



An oil in water adjuvant has the capacity to do the



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- Promote Th1 immune responses
- ✓  Induce co-stimulators in macrophages
- ✓  Delayed release of antigen
- ✓  Enhanced uptake of antigens
- Present antigens to Dendritic cells

**Incorrect**

You did not choose the correct response.





## Factors that affect immunogenicity of an antigen



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- ✓  Foreignness
- ✓  Solubility
- ✓  Route of administration
- ✓  Chemical composition
- charge
- ✓  Volume

**Correct**

That's right! You chose the correct response.





Which is of the following is true



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- The risk of HIV transmission is higher in penile-rectal sexual intercourse
- The risk of HIV transmission is higher in penile-vaginal sexual intercourse

**Correct**

That's right! You chose the correct response.





## Severe combined immunodeficiency (SCID)



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- ✓  Is caused by an Adenosine deaminase (ADA) gene defect
- ✓  Autosomal recessive disorder
- is caused by a defect in MHC II gene promoter
- ✓  is fatal in early life
- ✓  B cells and T cells

**Correct**

That's right! You chose the correct response.





## Activation of T cells requires the following



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- ✓  peptides of foreign origin
- ✓  cytokines
- B cell receptors
- ✓  CD28
- B7 receptor
- ✓  B7 molecule

**Correct**

That's right! You chose the correct response.





## Live-attenuated vaccines like oral polio vaccines h



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- ✓  induce mucosal immunity through IgA
- have no risk of reversion to virulence
- ✓  induce cell mediated immunity
- ✓  do not require adjuvants
- ✓  induce life-long immunity

**Correct**

That's right! You chose the correct response.





## Autoimmunity is triggered by



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- ✓  polyclonal activation of B cells
- polyclonal activation of T cells
- ✓  release of sequestered antigens
- ✓  Inappropriate expression of MHC class II and sensitization of autoreactive T cells
- ✓  molecular mimicry

**Correct**

That's right! You chose the correct response.





## Allergy is



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- Is a type I hypersensitivity
- is cell mediated
- is immune complex mediated
- is mediated by IgE

**Correct**

That's right! You chose the correct response.





The test used to distinguish between individuals v  
from persons vaccinated with Bacillus Calmette-Guérin



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- ✓  Interferon gamma release assay
- CFP-10 ELISA
- ESAT 6 ELISA
- Tuberculin test
- ✓  QuantiFERON Test

**Correct**

That's right! You chose the correct response.





## Enzyme-linked immunospot (ELISPOT)



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- Detects cells that secrete antigen
- Detects cells that secrete antibody
- ✓  Detects cells that secrete cytokines

**Correct**

That's right! You chose the correct response.





## Urinary schistosomiasis is



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- is antibody mediated
- ✓  is mediated by immune response towards ova
- ✓  caused by granuloma formation and fibrosis
- ✓  is mediated by delayed hypersensitivity
- is mediated by immune response towards adult worms
- is a type III hypersensitive reaction

**Correct**

That's right! You chose the correct response.





The pathology of acute respiratory distress syndromes-2019 (COVID-19) is caused by



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- Loss of CD4 cells in the lungs
- desquamation of pneumocytes, hyaline membrane formation, and interstitial lymphocyte infiltration, and multinucleated syncytial cells in the lungs
- Granuloma formation and necrosis of pneumocytes in the lungs
- Activation of microglia and astroglia in the brain

**Incorrect**

You did not choose the correct response.





## Immunological techniques are used to



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- Detect, identify and quantify antigens in clinical samples
- Evaluate immediate exposure to infectious agents
- Evaluate clearance of an infectious agent after treatment

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The recently approved malaria vaccine, RTS, S/AS02 (Mosquirix) is a



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- An adenoviral vector vaccine
- An mRNA vaccine
- A replicating live-attenuated virus vaccine
- A protein sub-unit vaccine

**Correct**

That's right! You chose the correct response.





## Tumours secrete immunosuppressive molecules s



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- Interleukin-10
- Programmed death ligand 1 (PDL-1)
- Transforming Growth Factor (TGF)- beta
- Indamine, 2,3-dioxygenase (IDO)
- Interleukin-12

**Correct**

That's right! You chose the correct response.





The Oxford/AstraZeneca vaccine administered in :



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- An inactivated vaccine
- A replicating live-attenuated virus vaccine
- An adenoviral vector vaccine
- An mRNA vaccine

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That's right! You chose the correct response.





Indicate the which of the following statements is t



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- ✔ Tumours may evade the immune system by forming a collagen barrier against T cells
- Tumours may block T cell activity through expression of the CD28 molecule

**Correct**

That's right! You chose the correct response.





The following are members of the immunoglobulin



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- ✓  Interleukin-1 receptor
- natural killer cells
- ✓  PD1
- ✓  CD3D
- ✓  Beta-2 microglobulin

**Correct**

That's right! You chose the correct response.





When the same carcinogen induces two separate tumours in the same animal at two different sites:



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- The tumour antigens are dissimilar
- The animal is referred to as syngenic

**Correct**

That's right! You chose the correct response.





## Question 2 of 20



Tumour-associated transplantation antigens (TAT)



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[Learn more](#)

- May result from mutations in proto-oncogenes and tumour suppressor genes
- Are expressed by normal cells

**Correct**

That's right! You chose the correct response.





6



3

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S Munsaka)

/ [Test 2](#)

## Test 2

**Opened:** Friday, 29 October 2021, 8:00 AM

**Closed:** Friday, 29 October 2021, 8:20 AM

Number of attempts allowed: 1

Number of attempts you have made: 1

Grade for attempt 1: 95%

Grading method: Highest grade

Grade reported: 95%

**You have reached the maximum  
number of attempts.**

[← VACCINES VIDEO](#)





Live-attenuated vaccines like oral polio vaccines h



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- have no risk of reversion to virulence
- ✓  induce cell mediated immunity
- ✓  induce life-long immunity
- ✓  do not require adjuvants
- ✓  induce mucosal immunity through IgA

**Correct**

That's right! You chose the correct response.





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