Table 1: Innervation of the Lumbosacral Plexus and Peripheral Nerves of the Lower Extremity

Nerve	Origin	Muscles Innervated	Sensory Distribution	Function
Lumbar Plexus (L1-L4)				
Iliohypogastric	T12-L1	Transversus abdominus Internal oblique	Anteromedial abdominal wall Lateral buttock Pubis symphysis	Abdominal wall integrity
Ilioinguinal	L1 Anterior Division	Transversus Abdominus Internal Oblique	Medial upper thigh Skin over inguinal ligament Base of penis and anterior scrotum Mons pubis and superior labia majora	Abdominal wall integrity
Genitofemoral	L1-L2 Anterior Division	Cremaster (males)	Anterior upper thigh Spermatic cord and posterior scrotum Inferior labia majora	Reflex contraction of cremasteric muscle resulting in elevation of testis
Femoral	L2-L4 Posterior Division	Psoas Rectus femoris Vastus Lateralis Vastus Medialis Vastus Intermedius Sartorius Pectineus* Iliacus	Anterior and medial aspects of the mid and distal thigh Knee joint Medial leg and ankle (saphenous nerve)	Hip Flexion Knee Extension
Lateral Femoral Cutaneous	L1-L3 Posterior Division	None	Lateral thigh	Pure sensory nerve
Obturator	L2-L4 Anterior Division	Obturator Externus Adductor Magnus* Adductor Longus Adductor Brevis Gracilis Pectineus*	Medial upper thigh	Hip Adduction
Lumbosacral Trunk (L4-5) and Sacral Plexus (**L4-S3)**				
Sciatic **(Tibial division)**	L4-S3 Anterior Division	Biceps Femoris* (long head) Semitendinosus Semimembranosus Adductor Magnus*	Posterior thigh Posterior leg (tibial nerve) Lateral foot (sural nerve)	Hip Extension (minor) Knee Flexion Hip Adduction (minor)
Sciatic **(Common Peroneal division)**	L4-S2 Posterior Division	Biceps Femoris* (short head)	Posterior thigh Lateral and posterior leg (common peroneal nerve) Dorsum of foot (common peroneal nerve) First web space (deep peroneal nerve)	Hip Extension (minor) Knee Flexion
Superior gluteal	L4-S1 Posterior Division	Gluteus Medius Gluteus Minimus Tensor fascia latae	None	Hip Extension Hip External Rotation Hip Internal Rotation (minor)
Inferior gluteal	L5-S2 Posterior Division	Gluteus Maximus	None	Hip Extension
Pudendal	S2-S4	External Anal Sphincter External Urinary Sphincter	External genitalia	Voluntary control of defecation and urination
Posterior femoral cutaneous	S1-S3	None	Inferior and medial buttock Hip joint Perineum Popliteal fossa	Pure sensory nerve

Muscle contains dual innervation