

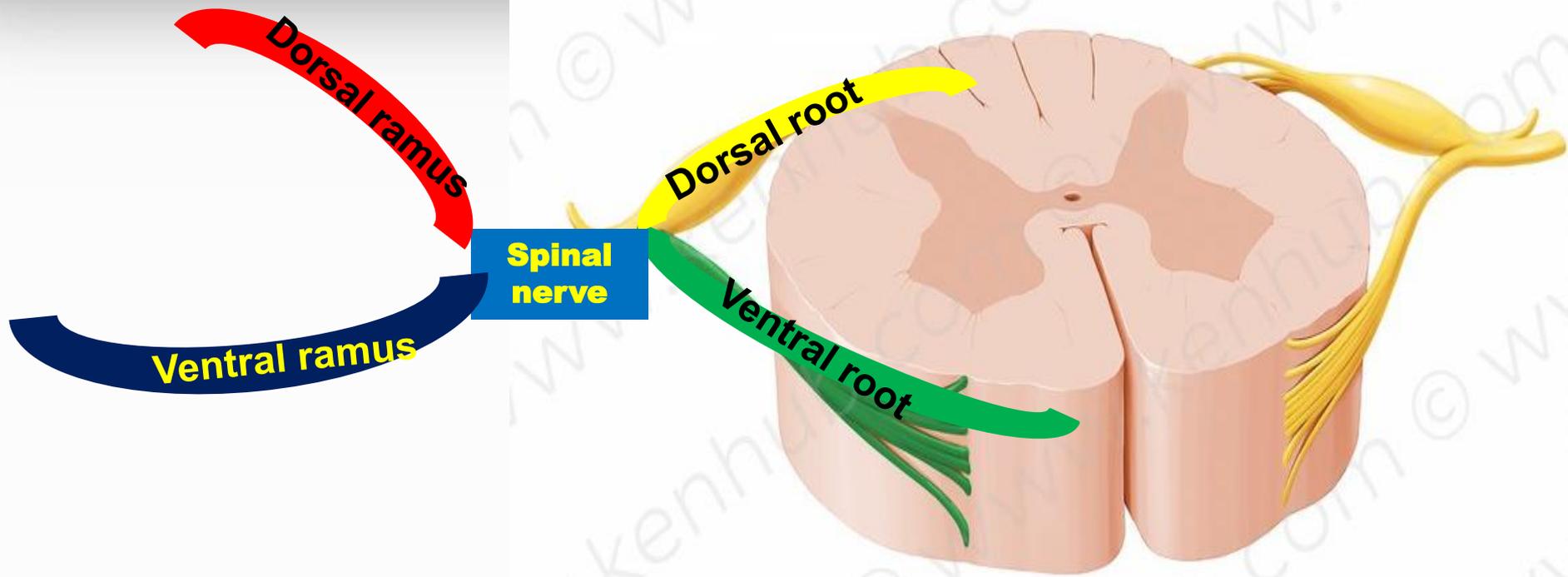
Lower limb Nerves

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LEARNING OBJECTIVES

- 1-Identify lumbar plexus formation
- 2- Know lumbar plexus branches
- 3- Discuss sacral plexus formation
- 4- Enumerate sacral plexus branches



Dorsal root (sensory)

Dorsal root ganglion

Somatic sensory neuron

Visceral sensory neuron

Visceral motor neuron

Somatic motor neuron

Spinal nerve

Ventral root (motor)

Ventral horn (motor neurons)

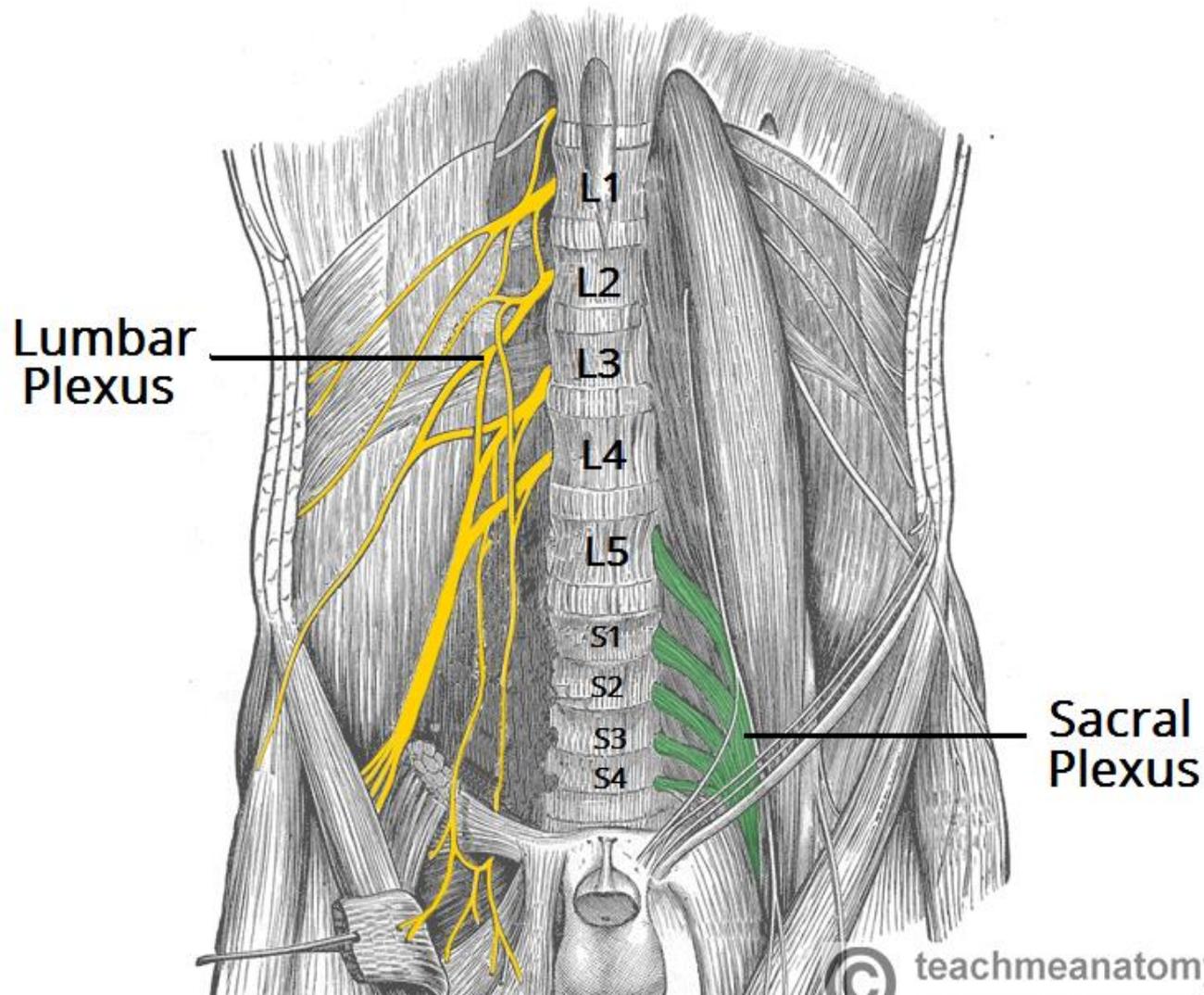
Dorsal horn (interneurons)

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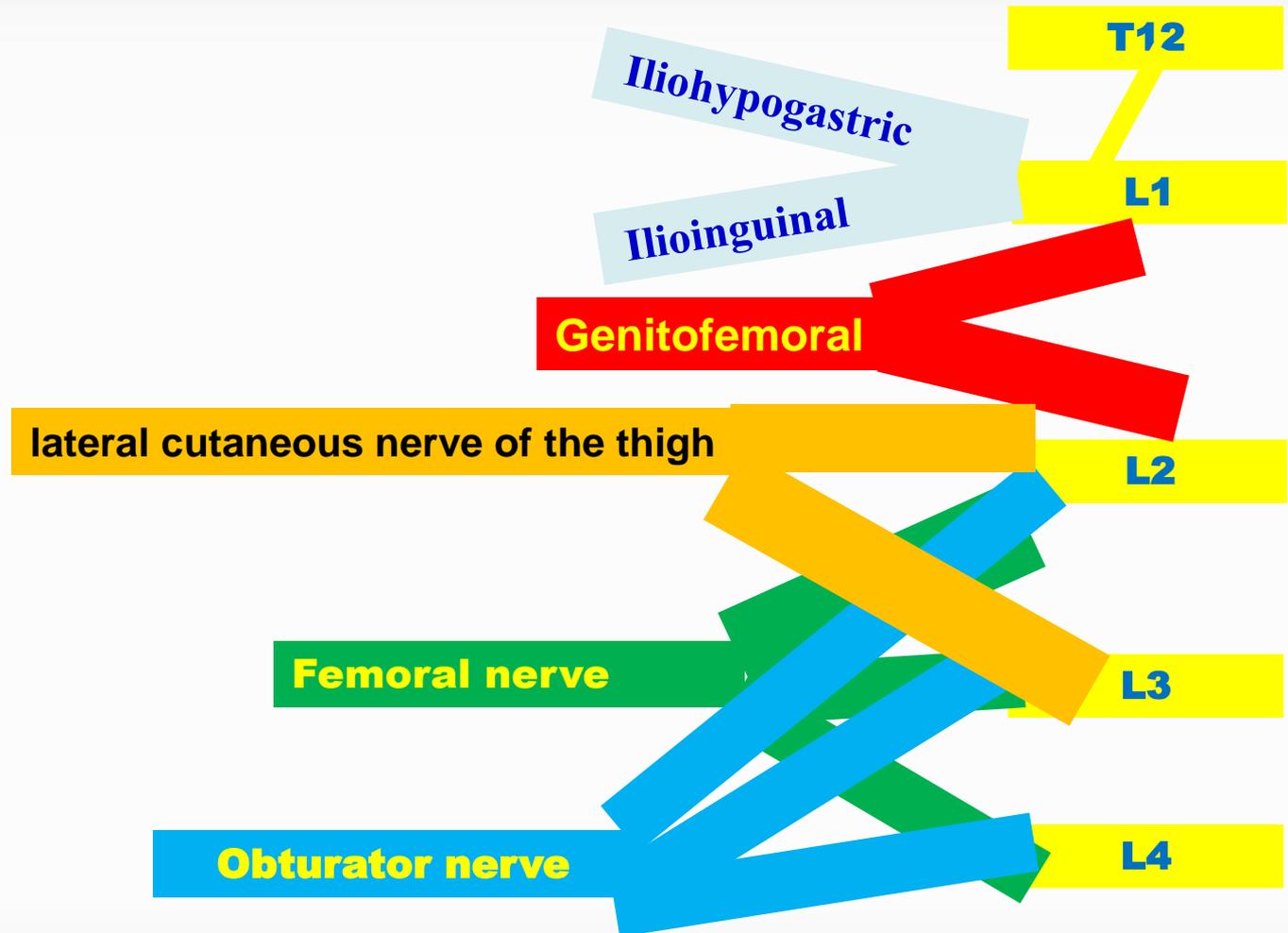
- SS Interneurons receiving input from somatic sensory neurons
- VS Interneurons receiving input from visceral sensory neurons
- VM Visceral motor (autonomic) neurons
- SM Somatic motor neurons

Spinal nerve

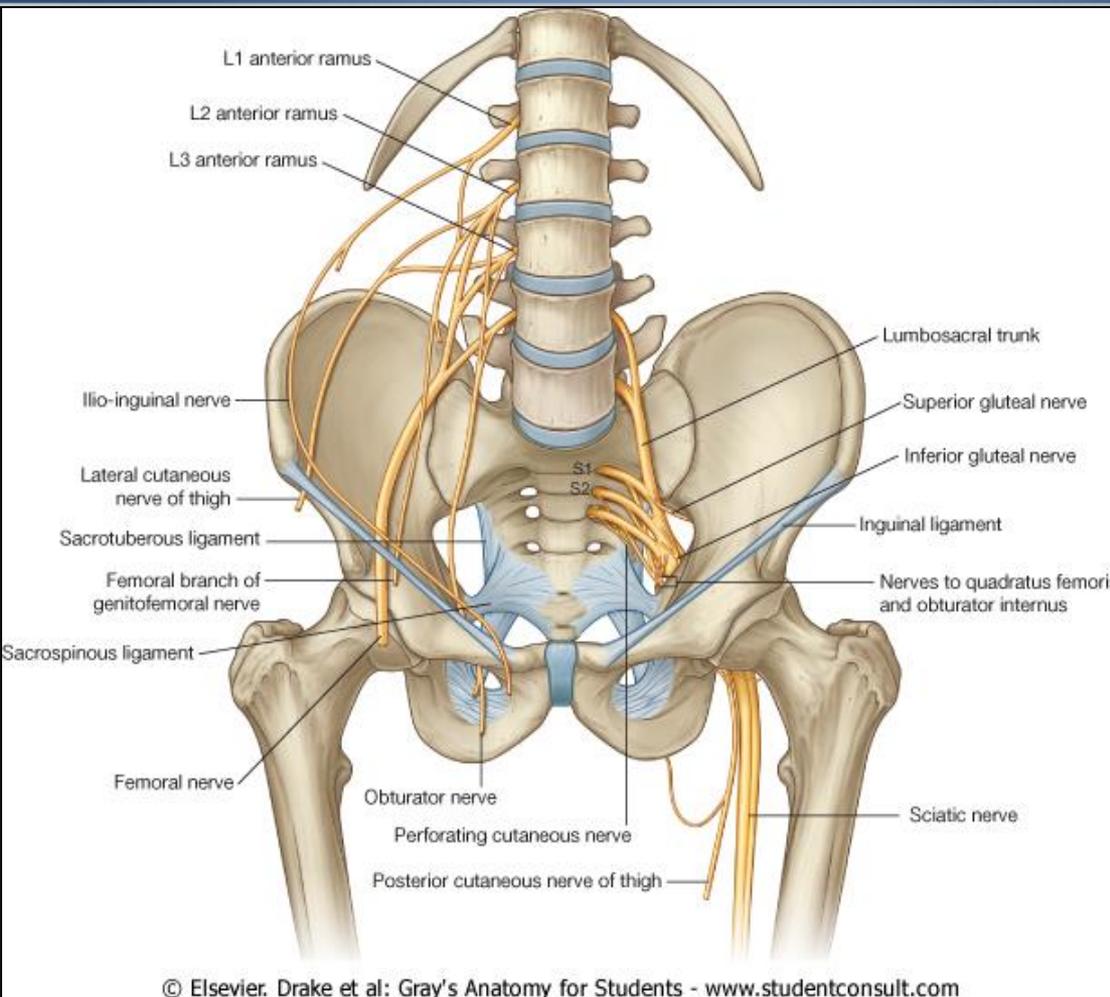
Nerves Of lower limb



Formation of the Lumbar Plexus



1-Lumbar Plexus



- Arises from ventral ramus of L1 - L4
- Lies within the psoas major muscle
- It receive a contribution from T12 (subcostal) nerve

Branches of Lumbar Plexus

1-Ilio-hypogastric (L1)

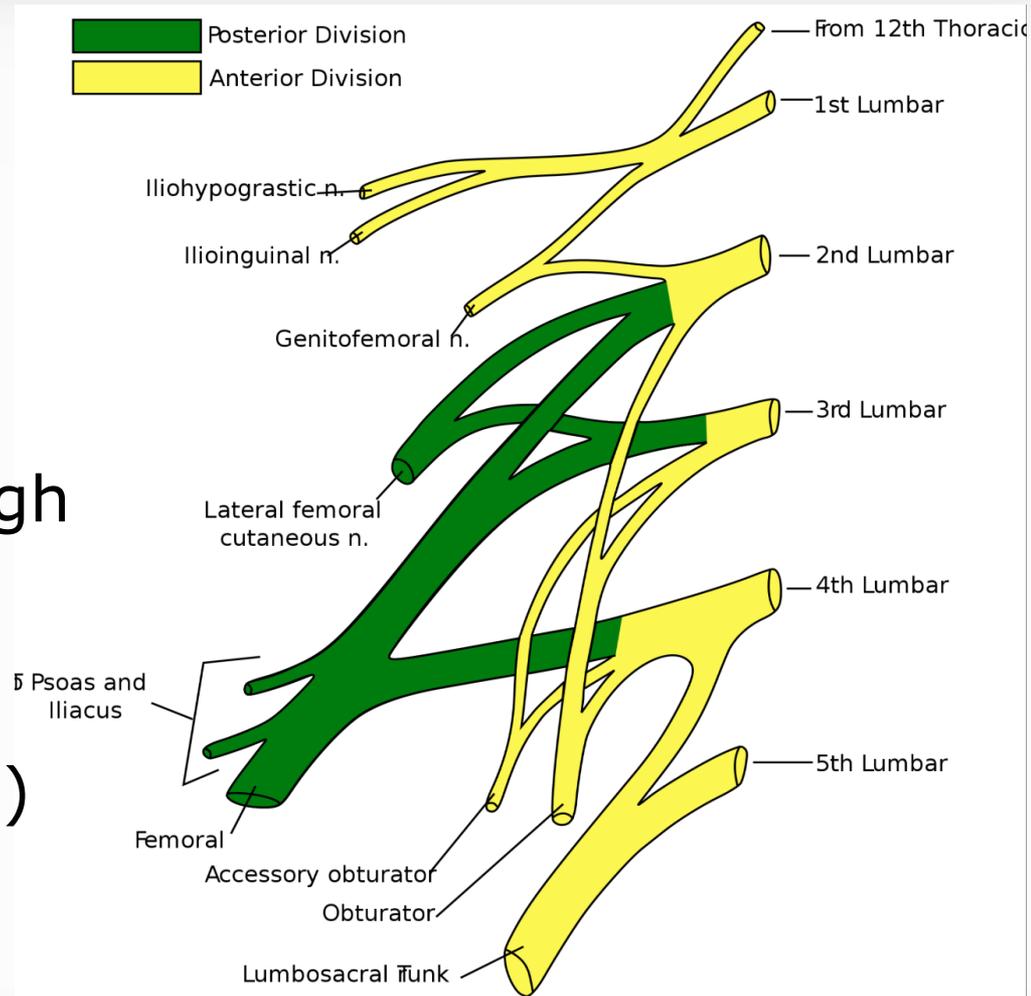
2-Ilio-inguinal (L1)

3-Genitofemoral (L1,2)

4-Lateral cutaneous of thigh (L2,3)

5-Femoral nerve (L1,2,3)

6-Obturator nerve (L1,2,3)



Relation to Psoas Major Muscle

Lateral

1-Ilio-hypogastric

2-Ilio-inguinal

3-Lateral cutaneous of thigh

4-Femoral nerve

Medial

Obturator nerve

Anterior

Genitofemoral

Genitofemoral

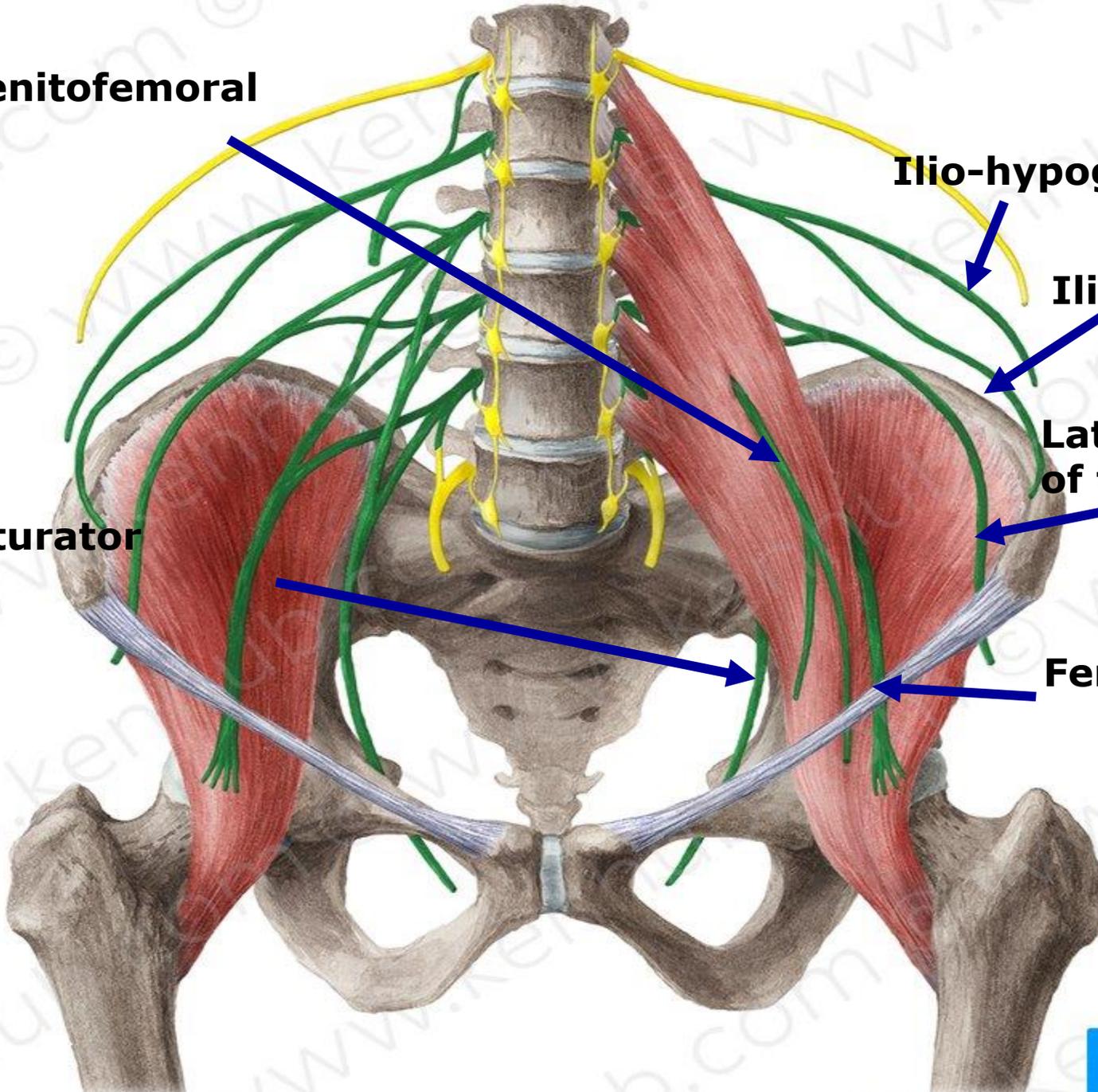
Ilio-hypogastric

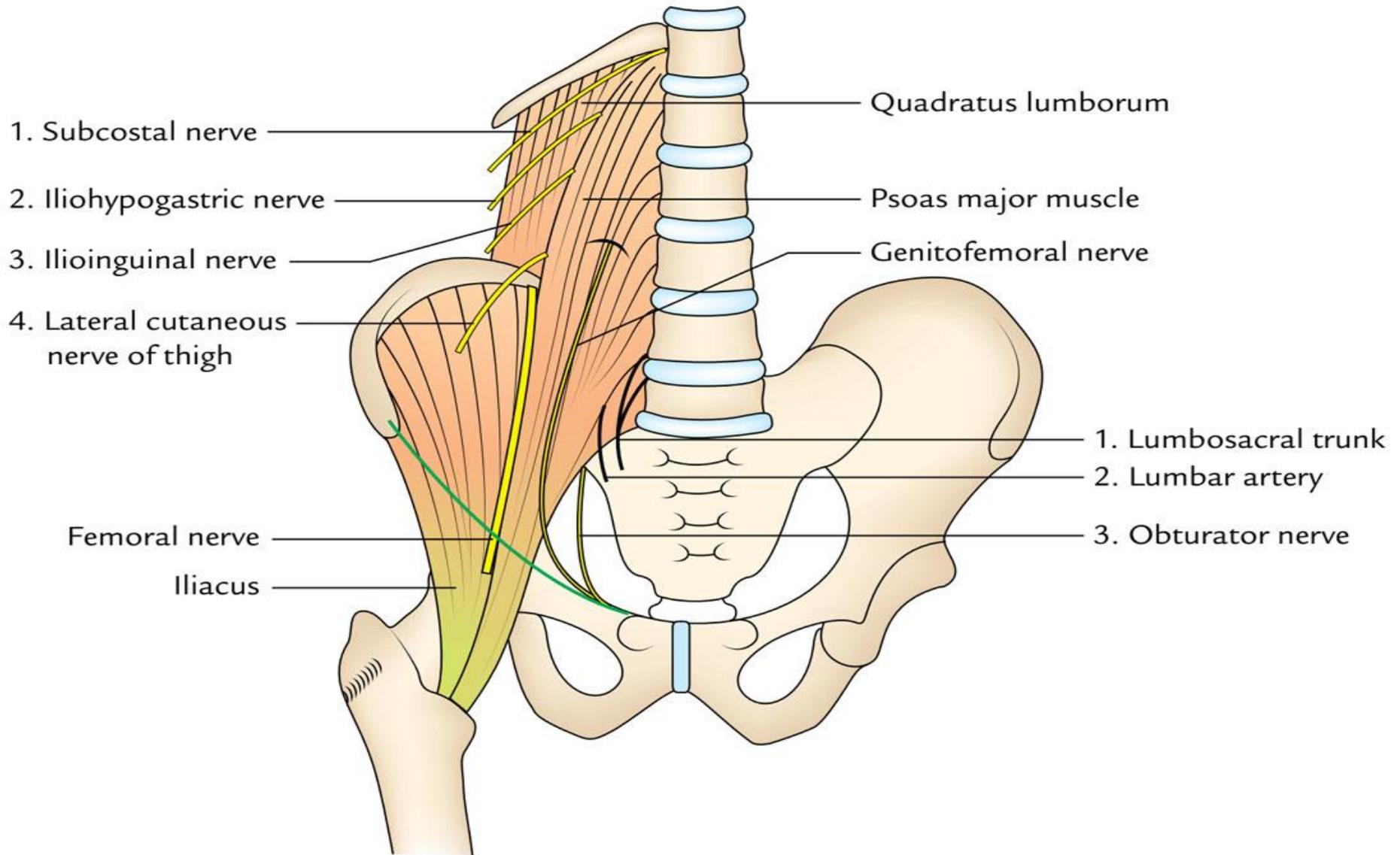
Ilio-inguinal

**Lateral cutaneous
of thigh**

Femoral

Obturator





2- Sacral Plexus

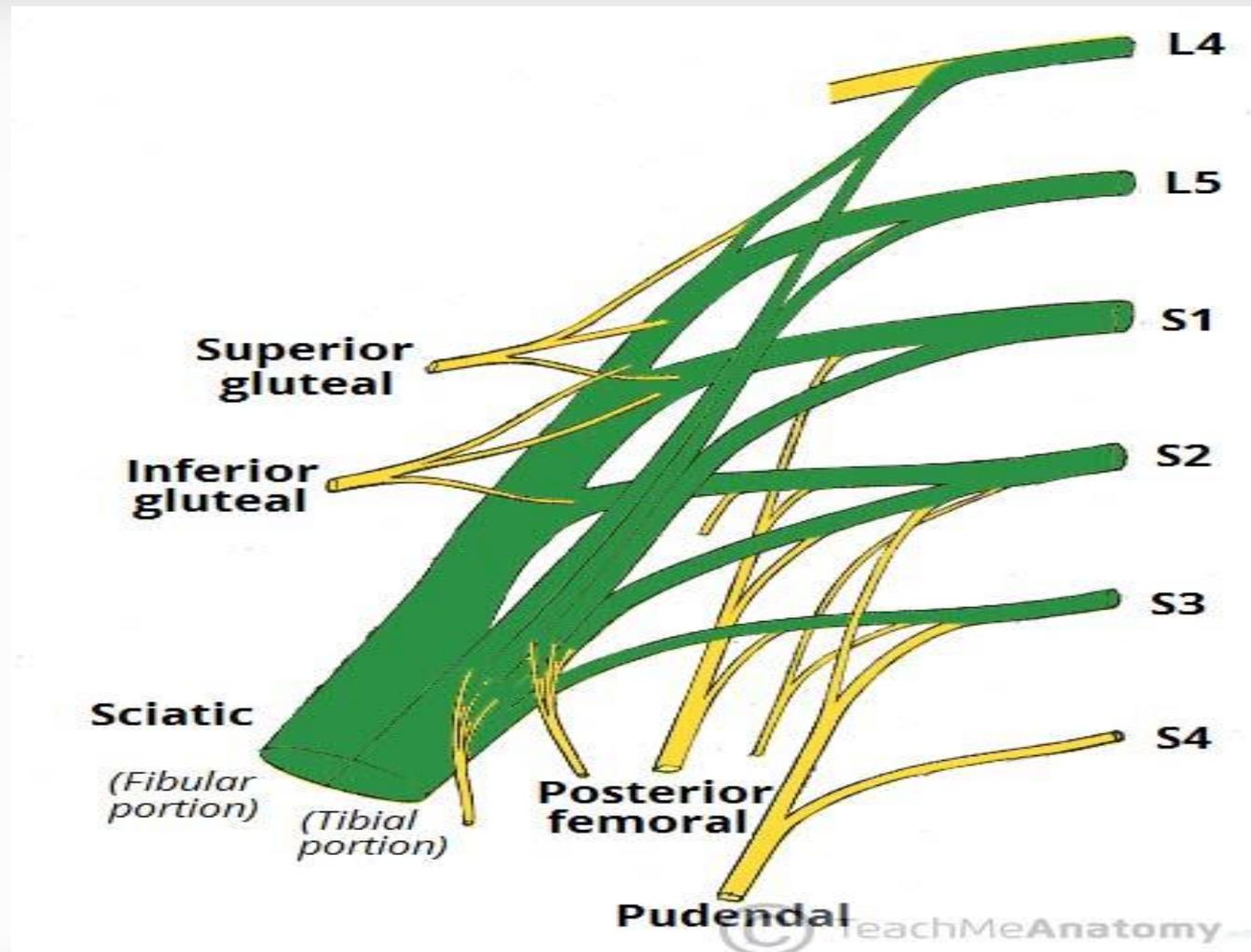
- Lies caudal to the lumbar plexus
- Formed by the lumbosacral trunk (L4,5) and ventral rami of S1 - S4
- Located on the anterior surface of piriformis muscle.



Branches of Sacral Plexus

- 1-Sciatic
- 2-Superior gluteal Nerve
- 3-Inferior gluteal nerve
- 4-Posterior cutaneous nerve of thigh
- 5-Nerves to the piriformis
- 6-Nerve to the quadratus femoris
- 7-Nerve to obturator internus
- 8- Pudendal Nerve

Sacral Plexus



Mention the origin of the following nerves



- 1-Sciatic
- 2-Femoral nerve
- 3-Superior gluteal Nerve
- 4-Inferior gluteal nerve
- 5-Obturator nerve
- 6-Posterior cutaneous nerve of thigh
- 7-Lateral cutaneous of thigh
- 8-Nerves to the piriformis
- 9-Nerve to the quadratus femoris
- 10-Genitofemoral
- 11-Ilio-hypogastric
- 12-Nerve to obturator internus muscle.
- 13- Pudendal Nerve



**Thank
You!!!**