

2014 Miniboard Exam

Candidate

Lab Animal Blank

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1. In macaques, retroperitoneal fibromatosis is associated with infection with:
 - a. Simian virus 40
 - b. Simian cytomegalovirus
 - c. Simian retrovirus type 2
 - d. Encephalomyocarditis virus

2. Which of the following receptors is required for ebola virus entry in rhesus macaques?
 - a. CD28
 - b. CD95
 - c. MHC I
 - d. Neimann-Pick C1

3. Which of the following lesions is seen in ALPK3^{-/-} mice?
 - a. Malformation of large cardiac vessels
 - b. Cardiac interstitial inflammation
 - c. Cardiac interstitial fibrosis
 - d. Myocardial hypertrophy

4. Which mutation is correlated with primary hepatocellular carcinomas in lemurs and lorises?
 - a. Beta catenin
 - b. E cadherin
 - c. H-ras
 - d. cMYC

5. Which of the following organs is NOT affected by polycystic disease in hamsters?
 - a. Liver
 - b. Kidney
 - c. Pancreas
 - d. Epididymis

6. Eccrine glands are only found where in C57B6 mice?
 - a. Neck
 - b. Head
 - c. Pinna
 - d. Footpad

7. Which of the following is FALSE in Fam20a^{-/-} mice?
 - a. Normocalcemic and normophosphatemic

- b. Calcification of muscular arteries
 - c. Interpulmonary calcification
 - d. No enamel lesions
8. Ectopic endometrial tissue in pleural endometriosis in rhesus macaques is NEGATIVE for:
- a. Carcinoembryonic antigen
 - b. Progesterone receptor
 - c. Estrogen receptor
 - d. Vimentin
9. In Guinea pigs, which was growth promoting AND chemoattractive for *Campylobacter jejuni*?
- a. Iron
 - b. Mucin
 - c. L-fucose
 - d. Estradiol
10. In the mouse, which of the following is only expressed in the glomerulus:
- a. Aqp1
 - b. Aqp2
 - c. Calbindin
 - d. Glutathione-S-transferase
11. The most common neoplasm in dimethylnitrosamine exposed Japanese medaka fish is:
- a. Hepatocellular carcinoma
 - b. Rhabdomyosarcoma
 - c. Enteric carcinoma
 - d. Lymphoma
12. Galectin 3 is NOT expressed where in rats with bleomycin induced scleroderma?
- a. Myofibroblasts
 - b. CD8+ Lymphocytes
 - c. CD68+ macrophages
 - d. CD163+ macrophages
13. Which of the following is NOT a cause of rectal prolapse in mice?
- a. *Streptobacillus moniliformis*
 - b. *Helicobacter rodentium*
 - c. *Citrobacter rodentium*
 - d. *Aspicularis tetraptera*
14. Which of the following mouse strains are susceptible to mouse cytomegalovirus?
- a. B6

- b. CBA
 - c. C3H
 - d. BALB/c
15. Which of the following lesions are NOT seen in Mongolian gerbils with Tyzzer's disease?
- a. Megaloileitis
 - b. Necrotizing hepatitis
 - c. Necrotizing myocarditis
 - d. Suppurative encephalitis
16. Which lesion is found in Tmm5^{-/-} mice?
- a. Cryptogenic organizing pneumonia
 - b. Myocardial mineralization
 - c. Hepatocellular tumors
 - d. Spontaneous aortitis
17. Expression of which gene was increased in liver tumors of oxazepam exposed mice?
- a. APC
 - b. Lrp1
 - c. Sox4
 - d. Crebbp
18. The respiratory strain of mouse coronavirus uses the following cell receptor:
- a. CEACAM1
 - b. PECAM1
 - c. VCAM1
 - d. ICAM2
19. Which of the following lesion is found in telomerase-deficient mice with *Helicobacter mastomyrinus* infection?
- a. Cardiac fibrosis
 - b. Suppurative mastitis
 - c. Ulcerative typhlocolitis
 - d. Necrotizing pancreatitis
20. Which of the following is NOT found in hamsters with hamster parvovirus infection?
- a. Ulcerative colitis
 - b. Domed calvarium
 - c. Testicular atrophy
 - d. Enamel hypoplasia
21. Which of the following anesthetic agents produced the most severe clinical signs and histopathological lesions in the murine model for EHV-1?
- a. Isoflurane

- b. Ketamine
 - c. Xylazine
 - d. Ether
22. Which of the following is NOT associated with ulcerative dermatitis in B6 mice?
- a. Elevated epithelial retinol dehydrogenase (DHRS9)
 - b. Overexpression of the Hoxb8 gene
 - c. Deficient alcohol dehydrogenase 4
 - d. Elevated vitamin A levels
23. Which of the following is a vector for *Mycoplasma coccoides* in mice?
- a. *Ornithonyssus bacoti*
 - b. *Psoregates simplex*
 - c. *Myobia musculi*
 - d. *Polypax serrata*
24. Which of the following is NOT found in Reyes-like syndrome in mice?
- a. Splenic fibrosis
 - b. Hyperammonemia
 - c. Mitochondrial swelling
 - d. Hepatocyte microvesicular lipid degeneration
25. Herpes sylvilagus causes which of the following lesions in rabbits?
- a. Mammary fibroadenoma
 - b. Suppurative otitis media
 - c. Ulcerative stomatitis
 - d. Lymphoma