

Questions for self-control to the lecture

Animal physiology: The vertebrate kidney – more than just excretion

- 1) What is a structural and functional unit of vertebrate kidney?
- 2) Describe key physiological processes that enable the excretory function of the vertebrate kidney.
- 3) Describe briefly three non-excretory functions of the vertebrate kidney.
- 4) Explain the role of kidney in the regulation of erythropoiesis.
- 5) What is the function of recently discovered Norn cells? What molecular pathway is key for their function?
- 6) Outline a plausible evolutionary scenario that might have led to establishment of the kidney's central role in the erythropoiesis control in modern tetrapodes.