


 Faculty of Sciences

BIO1331 Animal Biochemistry, physiology and histology

[60h+22.5h exercises] 6 credits

This course is taught in the 1st and 2nd semester

Teacher(s): Bernard Knoops (coord.), Jean-François Rees, Yves-Jacques Schneider
Language: French
Level: First cycle

Aims

To establish the bases in biochemistry, physiology and histology, the main animal tissues will be studied, emphasis being put on mammalian tissues. Certain notions in cellular biology will also be deepened with the objective of integrating morphological, physiological and biochemical aspects in cellular processes.

Main themes

Epithelia.

Histology of epithelia

Physiology : transport of gas and solutes through epithelia

Biochemistry : application to intestinal epithelium in the context of digestion, transport and metabolism of food

Muscles.

Histology of skeletal muscle, cardiac muscle and smooth muscles

Physiology of muscular contraction

Biochemistry of energy production mechanisms

Nervous tissue

Histology of central and peripheral nervous system

Physiology of neurotransmission - synapse and regulation

Biochemistry in energy gain of brain and neurotransmission

Connective tissues

Histology of connective tissues

Physiology : brown adipose tissue and thermoregulation

Biochemistry : energetic reserve control in adipose tissue

Blood

Blood cells

Biochemistry : haemoglobin role, biochemistry of coagulation

Other credits in programs

VE12BA	Deuxième année de bachelier en médecine vétérinaire	(6 credits)	Mandatory
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