

私立臺北醫學院 89 學年度第 1 學期 ~~期中~~ ~~期末~~ 考試 (命試) 題紙

系級	科目	日	授課教師	考試日期	學號	姓名
醫四	腫瘤生物學		邱仲峰	90年1月17日第2節		

*①請注意本試題共 6 張。如發現頁數不足及空白頁或缺印，應當場請求補齊，否則缺少部份概以零分計。
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腫瘤生物學期末考試：

一、選擇題：

- cancer metastasis is the :
 - escape of tissue cell from a primary site
 - cancer cells growth at a distant secondary location
 - is not related to tumor size
 - all of above
 - none of above
- cancer metastasis can proceed thru :
 - blood vessels
 - lymphatics
 - arteries
 - capillary
 - all of above
- arrest of cancer cells within a vessel
 - a passive event of entrapment
 - interaction between lymphocytes, platelet and endothelial cells
 - platelet derived growth factor is involved
 - all of above
 - none of above
- stage of cancer metastasis :
 - differentiation
 - intravasation
 - extravasation
 - b+c
 - a+b+c
- adhesion molecule involved in cancer metastasis :
 - cyclin D
 - lecithin
 - N-CAM
 - angiostatin
 - fibrin
- cancer cell in the blood stream are destroyed by the following process:
 - low pH
 - high glucose
 - mechanical stress
 - immune system
 - c+d
- which of the follwing is true? :
 - tumor necrosis factor(TNF) inhibits tumor cell adhesion
 - cancer cell adhesion to endothelium requires calmodulin and integrins
 - cancer cell extravasation from the endothelium requires attachment of tumor emboli with platelets
 - all of above is true
 - none of above is true
- protease involved in cancer invasion:
 - serine-dependent protease
 - metalloproteinase
 - plasminogen activators
 - all of above
 - none of above
- angiogenesis :
 - occurs only in malignant tumor
 - new vessel growth
 - is not required for tumor growth
 - inhibited by cortisol
 - all of above
- activators of angiogenesis :

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醫 四	腫 瘤 生 物 學	邱 仲 峰	年 月 日 第 節		

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- a. angiogenin
 - b. fibroblast growth factor (FGF)
 - c. platelet derived growth factors(PDGF)
 - d. none of above
 - e. all of above
11. 以下何者為細胞調節之方式
 - a. Endocrine
 - b. Autocrine
 - c. Paracrine
 - d. 以上皆是
 12. Tyrosine kinase receptor 主要傳遞訊息的機制為?
 - a. Hydration
 - b. Dehydration
 - c. Phosphorylation
 - d. Dehosphorylation
 13. Janus kinases(JAKs)的作用位置在:
 - a. Cytoplasma
 - b. Nuclens
 - c. 以上皆是
 - d. 以上皆非
 14. Ras 與下列何者結合時，具有 active form?
 - a. GTP
 - b. GDP
 - c. GAP
 - d. 以上皆是
 15. Ras 與何種 Disease 有關?
 - a. Acute ML
 - b. Chronic mono ML
 - c. Chronic ML
 - d. Childhood chromic ML
 16. Membrane receptor 中與 cell-ECM (extracellular glycoprotein matrix)作用有關者為?
 - a. Integrin
 - b. Cadherins
 - c. Immunoglobulin family
 - d. Selectins
 17. 下列何者不須經由 receptor 的媒介，而可直接進入細胞內作用?
 - a. steroid hormones
 - b. retinoic acid
 - c. thyroid hormones
 - d. 以上皆是
 18. Fibroblast growth factor 主要作用在何種細胞?
 - a. endothelial cell of blood ressel
 - b. neuron cell
 - c. renal cell
 - d. germ cell
 19. Poly peptide growth factor 中 insulin family 包括以下何者?
 - a. Insulin
 - b. IGH-I
 - c. IGF-II
 - d. 以上皆是
 20. Hormone antagonists 可用於何種癌症的治療?
 - a. Astrocytoma
 - b. Prostate cancer
 - c. Bladder cancer
 - d. Cervical cancer
 21. 一般而言細胞週期的長短取決於那一期
 - a. G₁ 期
 - b. S 期
 - c. G₂ 期
 - d. M 期
 22. 下列那一個細胞週期對放射線治療最敏感
 - a. G₁ 期
 - b. S 期
 - c. G₂、M 期
 - d. G₀ 期
 23. 下列何者不屬於致癌基因
 - a. N-ras Gene
 - b. N-myc Gene
 - c. Bcl-2 Gene
 - d. P53 Gene
 24. 下列何者不屬於抑癌基因

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- a. BRCA1 Gene
 - b. RB Gene
 - c. MDM₂ Gene
 - d. P53 Gene
25. 有關之敘述何者是錯的
- a. Apoptosis 可避免異常的傳到後代
 - b. Apoptosis 機制常是影響一大群細胞
 - c. 增加 BAX 可導致 Apoptosis
 - d. 減少 Bcl₂ 可導致 Apoptosis
26. About Retinoblastoma (Rb), which is wrong
- a. The differences of familial connection with Rb (bilateral vs. unilateral) are explained by the numbers of mutations (hits) required to generate a cancer
 - b. Rb gene is located on chromosome 13q14, produce a 110kDa serine/threonine phosphoprotein that inhibits the cell cycle
 - c. The age of onset of unilateral cancers is about 2 years old and familial cancers is about age of 4 years.
 - d. The sporadic type of retinoblastoma is unilateral type.
27. Familial type of retinoblastoma cases are at increased risk of
- a. breast cancer
 - b. bone cancer
 - c. lung cancer
 - d. bladder cancer
28. Wilms' Tumor, which is wrong
- a. It is inherited as an autosomal trait and single hit are required for tumor formation
 - b. Wilms' tumor gene is located on chromosome 11p13
 - c. Wilms' tumor gene can act in a dominant-negative way that both alleles need not be needed
 - d. The most commonest abdominal tumor in children is Wilms' tumor
29. The commonly seen chromosome related to Colon cancer include the followings except:
- a. chromosome 5q
 - b. chromosome 2
 - c. chromosome 3
 - d. chromosome 17q
30. The major difference between Familial adenomatous polyposis coli(FAP) and Lynch's syndrome(HNPCC) is
- a. FAP germline mutation is on APC repressor gene while HNPCC is mostly on MSH2, MLH1
 - b. FAP chromosome defect is on 5q and HNPCC is on chromosome 2 or 3
 - c. In USA, FAP accounts for 1% of all colon cancer and HNPCC accounts about 3-5% of colon cancers
 - d. FAP is characterized by the development of adenoma and the HNPCC is presented with diffuse colonic polyposis
31. About Breast cancer (BRCA) gene, which is wrong?
- a. Women with breast cancer had a lower recurrence rate and longer disease-free survival better if BRCA1 is (+)
 - b. BRCA genes are thought to be involved 99% of all familial breast and ovarian cancers
 - c. BRCA1 is a tumor suppressor gene while BRCA2 is a DNA repair gene
 - d. Currently, there are three different BRCA genes had been described.
32. Currently, the gene that was found to be associated with male breast cancer is
- a. BRCA1
 - b. BRCA2
 - c. BRCA3
 - d. MSH2
33. Familial breast cancer is different from sporadic breast cancer in age of onset of familial type is
- a. earlier
 - b. later
 - c. no difference
 - d. earlier in BRCA1 and later in BRCA2
34. In chemoprevention of family colon cancer, the following drug is found to have significant effect:

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- a. Aspirin
 c. peroxisome proliferator-activated receptors (PPARs)
 35. When a women was found to have BRCA1(+), the lifetime risk of developing cancer by the age of 70 years:
 a. 20-30%
 c. 70-80%
 36. Overall survival 是指那一段時間
 a. Diagnosis 到 Relapse
 c. Diagnosis 到 Death
 37. 癌症的發生通常須時多久?
 a. 數週
 c. 數年
 38. Tumor staging 的判定中最主要依據的是?
 a. Tumor size
 c. Metastasis
 39. 若有一動物腫瘤為 1g 重，在治療後殺死 99.999%(5)的 tumor cell 後，其所得下的 tumor cell 數及此動物仍有腫瘤的比例各為多少?
 a. 0, 0%
 c. 10^2 , 70%
 40. 目前癌症的治療方式為何?
 a. 放射治療
 c. 化學治療
 41. The difference between the minimum effective dose and maximum tolerated dose 稱為
 a. Survival index
 c. Toxicity index
 42. 下列何者非直接作用於 DNA 者
 a. Cyclophosphacinde
 c. Doxorubicin
 43. 下列何種機制可造成 Drug resistance
 a. Drug metabolism
 c. DNA repair
 44. 目 tumor marker 可用於何種用途?
 a. 診斷
 c. 追蹤檢查
 45. Hormone therapy 的治療機制何者為非?
 a. DNA destruction
 c. Steroid Receptor Antagonists
 46. Photo dynamic therapy 的作用機制主要為:
 a. damage cell membrane
 c. damage RNA
 47. 若接受完整的治療，colon ca 沒有轉移的狀況下其 5 年存活率為多少?
 a. 40%
 c. 80%
- b. Sulindac(Exisulind)
 d. All of above
 b. 40-50%
 d. 100%
 b. Relapse 到 Death
 d. 與 Relapse-free survival
 b. 數月
 d. 以上皆可能
 b. Lymph nodes
 d. 以上皆是
 b. 10, 50%
 d. 10^4 , 100%
 b. 手術切除
 d. 以上皆是
 b. Therapeutic index
 d. 以上皆非
 b. Methotrexate
 d. 5-Fu
 b. Altered targets
 d. 以上皆是
 b. 評估治療效果
 d. 以上皆是
 b. Disruption at steroid synthesis
 d. 以上皆是
 b. deleterious effects of DNA
 d. 以上皆是
 b. 60%
 d. 100%

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一、選擇題：

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

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二、填充題：

- 51、_____
- 52、_____
- 53、_____
- 54、_____
- 55、_____
- 56、_____
- 57、_____