

# NEPHRON ANATOMY & PHYSIOLOGY

Functional Unit of the Kidney

[ ILLUSTRATION: NEPHRON STRUCTURE & VASCULATURE ]

## RENAL CORPUSCLE

- Glomerulus (Capillary Network)
  - Bowman's Capsule
  - Afferent Arteriole
  - Efferent Arteriole
- 

## RENAL TUBULE SYSTEM

- Proximal Convoluted Tubule
  - Descending Loop of Henle
  - Ascending Loop of Henle
  - Distal Convoluted Tubule
- 

## COLLECTING SYSTEM

- Connecting Tubule
  - Cortical Collecting Duct
  - Medullary Collecting Duct
  - Papillary Duct
- 

## ASSOCIATED VASCULATURE

- Peritubular Capillaries
  - Vasa Recta (Juxtamedullary)
  - Interlobular Artery/Vein
  - Juxtaglomerular Apparatus
- 

Note: The nephron filters blood and regulates water/solute concentration through filtration, reabsorption, and secretion.