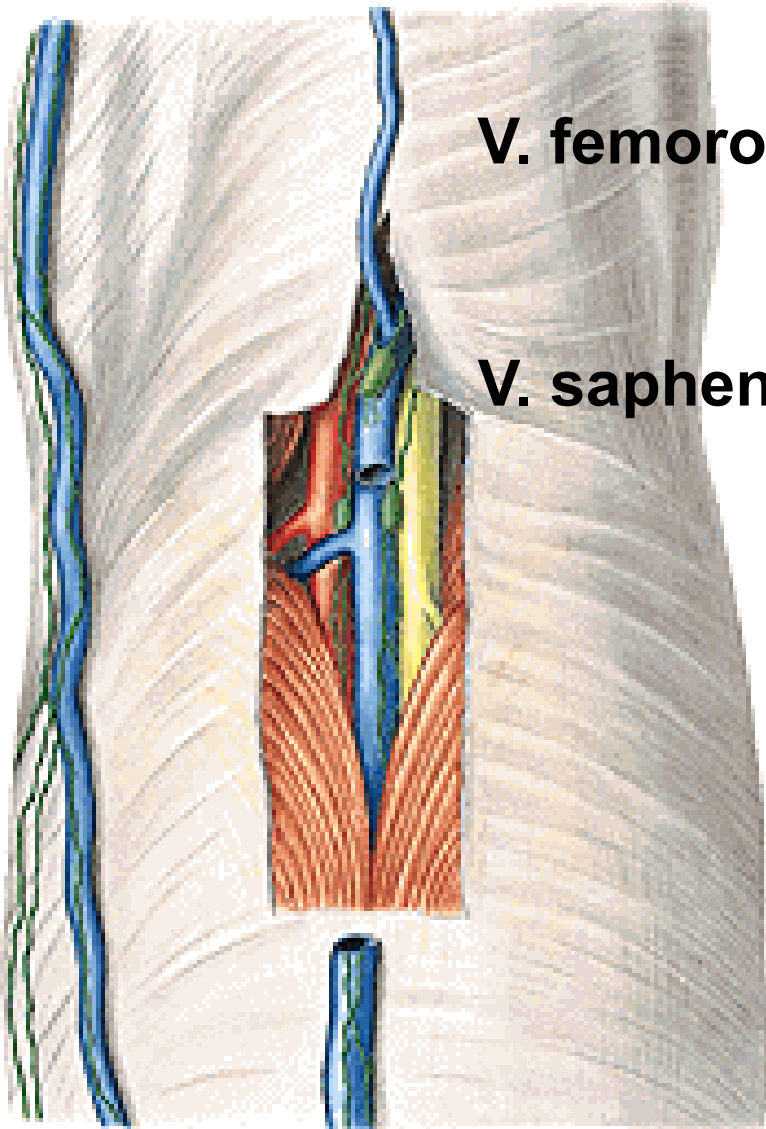
**REGIO GENUS POSTERIOR**

**N. cutaneus femoris post.**  
**N. cutaneus surae lat.**

**V. femoropoplitea**

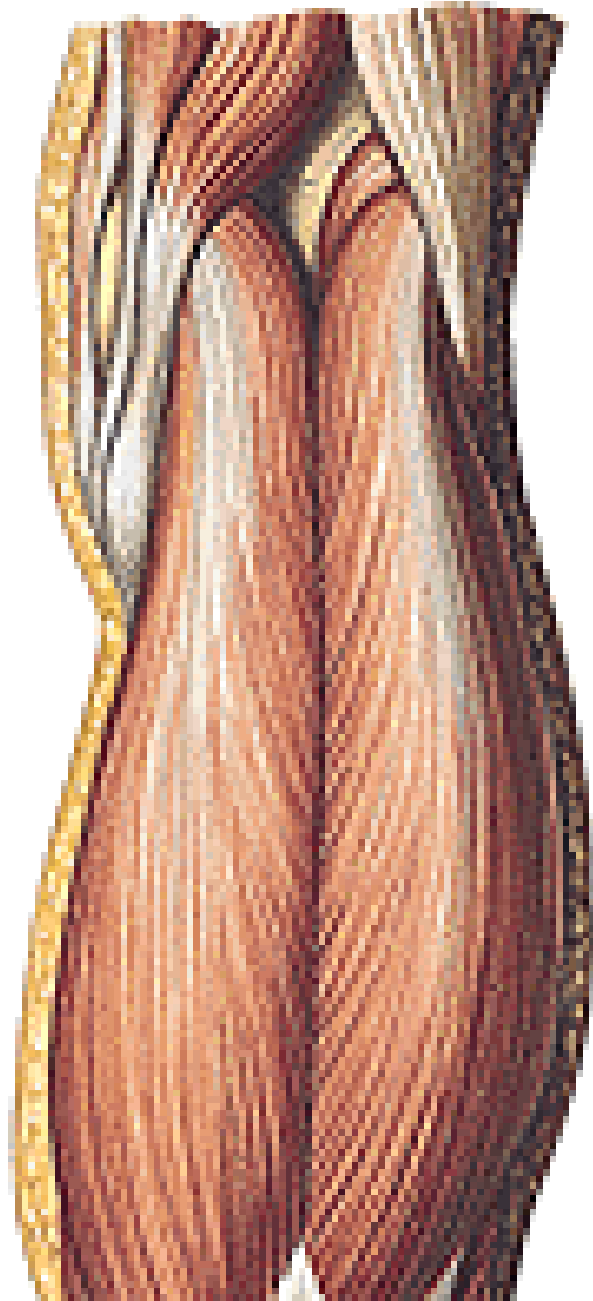
**V. saphena parva**

**Nodi lymph. poplitei**





# Fossa poplitea



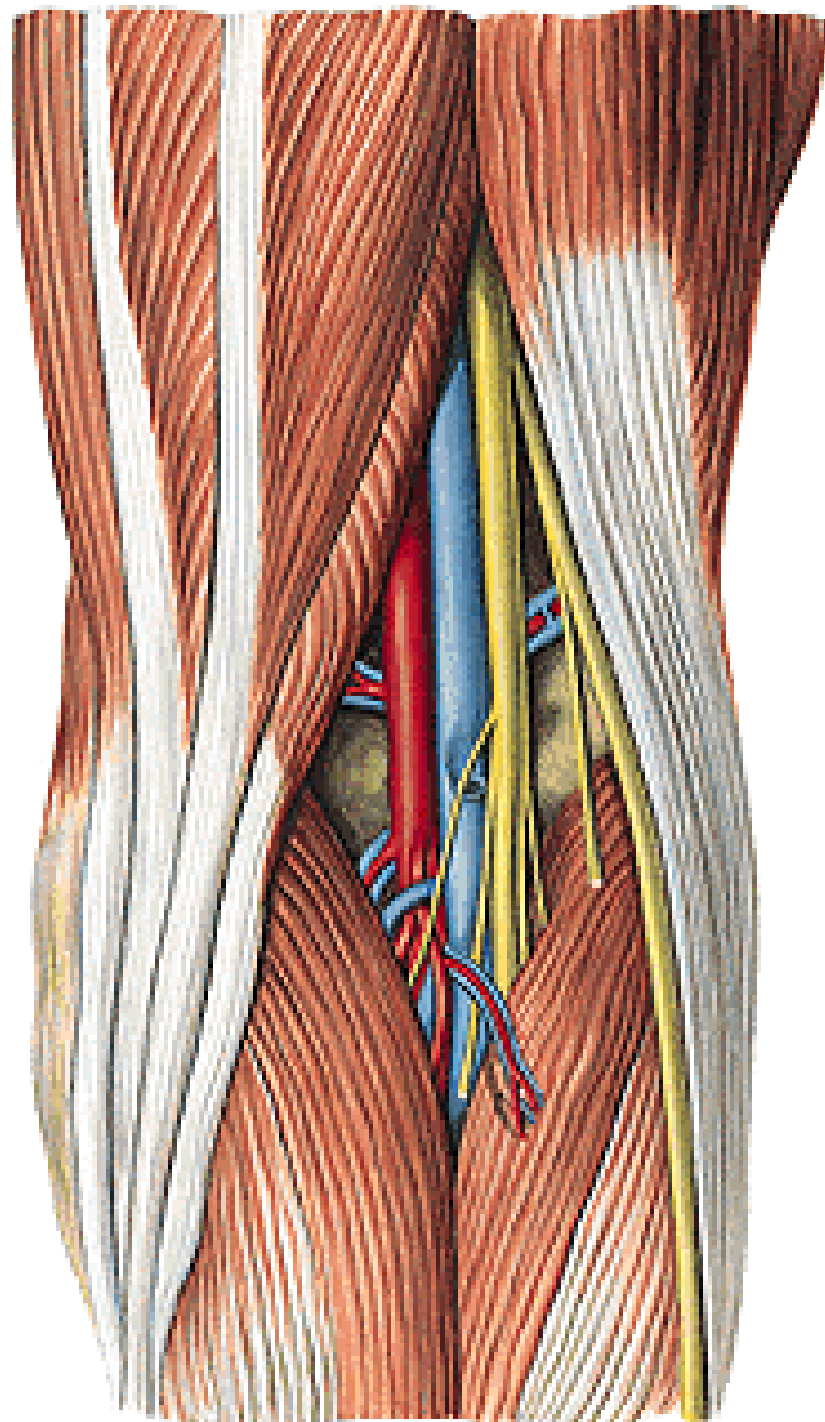
# Fossa poplitea

**A. poplitea**

**V. poplitea**

**N. tibialis**

**N. fibularis comm.**



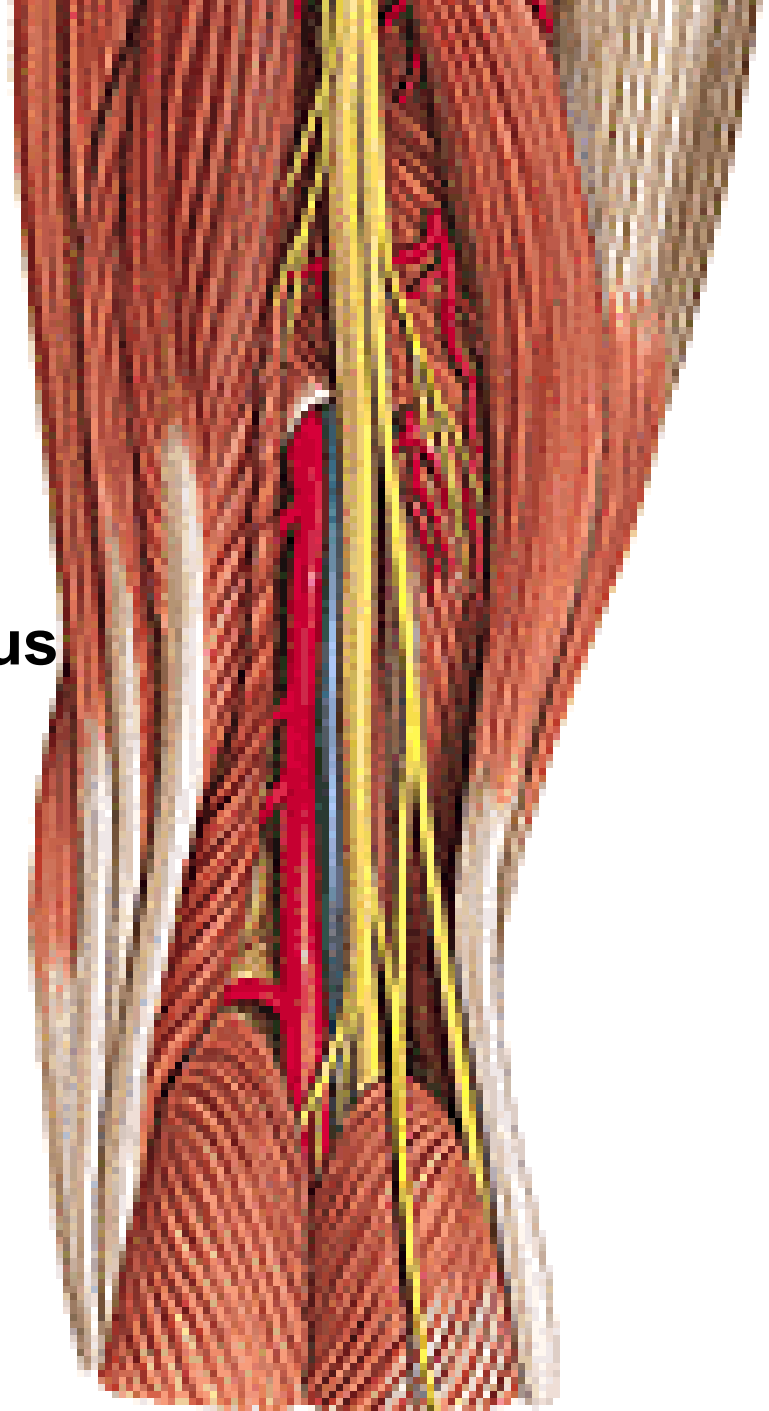
## **N. tibialis**

- n. cutaneus surae med.

## **N. fibularis/peroneus comm.**

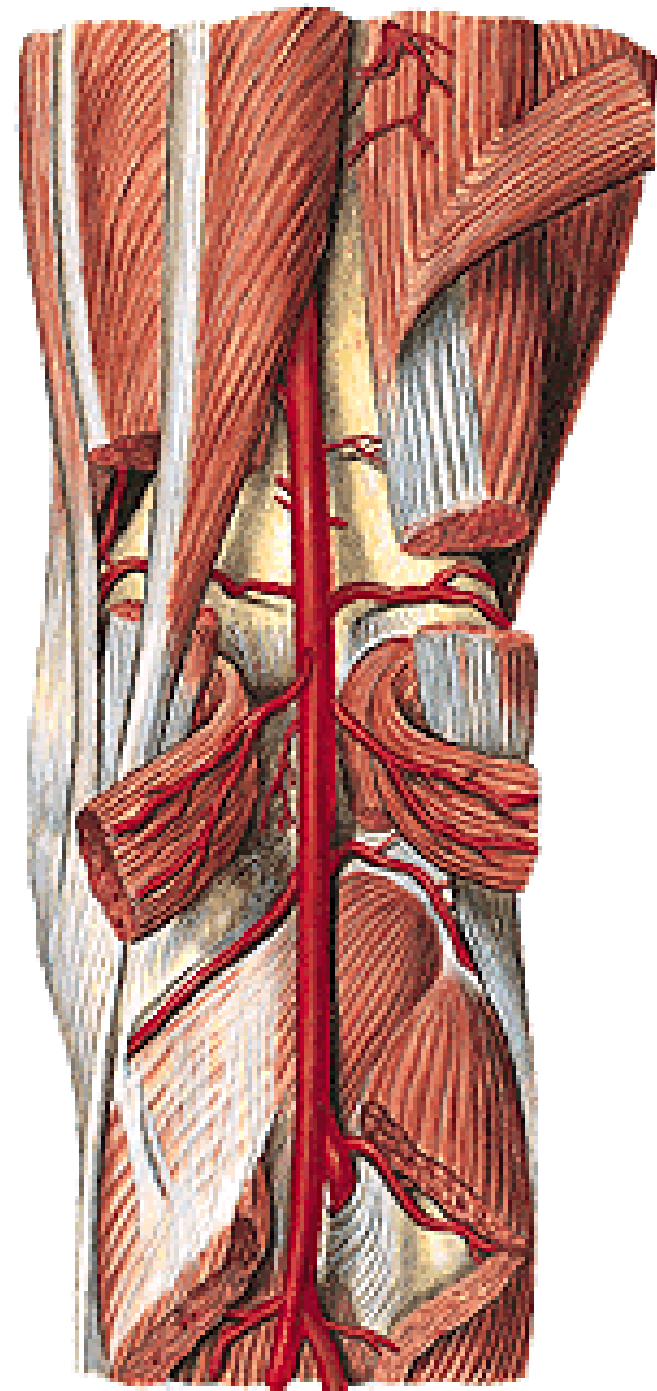
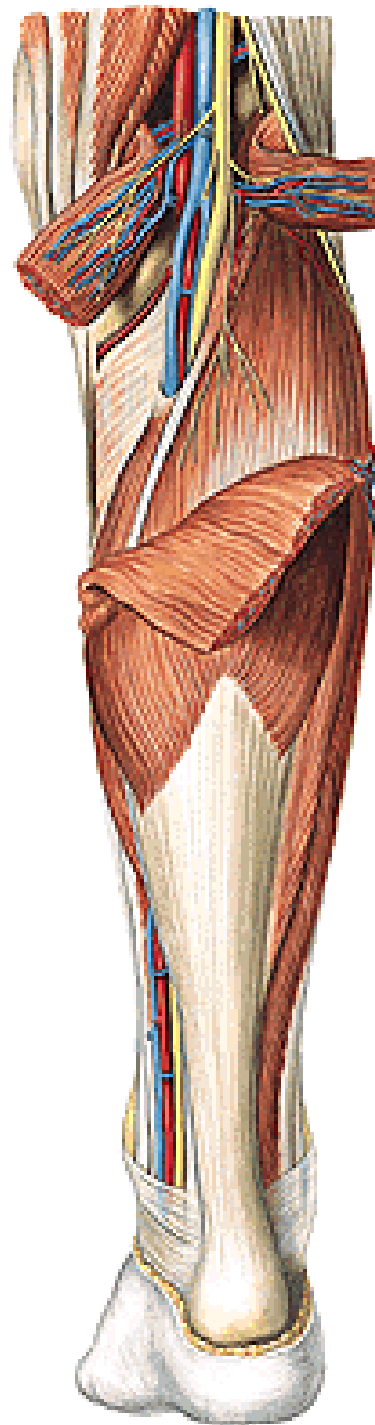
- n. cutaneus surae lat.
- r. communicans fibularis/peroneus

→ n. suralis



## A. poplitea

- aa. surales
- a. genus sup. med.
- a. genus sup. lat.
- a. genus media
- a. genus inf. med.
- a. genus inf. lat.
- a. tibialis post.
- a. tibialis ant.

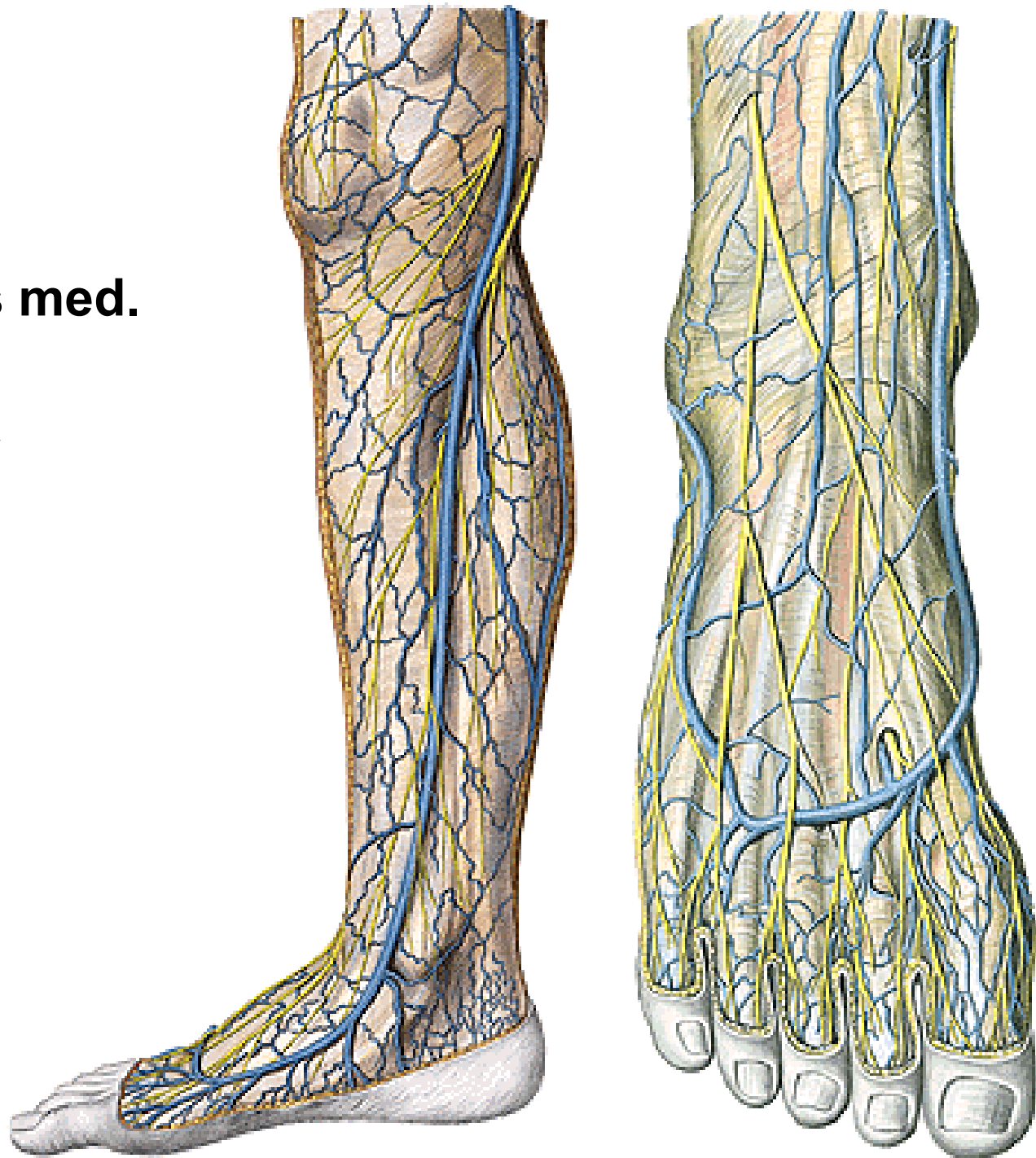


# **REGIO CRURIS ANTERIOR**

**N. saphenus**  
- r. infrapatellaris  
- rr. cutanei cruris med.

**V. saphena magna**

**N. fibularis spf.**



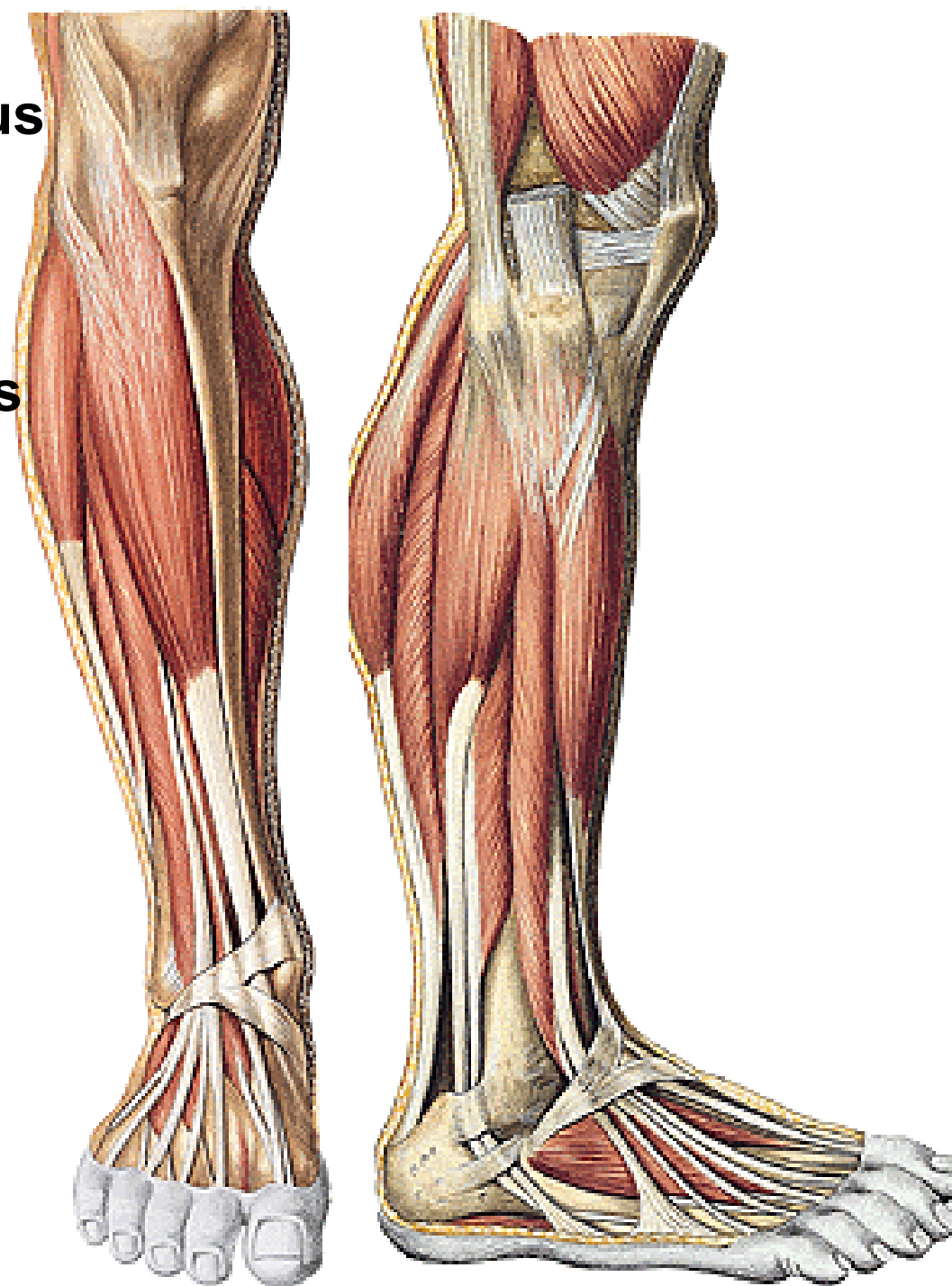
**M. tibialis ant.**

**M. extensor digitorum longus  
(M. fibularis/per. tertius)**

**M. extensor hallucis longus**

**M. fibularis/peroneus longus**

**M. fibularis/peroneus brevis**

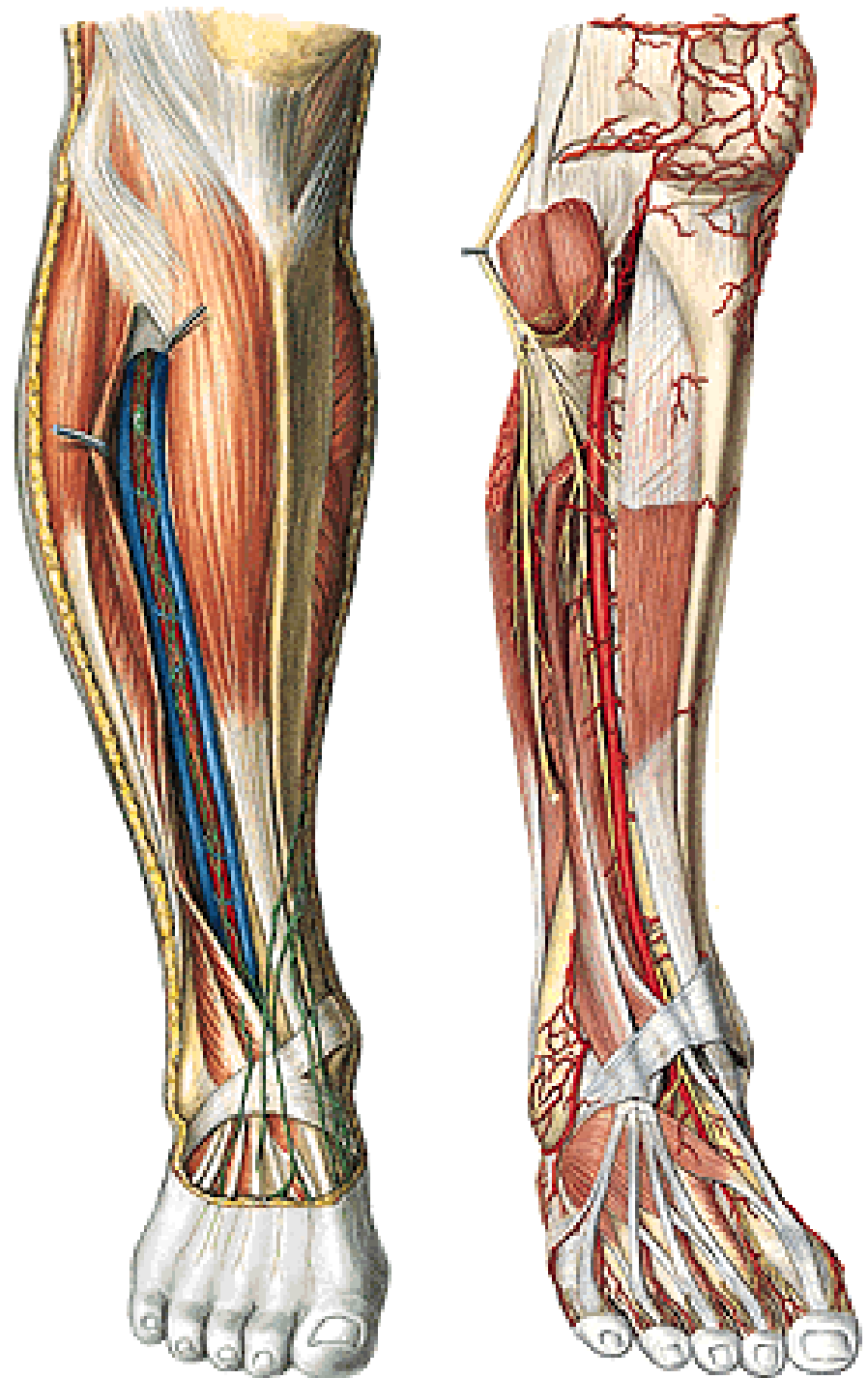


**N. fibularis comm.**

- n. fibularis prof.
- n. fibularis spf.

**A. tibialis ant.:**

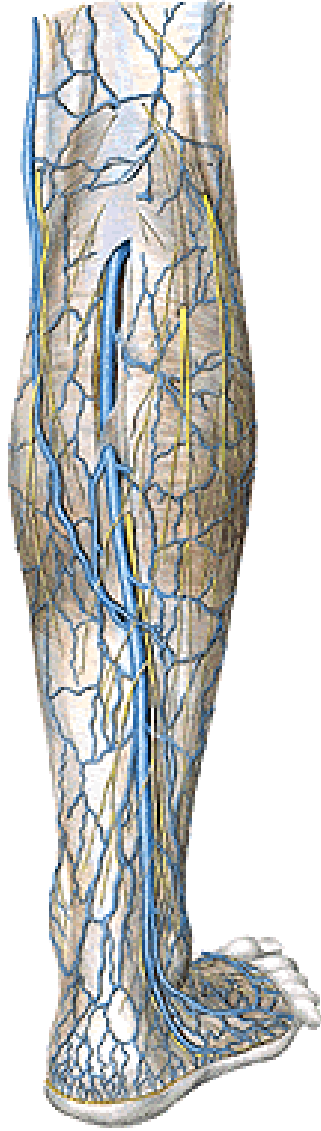
- a. recurrens tibialis post.
- a. recurrens tibialis ant.
- rr. musculares
- a. malleolaris ant. med.
- a. malleolaris ant. lat.
- a. dorsalis pedis



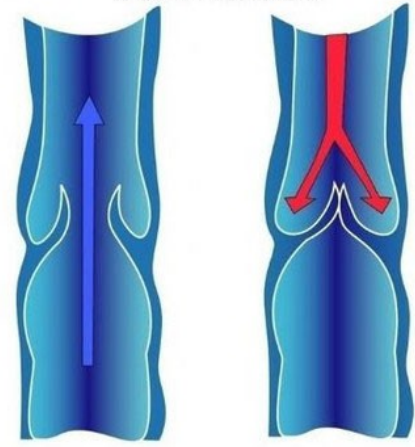


# **REGIO CRURIS POSTERIOR**

**V. saphena parva**  
**N. suralis**  
**N. cutaneus surae lat.**



**Normal One-Way  
Vein Valves**



Blood flowing  
to heart

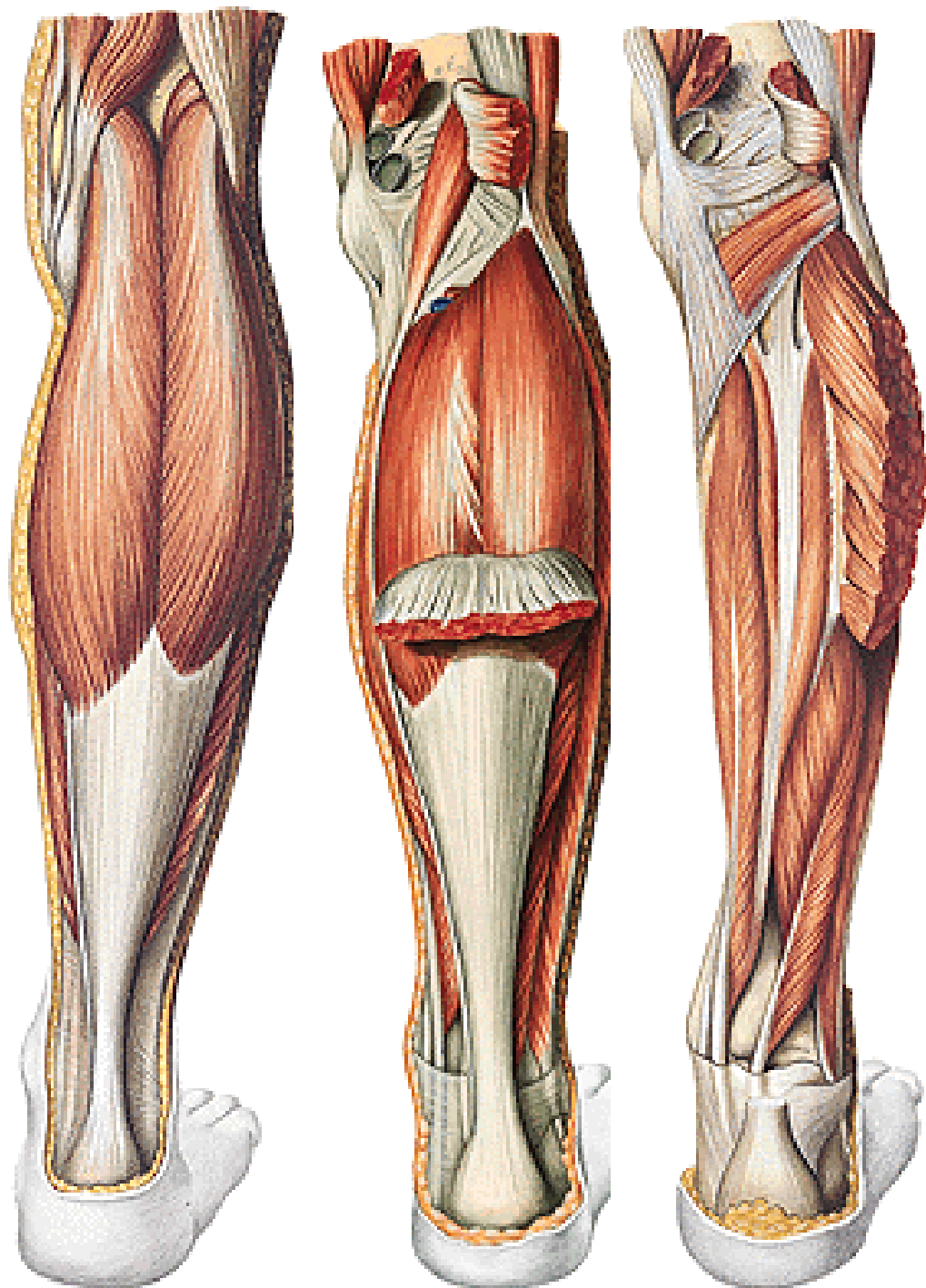
Healthy valve  
prevents reverse  
blood flow

**M. triceps surae**  
- m. gastrocnemius  
- caput lat.  
- caput med.  
- m. soleus

**Arcus tendineus m. solei**

**M. plantaris**  
**M. popliteus**

**M. flexor hallucis longus**  
**M. flexor digitorum longus**  
**M. tibialis post.**



## **A. tibialis post.**

- rr. musculares
- r. circumflexus fibulae
- a. fibularis
- rr. malleolares med.
- rr. calcaneares
- a. plantaris med. et lat.

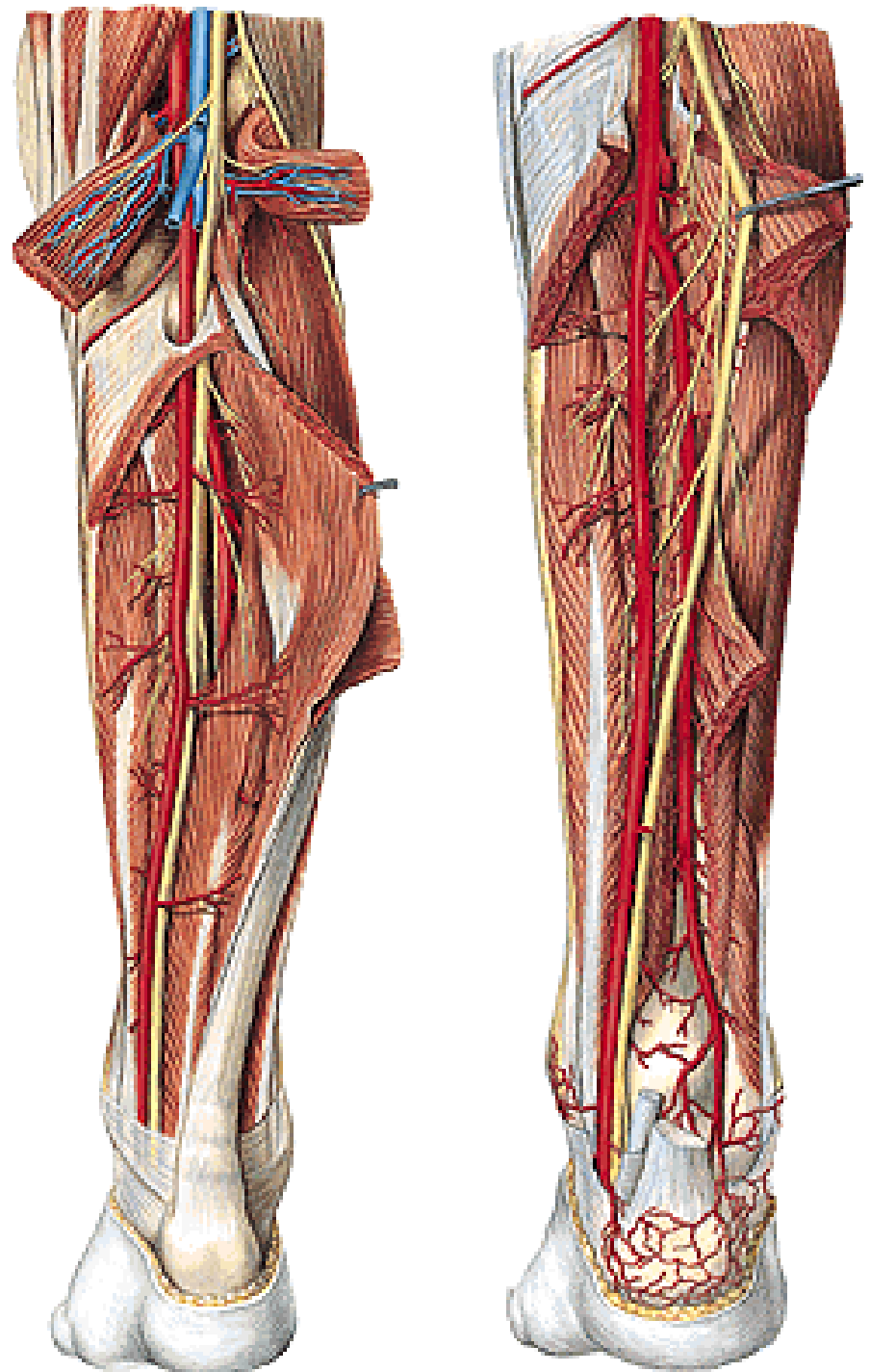
## **A. fibularis/peronea (canalis musculofibularis)**

- rr. musculares
- r. perforans
- rr. malleolares lat.
- rr. calcaneares

**Rete malleolare med. et lat.**

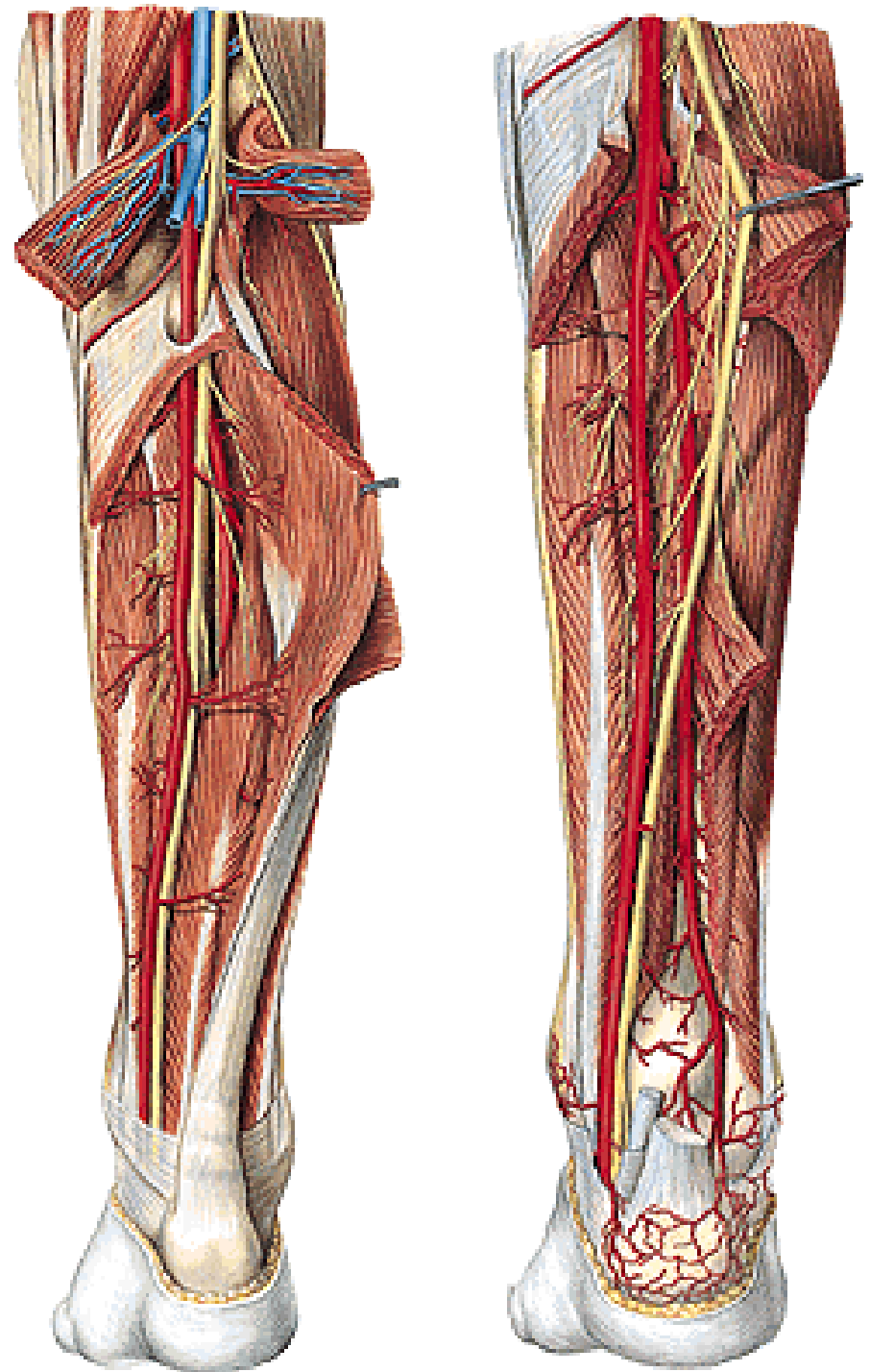
**Rete calcaneare**

**Retinaculum flexorum**



## **N. tibialis**

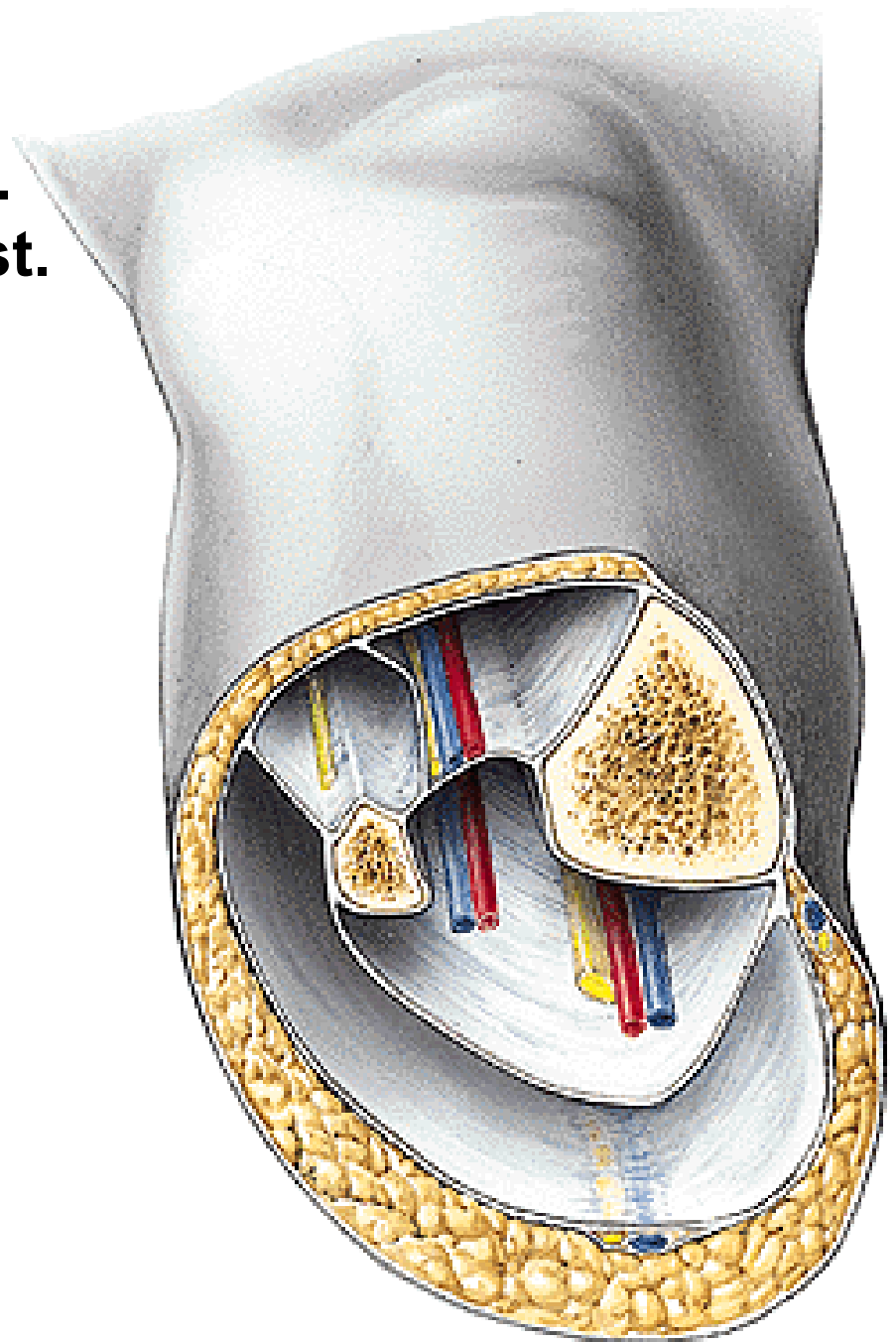
- rr. musculares
- n. interosseus cruris
- n. cutaneus surae med.
- rr. calcanei med.
- n. plantaris med. et lat.



**Fascia cruris**

**Septum intermusculare ant.**

**Septum intermusculare post.**

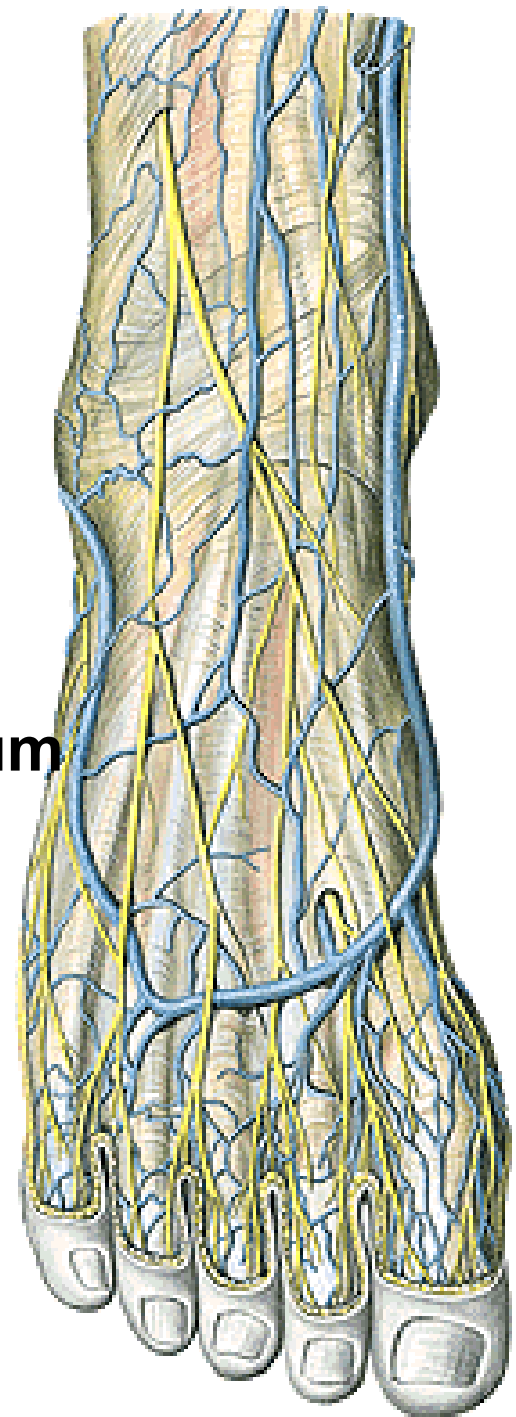


# **DORSUM PEDIS**

**Rete venosum dorsale pedis**  
**- v. marginalis med. et lat.**

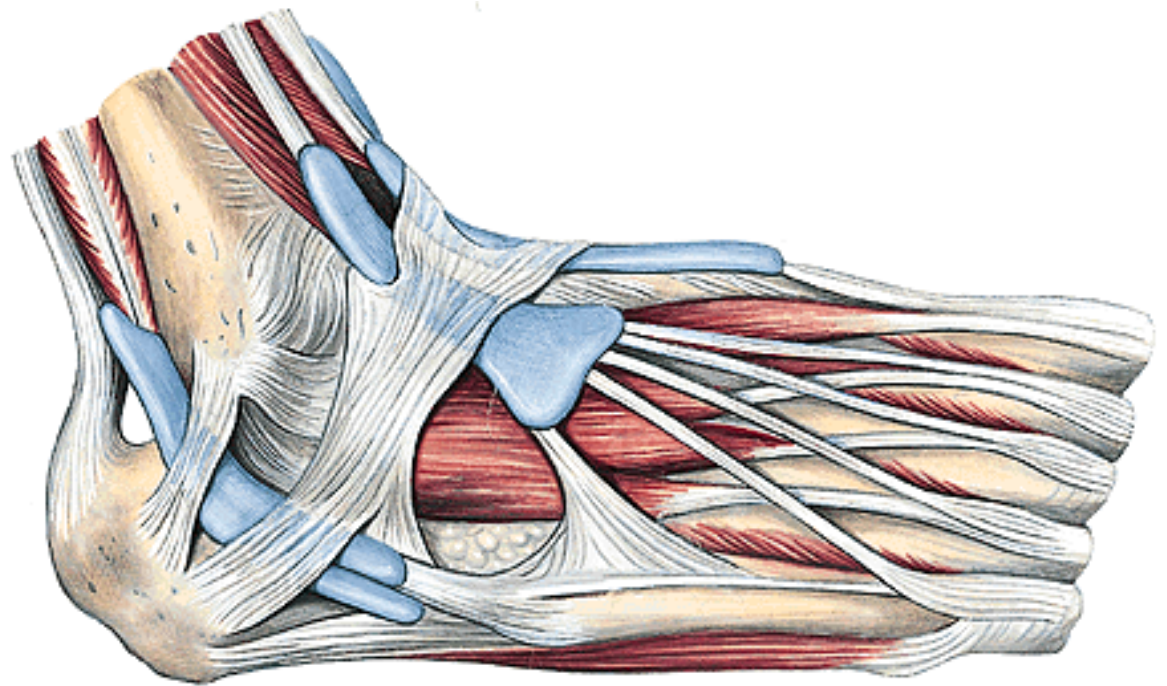
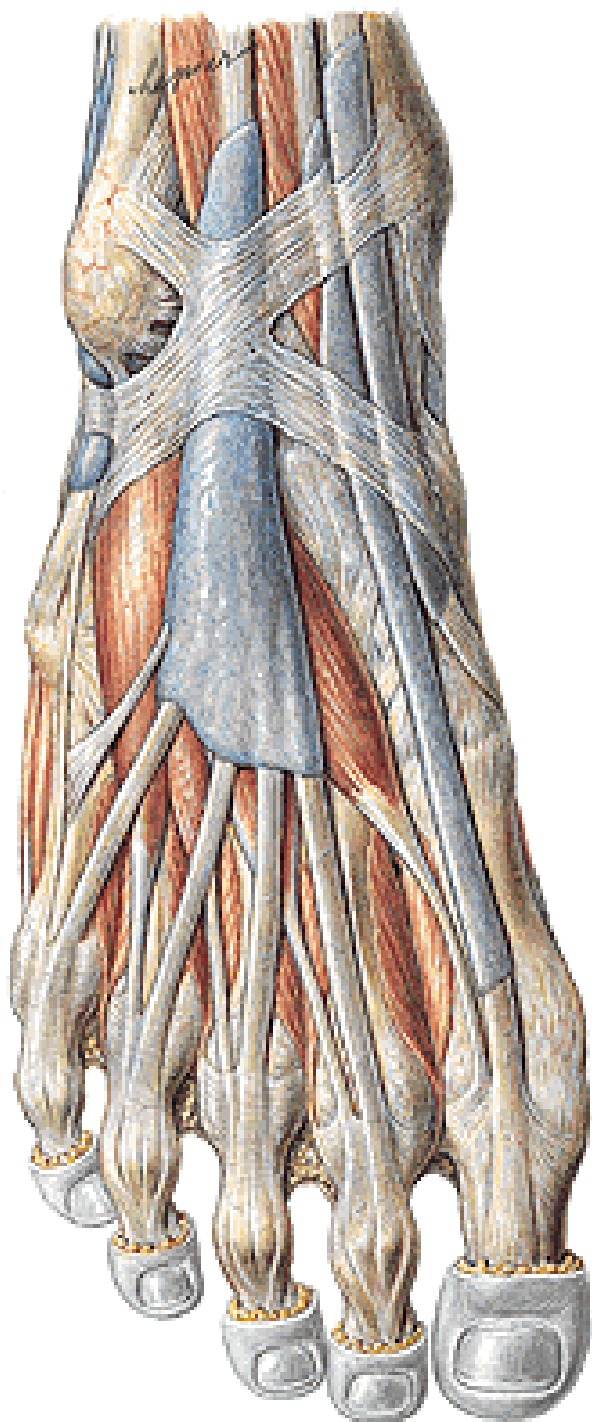
**N. cutaneus dorsalis medialis**  
**et intermedius (n. fibularis/per. spf.)**  
**N. cutaneus dorsalis lat. (n. suralis)**

**Retinaculum (musculorum) extensorum**  
**sup. et inf.**





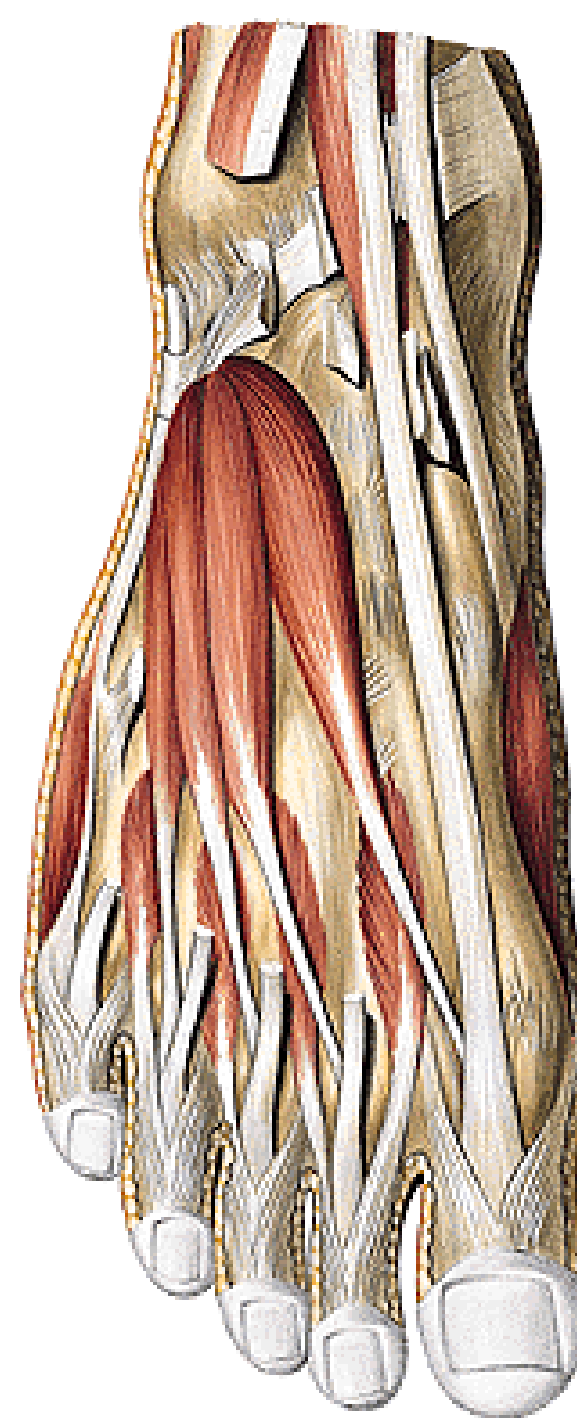
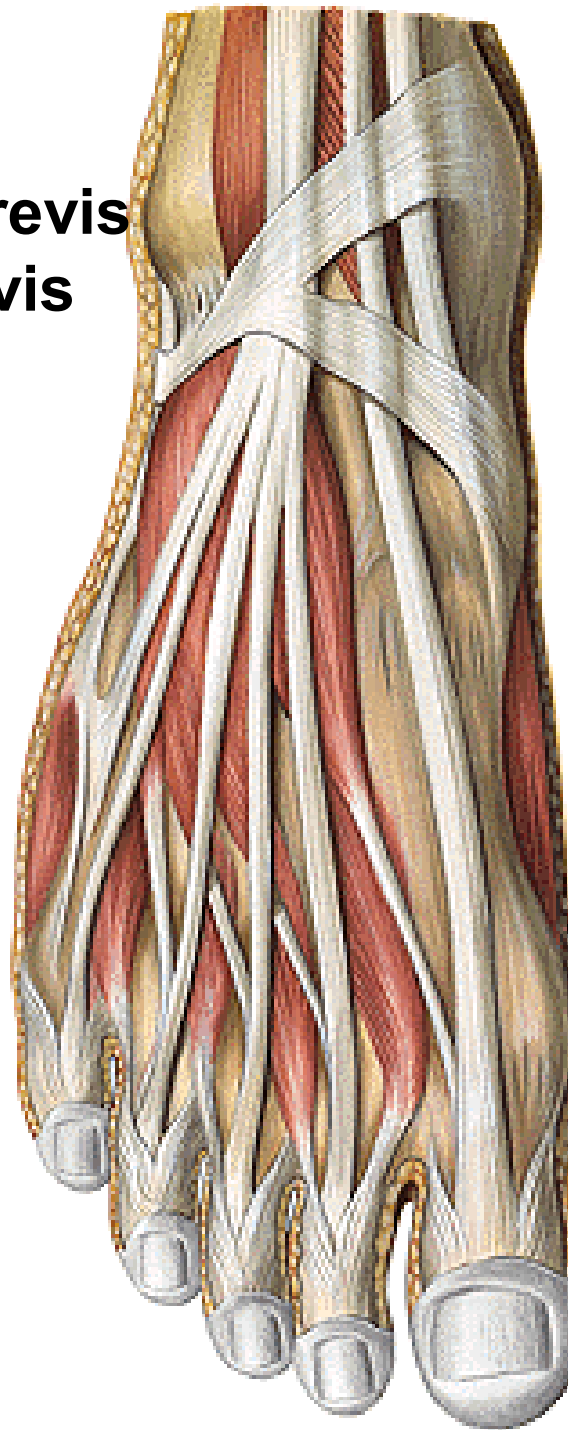
**Retinaculum (musculorum) fibularium  
sup. et inf.**



**M. extensor digitorum brevis**

**M. extensor hallucis brevis**

**Mm. interossei dorsales**

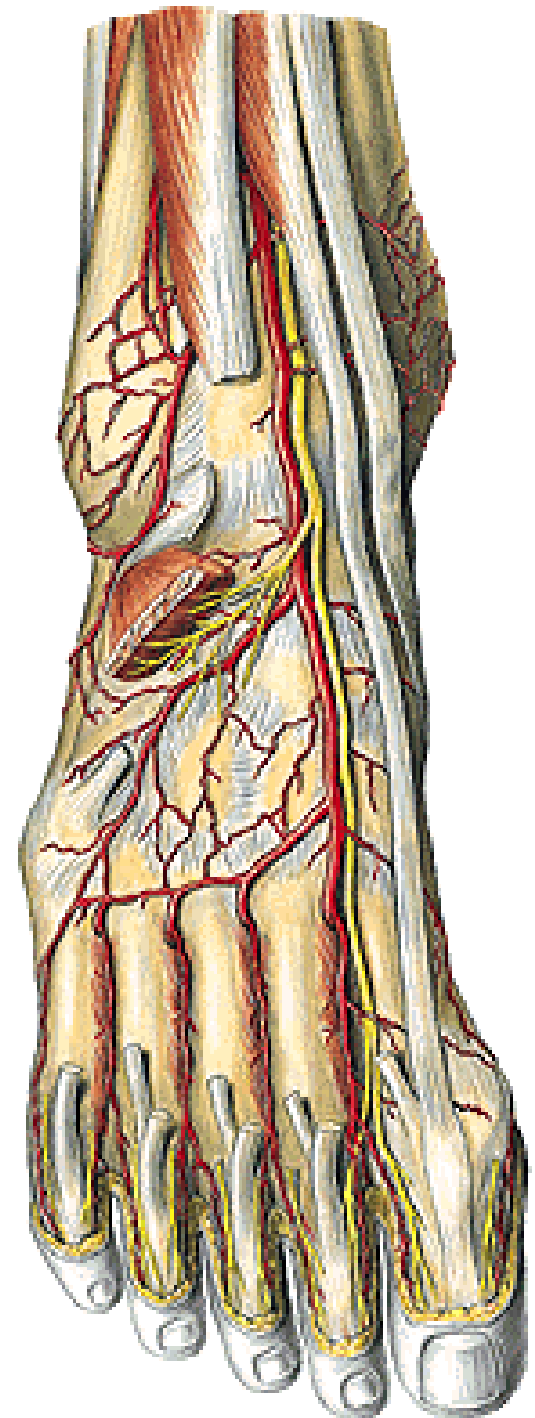


## **A. dorsalis pedis**

- a. tarsalis lat.
- aa. tarsales med.
- a. arcuata
  - aa. metatarsae dorsales
  - aa. digitales dorsales
- r. plantaris prof.

## **N. fibularis/per. prof.**

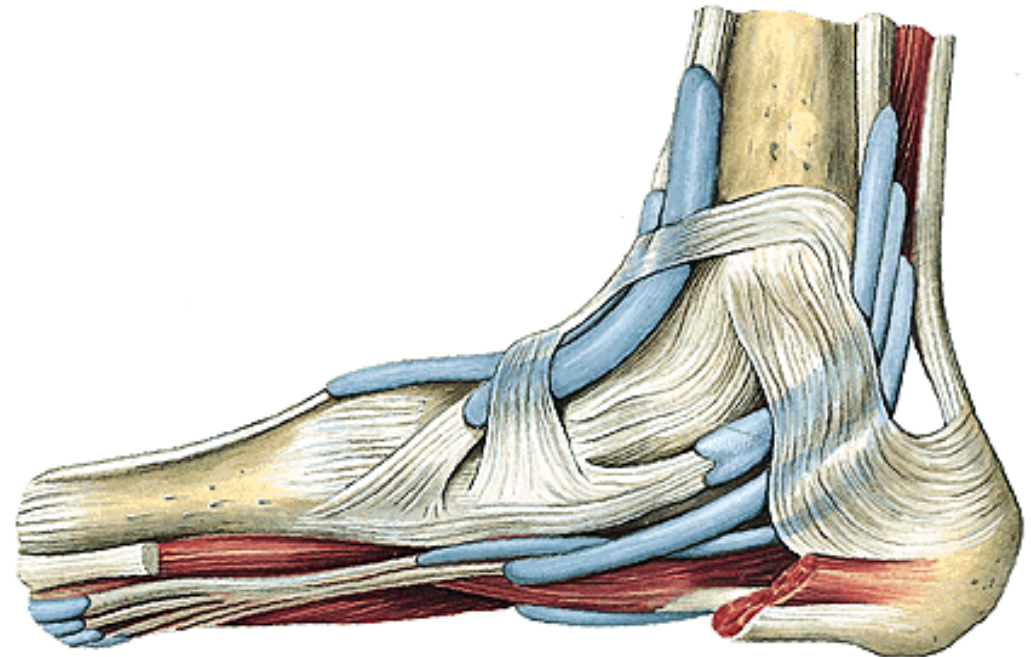
- rr. musculares
- nn. digitales dorsales



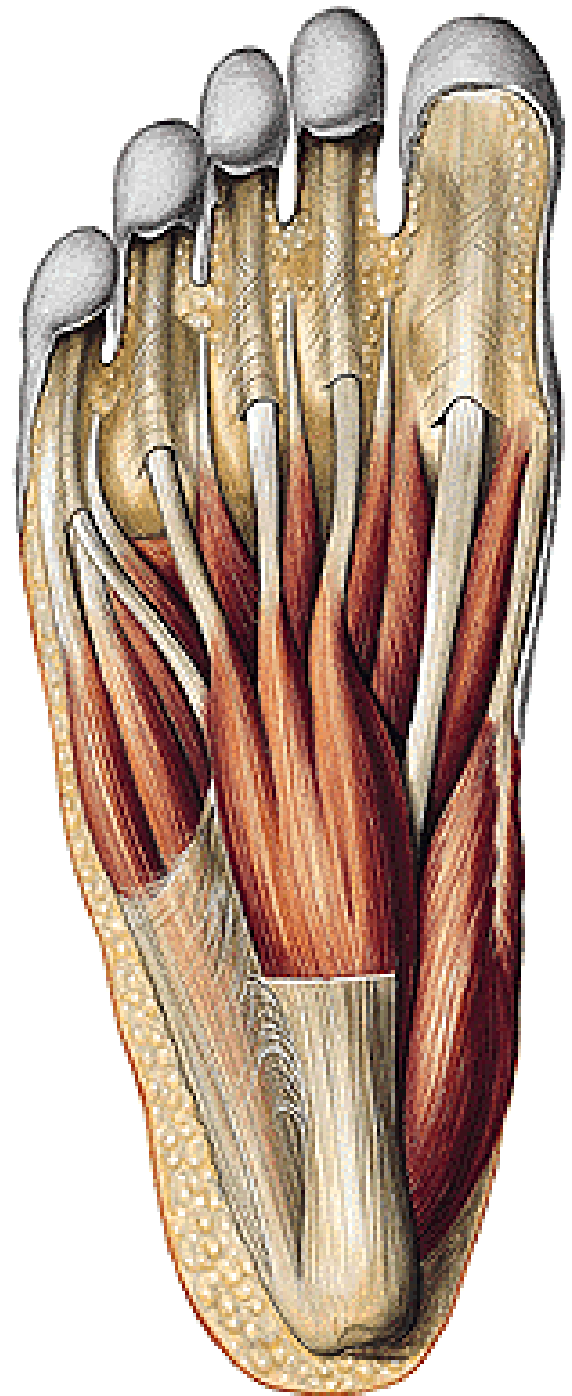
# **PLANTA PEDIS**



**Fascia plantae**  
**Aponeurosis plantaris**  
**Retinaculum (musculorum) flexorum**



**M. abductor hallucis**  
**M. flexor digitorum brevis**  
**M. abductor digiti minimi**

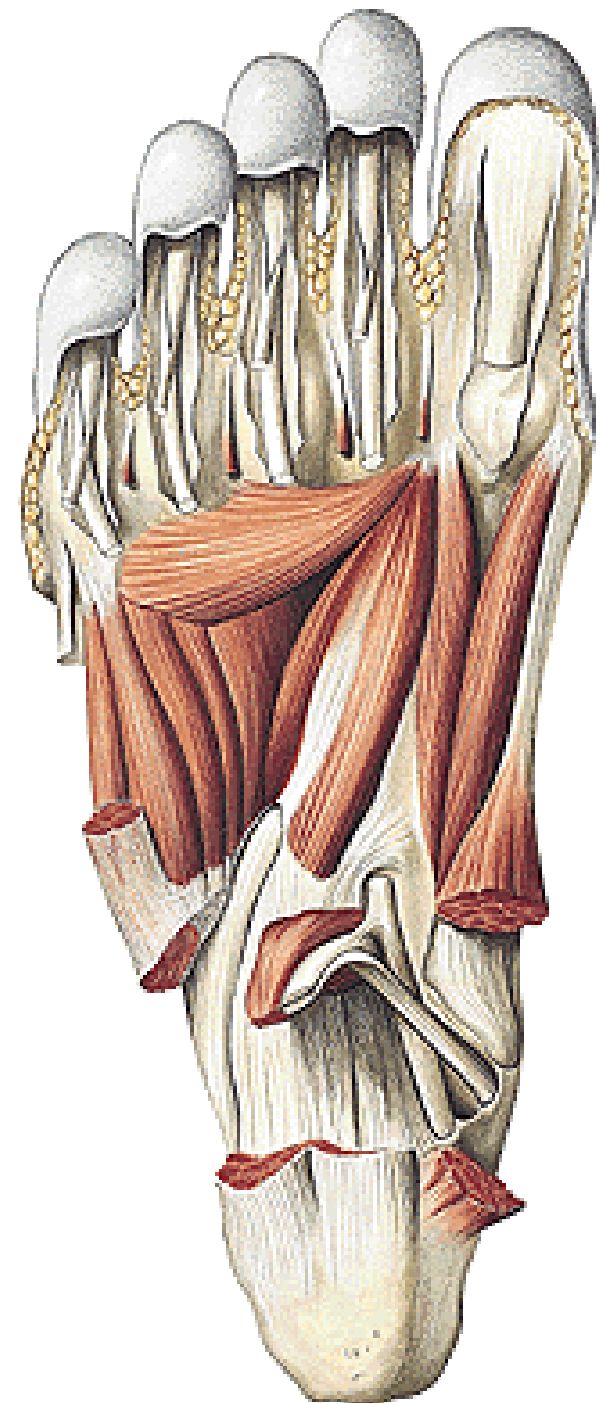


**M. quadratus plantae**  
**Mm. lumbricales I.-IV.**

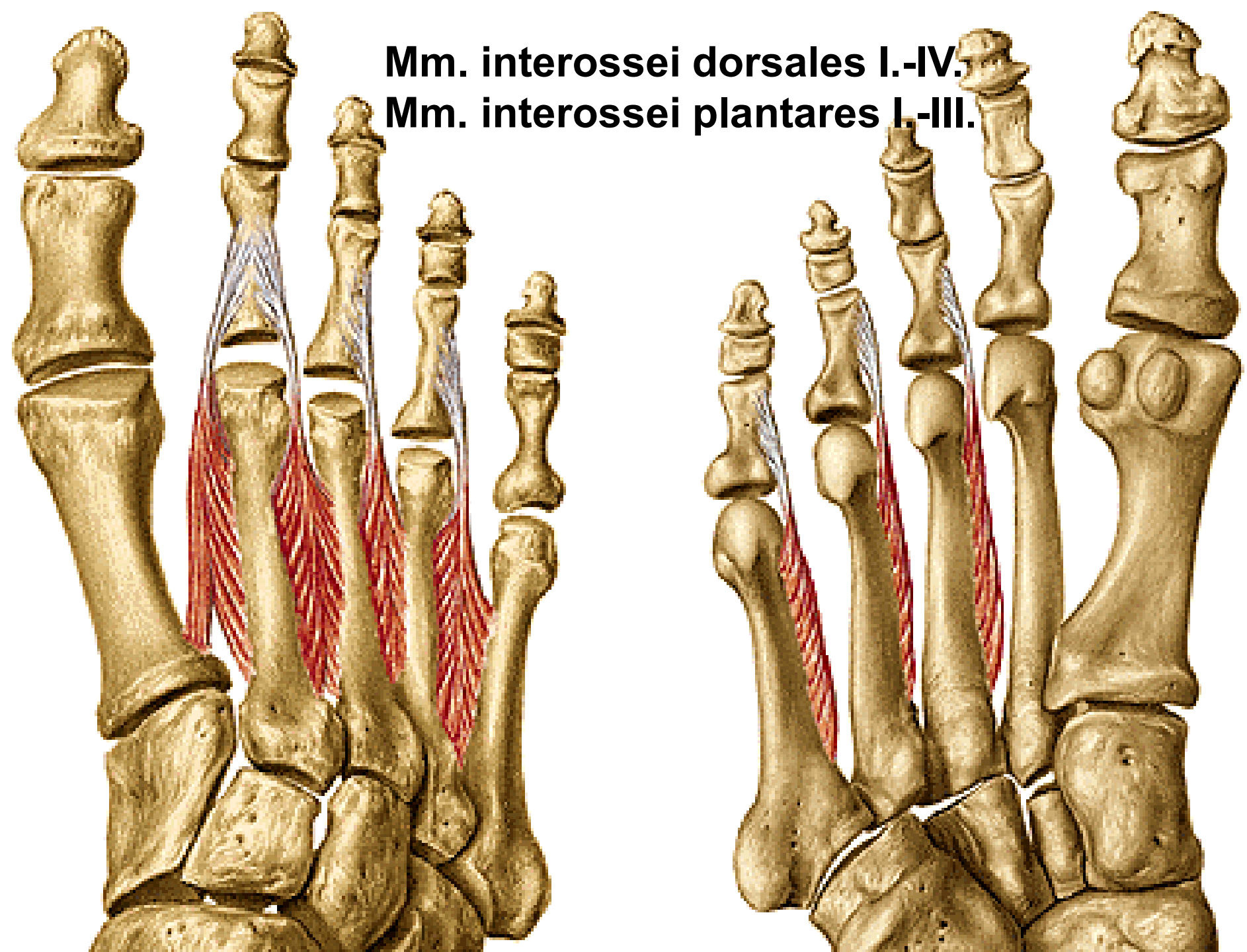
**M. flexor hallucis brevis**  
- caput mediale  
- caput laterale

**M. adductor hallucis**  
- caput obliquum  
- caput transversum

**M. flexor digiti minimi brevis**  
**M. opponens digiti minimi**



**Mm. interossei dorsales I.-IV.**  
**Mm. interossei plantares I.-III.**



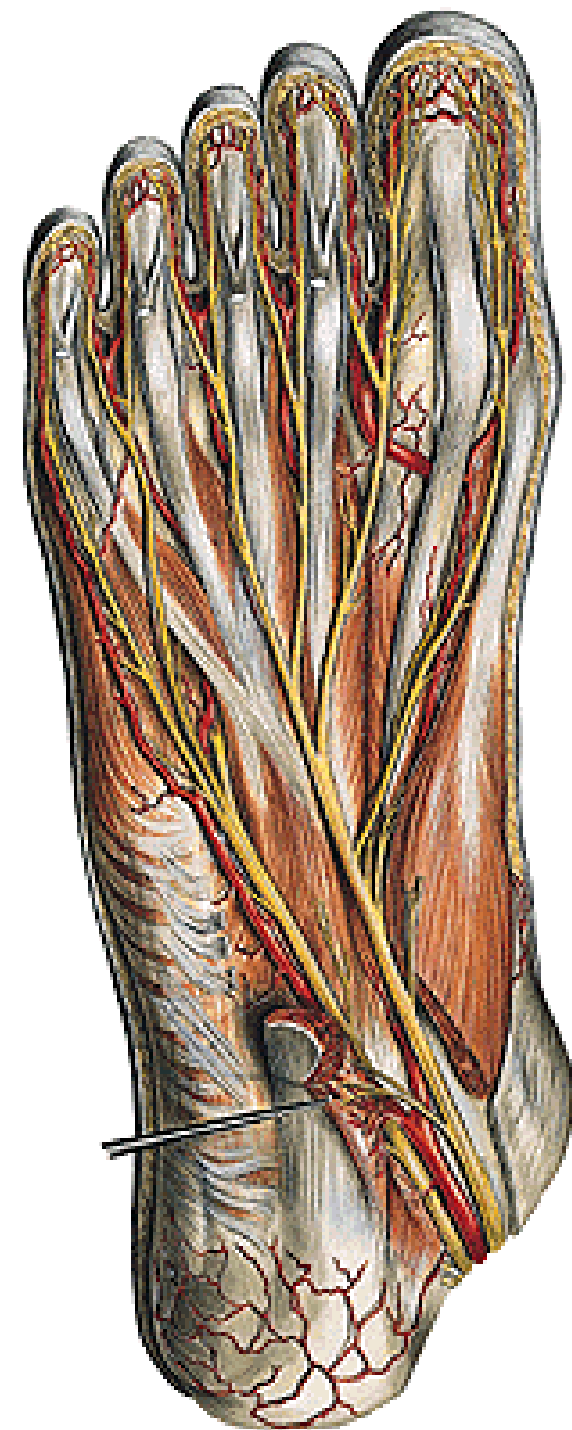
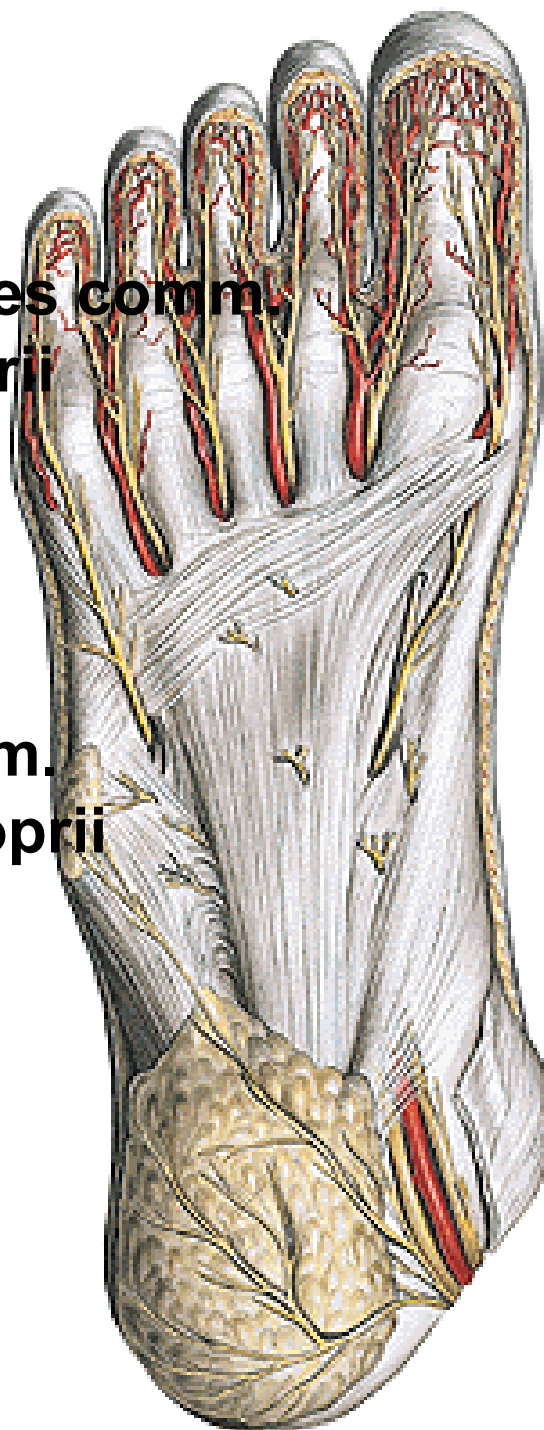


## **N. plantaris med.**

- rr. musculares
- nn. digitales plantares comm.
- nn. dig. plant. proprii

## **N. plantaris lat.**

- rr. musculares
- r. spf.
- nn. dig. plant. comm.
- nn. dig. plant. proprii
- r. prof.

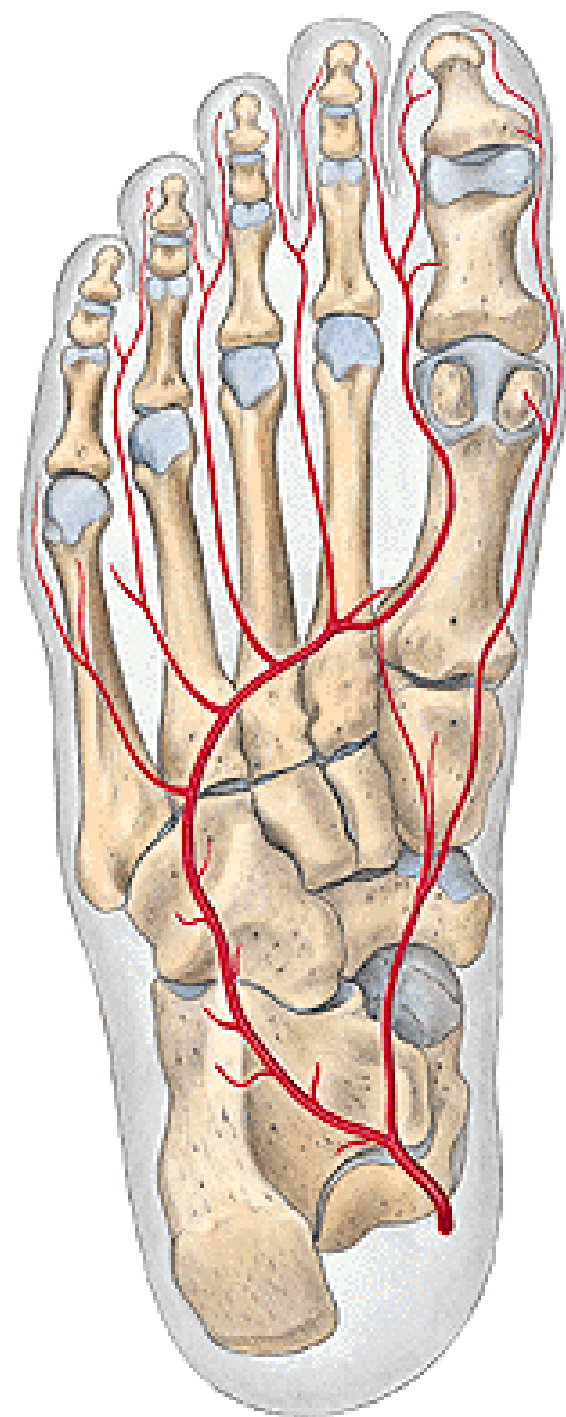
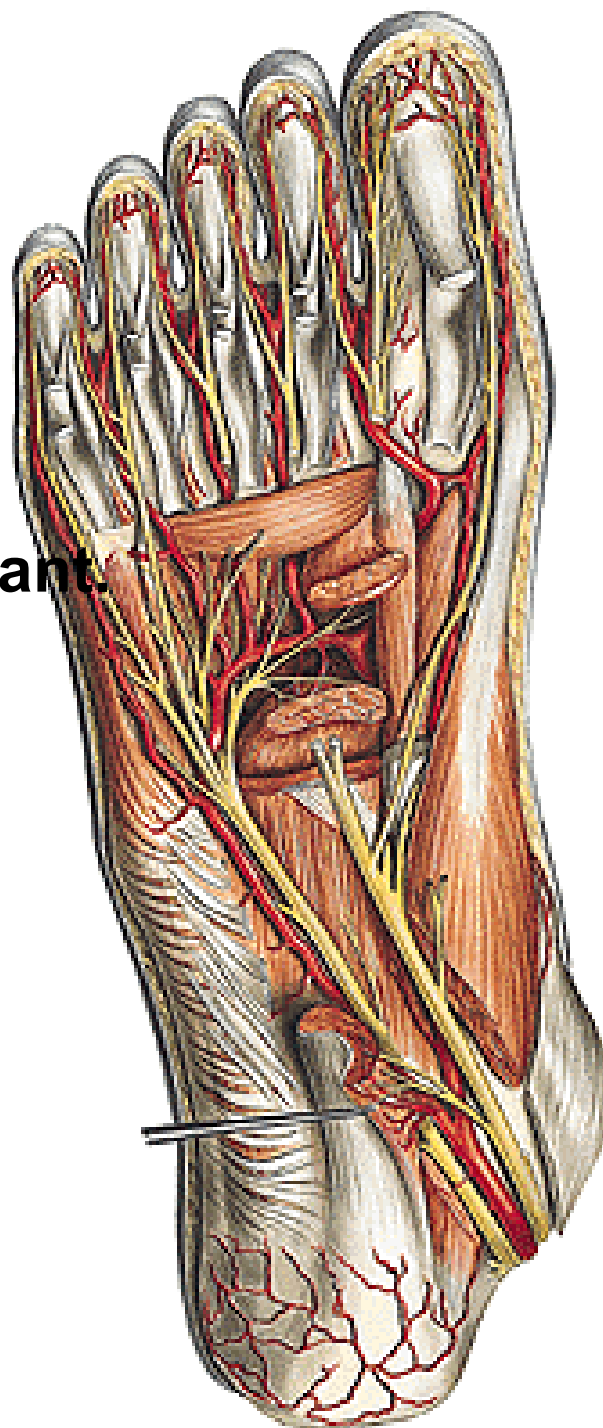


**A. plantaris med.**

- r. spf.
- r. prof.

**A. plantaris lat.**

- arcus plantaris
- aa. metatarsae plant.
- aa. dig. plantares



Illustrations were copied from:

**Atlas der Anatomie des Menschen/Sobotta.  
Putz,R., und Pabst,R. 20. Auflage. München:  
Urban & Schwarzenberg, 1993)**