## 2009 Miniboard Exam

Lab Animal

- 1. A finding associated with myoepitheliomas in mice is:
- A. Hyaline droplets in renal tubular epithelium
- B. Hepatic eosinophilic cell foci
- C. Myeloid hyperplasia
- D. Splenic fibrosis
- E. Amyloidosis
- 2. Characteristics of Nipah viral infection in Guinea pigs include all of the following, EXCEPT:
- A. Arterial vasculitis
- B. Venous vasculitis
- C. Syncytial cells formation
- D. Intracytoplasmic inclusion bodies
- E. Sparing of the genitourinary tract
- 3. A consistent histologic finding in dehydrated mice is:
- A. Myeloid hypoplasia
- B. Erythroid hypoplasia
- C. Thymic apoptosis
- D. Pulmonary congestion
- E. Lymphoid hyperplasia
- 4. In Murine Mucolipidosis Types II and IIIc, which cell did NOT develop cytoplasmic vacuolar inclusions in *Gnptab*<sup>-</sup>/- and *Gnptg*<sup>-</sup>/- mice:
- A. Fibrocytes
- B. Pancreatic exocrine cells
- C. Gastric glandular epithelium
- D. Salivary gland glandular epithelium
- E. Bulbourethral glandular epithelium
- 5. Which of the following is NOT an important feature of Nutritional Muscular Dystrophy in Guinea Pigs:
- A. Coagulative necrosis of myofibers
- B. Hyalinization of myofibers
- C. Increased basophilia of myofibers
- D. Regenerating myofibers
- E. Mineralization of myofibers
- 6. The mouse strain resistant to disease produced by ectromelia virus is:
- A. DBA
- B. C3H
- C. BALB/c
- D. B6
- E. A
- 7. Recent outbreaks of a fatal herpesvirus infection in domestic rabbits are characterized by all of the following EXCEPT:
- A. Necrohemorrhagic dermatitis
- B. Pulmonary hemorrhage
- C. Splenic necrosis
- D. Necrohemorrhagic myocarditis
- E. Peripheral necrotizing lymphadenitis
- 8. The most prominent lesion in cotton-top tamarins infected with Encephalitozoon cuniculi is:
- A. Meningoencephalitis
- B. Prostatitis
- C. Cystitis

- D. Interstitial nephritis
- E. Retinitis
- 9. What is the most common clostridial pathogen associated with the enteritis complex in juvenile rabbits:
- A. Clostridium piliforme
- B. Clostridium perfringens Type E
- C. Clostridium perfringens Type C
- D. Clostridium spiroforme
- E. Clostridium difficile
- 10. Prolactin producing pituitary adenomas in the New Zealand White rabbit are often associated with:
- A. Mammary gland adenocarcinomas
- B. Mammary gland dysplasia
- C. Multiple ovarian cysts
- D. Renal mineralization
- E. Exfoliative dermatitis
- 11. The cause of transmissible murine colonic hyperplasia is:
- A. Helicobacter rodentium
- B. Salmonella enteritidis
- C. Rodentolepsis nana
- D. Citrobacter rodentium
- E. Lawsonia intracellularis
- 12. Which of the following tumors is NOT common in Dungarian hamsters:
- A. Papilloma
- B. Squamous cell carcinoma
- C. Atypical fibroma
- D. Lymphoma
- E. Mammary gland adenoma
- 13. Which of the following is closely associated with noma in rhesus monkeys:
- A. Simian immunodeficiency virus
- B. Simian Type D retrovirus
- C. Simian T-lymphotropic virus
- D. Cercopithecine herpesvirus 1
- E. Simian lentivirus
- 14. The most common hormone secreted from cynomolgus macaque pituitary adenomas is:
- A. Growth hormone
- B. Thyroid-stimulating hormone
- C. Luteinizing hormone
- D. Prolactin
- E. Follicle-stimulating hormone
- 15. Which of the following is NOT a characteristic of uterine infarctions in cynomolgus monkeys:
- A. Areas of infarction restricted to outer myometrium
- B. Minimal to no inflammatory response
- C. Vessels at margin of lesions contain fibrin thrombi
- D. Bilateral symmetrical uterine lesions
- E. Histologic evidence of previous pregnancy
- 16. The most likely cause of granulomatous serositis in IFN-γ -/- mice is:
- A. Mouse Hepatitis Virus (Coronavirus)
- B. LDV (Lactate Dehydrogenase Elevating Virus)
- C. Ectromelia virus
- D. Mouse Parvovirus-1
- E. Murine Polyomavirus

- 17. The most likely cause of diffuse hyperkeratotic dermatitis in athymic nude mice is:
- A. Corynebacterium kutscheri
- B. Corynebacterium bovis
- C. Staphylococcus aureus
- D. Staphylococcus xylosus
- E. Streptobacillus moniliformis
- 18. All of the following are true regarding large granular lymphocytic (LGL) leukemia in rats EXCEPT:
- A. Arises within the spleen
- B. Is not retrovirus associated
- C. Occurs primarily in young rats
- D. Occurs most commonly in F344 rats
- E. Concurrent hemolytic anemia and thrombocytopenia is common
- 19. All of the following are true regarding polyarteritis in rats EXCEPT:
- A. Lungs are commonly affected
- B. Testes are commonly affected
- C. Sprague Dawley rats are predisposed
- D. Medium-sized arteries are most affected
- E. Spontaneous hypertensive rat strains are predisposed
- 20. The pathognomonic microscopic change in rotavirus in infant rats is:
- A. Epithelial syncytia
- B. Enterocyte necrosis
- C. Villus blunting and fusion
- D. Eosinophilic cytoplasmic inclusions
- E. Eosinophilic intranulclear inclusions
- 21. Which of the following is NOT a characteristic of hereditary hydrocephalus in laboratory-reared Golden Hamsters:
- A. Affects only lateral ventricles
- B. Rarefaction of underlying periventricular and subependymal parenchyma
- C. Attenuation of ependymal epithelium
- D. No obvious motor deficits or abnormal behavior
- E. Marked gliosis of periventricular and subependymal parenchyma
- 22. By EM, the eosinophilic substance ("not amyloid") of the mouse nasal septum is connected to material within which organelle:
- A. Golgi apparatus
- B. Mitochondria
- C. Rough endoplasmic reticulum
- D. Smooth endoplasmic reticulum
- E. Lysosomes
- 23. All of the following are lesions of Rat parvovirus EXCEPT:
- A. Necrotizing enteritis
- B. Cerebral hemorrhage
- C. Cerebellar hypoplasia
- D. Testicular hemorrhage
- E. Amphophilic intranuclear inclusions within hepatocytes
- 24. Tyzzer's disease in Cotton-top tamarins causes which of the following lesions:
- A. Necrotizing typhlocolitis
- B. Hepatitis
- C. Myocarditis
- D. A and B
- E. All of the above

- 25. Megaloileitis in rats can be caused by:
  A. Salmonella
  B. Rat parvovirus
  C. Helicobacter bilis
  D. Clostridium piliforme
  E. Citrobacter rodentium