

Natural Biology

Microbiology

Final 3

Microbiology #3

Author: Madison Christian

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4. Chapter: Microbiology Final 3

1. Microbiology Final 3 Questions

4.1.1. There are _____ classes of antibody.

Author: Madison Christian

There are _____ classes of antibody.

Please choose only one answer:

- 1
- 3
- 5
- 7

Check the answer of this question online at QuizOver.com:

Question: [There are classes of antibody. Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-there-are-classes-of-antibody-madison-christian-micro-final?pdf=1505>

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4.1.2. The stimulation of B cells to divide and mature is provided by

Author: Madison Christian

The stimulation of B cells to divide and mature is provided by

Please choose only one answer:

- T helper cells.
- macrophages.
- T cytotoxic cells.
- plasma cells.

Check the answer of this question online at QuizOver.com:

Question: [The stimulation of B cells to divide and Madison Christian Micro](#)

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<http://www.quizover.com/flashcards/question-the-stimulation-of-b-cells-to-divide-and-madison-christian-mi?pdf=1505>

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4.1.3. Which of the following do not induce a strong immune response?

Author: Madison Christian

Which of the following do not induce a strong immune response?

Please choose only one answer:

- lipids
- proteins
- polysaccharides
- nucleic acids
- lipids AND nucleic acids

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which of the following do not induce a Madison Christian Micro Quest](#)

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4.1.4. According to the clonal selection theory

Author: Madison Christian

According to the clonal selection theory

Please choose only one answer:

- antibodies are modified, at the time of antigen exposure, to specifically react with the antigen.
- self-reactive T cells are killed in the thymus.
- B cells producing autoantibodies are eliminated in the thymus.
- each B cell is already programmed to produce a specific antibody.
- self-reactive T cells are killed in the thymus AND B cells producing autoantibodies are eliminated in the thymus.

Check the answer of this question online at QuizOver.com:

Question: [According to the clonal selection theory Madison Christian Micro](#)

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4.1.5. Antigens may be processed for presentation by

Author: Madison Christian

Antigens may be processed for presentation by

Please choose only one answer:

- macrophages.
- dendritic cells.
- erythrocytes.
- T cytotoxic cells.
- macrophages AND dendritic cells.

Check the answer of this question online at QuizOver.com:

Question: [Antigens may be processed for presentation Madison Micro Final Quest](#)

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4.1.6. A terrorist mad scientist develops a new blood-borne virus that wil...

Author: Madison Christian

A terrorist mad scientist develops a new blood-borne virus that will completely shut down presentation of viral epitopes on MHC molecules in the cells it infects. He produces an internet video describing it and how it will be indestructible by CD8+ cytotoxic T-cells and will kill millions (if not billions) of people. The medical community quickly denounces and discredits his plan as impossible, and the whole thing is quickly forgotten-why?

Please choose only one answer:

- CD8+ T-cells are not the cells that are responsible for killing virally-infected cells. The terrorist mad scientist is a misinformed idiot.
- While CD8+ T-cells ARE important for eliminating a viral infection, they are not the ONLY things that are capable of doing so. Natural Killer cells can kill virally-infected cells that have shut down MHC antigen presentation, and interferons can assist in clearing virally-infected cells.
- A blood-borne virus would not be capable of rapidly infecting millions of people, due to its difficult mode of transmission.
- B-cells would be primed right away to produce complement proteins to destroy the virus. This would prevent cells from being infected with it in the first place. His plot would be foiled.
- While CD8+ T-cells ARE important for eliminating a viral infection, they are not the ONLY things that are capable of doing so. Natural Killer cells can kill virally-infected cells that have shut down MHC antigen presentation, and interferons can assist in clearing virally-infected cells AND a blood-borne virus would not be capable of rapidly infecting millions of people, due to its difficult mode of transmission.

Check the answer of this question online at QuizOver.com:

Question: [A terrorist mad scientist develops a new Madison Christian Micro](#)

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4.1.7. "Clonal selection" and "clonal expansion"

Author: Madison Christian

"Clonal selection" and "clonal expansion"

Please choose only one answer:

- implies that each individual lymphocyte produces a single antibody.
- describes how the adaptive immune system can produce millions of different antibodies.
- depends on an antibody recognizing a specific epitope.
- are based on random processes.
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Clonal selection and clonal expansion Madison Christian Micro Final](#)

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<http://www.quizover.com/flashcards/question-clonal-selection-and-clonal-expansion-madison-christian-micro-fi?pdf=1505>

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4.1.8. The function of the secretory component of the IgA molecule is

Author: Madison Christian

The function of the secretory component of the IgA molecule is

Please choose only one answer:

- to protect IgA from being destroyed by proteolytic enzymes.
- to coat the antigen.
- opsonization.
- to fix IgA to the antigen.

Check the answer of this question online at QuizOver.com:

Question: [The function of the secretory component Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-function-of-the-secretory-component-madison-christian-mic?pdf=1505>

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4.1.9. Memory cells may take the form of

Author: Madison Christian

Memory cells may take the form of

Please choose only one answer:

- B cells.
- T cytotoxic cells.
- T helper cells.
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

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4.1.10. How long after initiation of a primary response do significant amou...

Author: Madison Christian

How long after initiation of a primary response do significant amounts of antibody appear in the blood?

Please choose only one answer:

- one day
- 10-14 days
- 4 weeks
- 6 months

Check the answer of this question online at QuizOver.com:

Question: [How long after initiation of a primary Madison Christian Micro Quest](#)

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Interactive Question:

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4.1.11. CD4 cells are often

Author: Madison Christian

CD4 cells are often

Please choose only one answer:

- T helper cells.
- T suppresser cells.
- T cytotoxic cells.
- T hypersensitivity cells.

Check the answer of this question online at QuizOver.com:

Question: [CD4 cells are often Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-cd4-cells-are-often-madison-christian-micro-final-practice-3?pdf=1505>

Interactive Question:

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4.1.12. The immunoglobulin monomer consists of

Author: Madison Christian

The immunoglobulin monomer consists of

Please choose only one answer:

- 4 large chains.
- 2 heavy and 2 light chains.
- 5 light chains
- 3 heavy and 3 light chains.

Check the answer of this question online at QuizOver.com:

Question: [The immunoglobulin monomer consists Madison Christian Micro Final](#)

Flashcards:

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4.1.13. Only antigen-presenting cells

Author: Madison Christian

Only antigen-presenting cells

Please choose only one answer:

- produce antibodies.
- activate cytotoxic T cells.
- produce MHC class I molecules.
- produce MHC class II molecules.

Check the answer of this question online at QuizOver.com:

Question: [Only antigen-presenting cells Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-only-antigen-presenting-cells-madison-christian-micro-final-p?pdf=1505>

Interactive Question:

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4.1.14. A physician is seeking ways to increase the fine-tuning of antibody...

Author: Madison Christian

A physician is seeking ways to increase the fine-tuning of antibody immune responses that occurs naturally during affinity maturation. The goal is to create 'super antibodies' with intensely high affinity for antigens. She decides to use a drug that can be injected into lymph nodes that will be highly mutagenic specifically to B-cells that are undergoing activation. Is this a good idea? Why or why not?

Please choose only one answer:

- Introducing a highly mutagenic drug into our systems to boost immunity? Are you nuts? This is going to cause cancer!
- It WILL work, and work well. B-cells naturally have a high degree of mutation in their hypervariable region DNA as they undergo activation, and this is what leads to the possibility of affinity maturation. Boosting that activity will dramatically increase the likelihood of that process.
- It won't work. Affinity maturation is a random mutation process, followed by selection of B cells with higher affinity for the antigen in question. It doesn't matter if you increase the NUMBER of mutations-they still need to be screened for affinity to the antigen, and you can only achieve a certain level of affinity. Beyond that, and any mutations in antibody genes are just 'extra' changes without any real effect.
- The delivery method makes this impractical. It *might* work, but there are many lymph nodes around the body. During an infection, they would ALL be filled with B cells undergoing the process of affinity maturation. How would you deliver the drug to all the lymph nodes in every area of the body?

Check the answer of this question online at QuizOver.com:

Question: [A physician is seeking ways to increase Madison Christian Micro Quest](#)

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4.1.15. Disease(s) in which the causative agent becomes latent is/are

Author: Madison Christian

Disease(s) in which the causative agent becomes latent is/are

Please choose only one answer:

- cold sores.
- genital herpes.
- typhus.
- shingles.
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

Question: [Disease s in which the causative agent Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-disease-s-in-which-the-causative-agent-madison-christian-micr?pdf=1505>

Interactive Question:

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4.1.16. A relationship in which one partner benefits and the other is unaff...

Author: Madison Christian

A relationship in which one partner benefits and the other is unaffected is termed

Please choose only one answer:

- commensalism.
- parasitism.
- independence.
- mutualism.

Check the answer of this question online at QuizOver.com:

Question: [A relationship in which one partner benefits Madison Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-relationship-in-which-one-partner-benefits-madison-micro-fi?pdf=1505>

Interactive Question:

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4.1.17. Which is true about superantigens?

3-26-2013

Author: Madison Christian

Which is true about superantigens?

3-26-2013

Please choose only one answer:

- They are a type of exotoxin.
- They bind simultaneously to MHC class II antigen on an antigen-presenting cell and to the T-cell receptor on a helper T cell.
- They enhance specific antibody production.
- They are processed intracellularly.
- They are a type of exotoxin AND they bind simultaneously to MHC class II antigen on an antigen-presenting cell and to the T-cell receptor on a helper T cell.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Which is true about superantigens 3-26-2 Madison Christian Micro](#)

Flashcards:

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Interactive Question:

<http://www.quizover.com/question/question-which-is-true-about-superantigens-3-26-2-madison-christian-mi?pdf=1505>

4.1.18. Which of the following causes a foodborne intoxication?

Author: Madison Christian

Which of the following causes a foodborne intoxication?

Please choose only one answer:

- Staphylococcus aureus
- coli O157:H7
- Clostridium botulinum
- Mycobacterium tuberculosis
- Staphylococcus aureus, E. coli O157:H7 AND Clostridium botulinum

Check the answer of this question online at QuizOver.com:

Question: [Which of the following causes a foodborne Madison Christian Micro](#)

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Interactive Question:

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4.1.19. The infectious dose

Author: Madison Christian

The infectious dose

Please choose only one answer:

- is the same for all microorganisms.
- may be 10-100 cells for Salmonella.
- is expressed as ID50.
- is defined as the number of microbes necessary to ensure infection.
- is expressed as ID50 AND is defined as the number of microbes necessary to ensure infection.

Check the answer of this question online at QuizOver.com:

Question: [The infectious dose Madison Christian Micro Final Practice 3 Quest](#)

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4.1.20. The first step in the establishment of infection is that the organi...

Author: Madison Christian

The first step in the establishment of infection is that the organism must

Please choose only one answer:

- invade host tissues.
- attach to host cells.
- evade phagocytes.
- produce toxins.

Check the answer of this question online at QuizOver.com:

Question: [The first step in the establishment of Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-first-step-in-the-establishment-of-madison-christian-micr?pdf=1505>

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4.1.21. Organisms that are found together and interact on a more or less pe...

Author: Madison Christian

Organisms that are found together and interact on a more or less permanent basis are in a relationship termed

Please choose only one answer:

- mutualism.
- parasitism.
- symbiosis.
- transient flora.

Check the answer of this question online at QuizOver.com:

Question: [Organisms that are found together and Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-organisms-that-are-found-together-and-madison-christian-micro?pdf=1505>

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4.1.22. The suffix -emia means in the

Author: Madison Christian

The suffix -emia means in the

Please choose only one answer:

- body.
- lymph.
- interstitial tissue.
- blood.

Check the answer of this question online at QuizOver.com:

Question: [The suffix -emia means in the Madison Christian Micro Final Practice](#)

Flashcards:

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4.1.23. The process by which infectious agents are ingested by host cells i...

Author: Madison Christian

The process by which infectious agents are ingested by host cells is termed

Please choose only one answer:

- exocytosis.
- pinocytosis.
- endocytosis.
- phagosome fusion.

Check the answer of this question online at QuizOver.com:

Question: [The process by which infectious agents Madison Christian Micro Quest](#)

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4.1.24. Which of the following would be considered a sign of a disease?

Author: Madison Christian

Which of the following would be considered a sign of a disease?

Please choose only one answer:

- headache
- pain
- nausea
- fever of 39°C

Check the answer of this question online at QuizOver.com:

Question: [Which of the following would be considered Madison Micro Final Quest](#)

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4.1.25. Species of both Shigella and Streptococcus

Author: Madison Christian

Species of both Shigella and Streptococcus

Please choose only one answer:

- invade host cells.
- produce a toxin.
- cause ergot poisoning.
- are delivered via flea bites
- invade host cells AND produce a toxin.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Species of both Shigella and Streptococcus Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-species-of-both-shigella-and-streptococcus-madison-micro-fina?pdf=1505>

Interactive Question:

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4.1.26. Opportunists or opportunistic pathogens

Author: Madison Christian

Opportunists or opportunistic pathogens

Please choose only one answer:

- are usually saprophytes.
- take advantage of special circumstances.
- are usually mutualistic.
- always cause disease.

Check the answer of this question online at QuizOver.com:

Question: [Opportunists or opportunistic pathogens Madison Christian Micro Quest](#)

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4.1.27. Colonization of the body is inhibited by

Author: Madison Christian

Colonization of the body is inhibited by

Please choose only one answer:

- the shedding of skin cells.
- the movement of mucus by cilia.
- peristalsis.
- the flushing action of the urinary tract.
- All of the choices are correct.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Colonization of the body is inhibited by Madison Christian Micro](#)

Flashcards:

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Interactive Question:

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4.1.28. The number of organisms necessary to insure infection is termed the

Author: Madison Christian

The number of organisms necessary to insure infection is termed the

Please choose only one answer:

- infectious dose.
- fatal number.
- minimum lethal dose.
- pathogenic number.

Check the answer of this question online at QuizOver.com:

Question: [The number of organisms necessary to insure Madison Micro Final Quest](#)

Flashcards:

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4.1.29. Which of the following is true about the role normal flora plays in...

Author: Madison Christian

Which of the following is true about the role normal flora plays in maintaining host health?

Please choose only one answer:

- They provide a surface that is incompatible for attachment of an invader.
- They establish competition for nutrients and vitamins.
- They produce antimicrobial substances.
- They stimulate the immune system.
- All of the choices are true.

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4.1.30. A relationship in which one partner benefits and the other is harme...

Author: Madison Christian

A relationship in which one partner benefits and the other is harmed is termed

Please choose only one answer:

- commensalism.
- parasitism.
- independence.
- mutualism.

Check the answer of this question online at QuizOver.com:

Question: [A relationship in which one partner benefits Madison Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-relationship-in-which-one-partner-benefits-madison--9970109?pdf=1505>

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4.1.31. The idea that communicable diseases were caused by the passage of l...

Author: Madison Christian

The idea that communicable diseases were caused by the passage of living things from one person to another was first put forth by

Please choose only one answer:

- Fracastorius.
- Pasteur.
- Thucydides.
- Leeuwenhoek.

Check the answer of this question online at QuizOver.com:

Question: [The idea that communicable diseases were Madison Christian Micro](#)

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4.1.32. Which of the following may be considered virulence factor(s)?

Author: Madison Christian

Which of the following may be considered virulence factor(s)?

Please choose only one answer:

- adhesins
- capsules
- endotoxins
- proteases
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following may be considered Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-may-be-considered-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-may-be-considered-madison-christian-mi?pdf=1505>

4.1.33. The "hygiene hypothesis" proposes that

Author: Madison Christian

The "hygiene hypothesis" proposes that

Please choose only one answer:

- lack of exposure to microbes can promote development of allergies.
- cleanliness truly is next to godliness.
- hand washing is the best preventative measure against infection.
- the immune system develops best in a clean environment.

Check the answer of this question online at QuizOver.com:

Question: [The hygiene hypothesis proposes that Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-hygiene-hypothesis-proposes-that-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-hygiene-hypothesis-proposes-that-madison-christian-micro?pdf=1505>

4.1.34. Avirulent organisms are

Author: Madison Christian

Avirulent organisms are

Please choose only one answer:

- more likely to cause disease.
- more likely to cause severe disease.
- unable to cause disease.
- pathogenic.

Check the answer of this question online at QuizOver.com:

Question: [Avirulent organisms are Madison Christian Micro Final Practice 3](#)

Flashcards:

<http://www.quizover.com/flashcards/question-avirulent-organisms-are-madison-christian-micro-final-practic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-avirulent-organisms-are-madison-christian-micro-final-practic?pdf=1505>

4.1.35. The normal microbiota provides protection against potentially harmf...

Author: Madison Christian

The normal microbiota provides protection against potentially harmful organisms and stimulates the immune system. Why would the immune responses to members of the normal microbiota cross-react with pathogens?

Please choose only one answer:

- Because one person's normal microbiota is another person's pathogen-when we pick up 'normal' microbes from a different person, they will always cause infection within us.
- Because pathogens are oftentimes more virulent strains of our own normal microbial flora, so they will 'look' roughly the same to our immune system (and be acted upon by our immune responses).
- Because the normal flora keeps the adaptive immune responses tuned-up, active, and ready to respond to broad, general categories of microbes (i.e. Gram positive vs. Gram negative microbes, viruses, etc.).
- Because the immune system is a 'use it or lose it' system. If it isn't used on a regular basis, we completely lose the ability to respond to pathogens. The normal flora keeps the system going so that it can be ready to respond to such pathogens when we're exposed to them.

Check the answer of this question online at QuizOver.com:

Question: [The normal microbiota provides protection Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-normal-microbiota-provides-protection-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-normal-microbiota-provides-protection-madison-christian-m?pdf=1505>

4.1.36. Why is it a good strategy for a microbe to adhere to a receptor tha...

Author: Madison Christian

Why is it a good strategy for a microbe to adhere to a receptor that plays a critical function for a host cell?

Please choose only one answer:

- It ISN'T a good strategy-host cells could shift to a backup receptor and shut down production of the main receptor, preventing infection.
- If it's a receptor the cell MUST use, it doesn't have a backup system in place to switch to-so, even though it makes it susceptible to infection, it HAS to put that target out there. This benefits the microbe.
- Microbes want to evade detection and elimination by the immune system-the closer they can adhere to host cells, the less likely they are to trigger destructive immune responses. This would be similar to using a hostage as a shield in a police-standoff situation.
- It ISN'T a good strategy-by binding to receptors, microbes will be phagocytosed by cells and destroyed within them.

Check the answer of this question online at QuizOver.com:

Question: [Why is it a good strategy for a microbe Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-why-is-it-a-good-strategy-for-a-microbe-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-why-is-it-a-good-strategy-for-a-microbe-madison-christian-mic?pdf=1505>

4.1.37. Which of the following does *S. pneumoniae* use to survive in the host?

Author: Madison Christian

Which of the following does *S. pneumoniae* use to survive in the host?

Please choose only one answer:

- plasmids
- pili
- flagella
- capsules

Check the answer of this question online at QuizOver.com:

Question: [Which of the following does S. pneumoniae Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-does-s-pneumoniae-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-does-s-pneumoniae-madison-christian-mi?pdf=1505>

4.1.38. Growth of a parasitic organism in or on the host is referred to as

Author: Madison Christian

Growth of a parasitic organism in or on the host is referred to as

Please choose only one answer:

- colonization.
- infection.
- pathogenism.
- mutualism.

Check the answer of this question online at QuizOver.com:

Question: [Growth of a parasitic organism in or on Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-growth-of-a-parasitic-organism-in-or-on-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-growth-of-a-parasitic-organism-in-or-on-madison-christian-mic?pdf=1505>

4.1.39. Which of the following factors is not considered important for the ...

Author: Madison Christian

Which of the following factors is not considered important for the establishment of an infection?

Please choose only one answer:

- adherence
- dose
- toxicity
- virulence factors

Check the answer of this question online at QuizOver.com:

Question: [Which of the following factors is not Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-factors-is-not-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-factors-is-not-madison-christian-micro?pdf=1505>

4.1.40. The initial work on anaphylaxis was done by

Author: Madison Christian

The initial work on anaphylaxis was done by

Please choose only one answer:

- Watson and Crick.
- Pasteur.
- Fleming.
- Richet and Portier.

Check the answer of this question online at QuizOver.com:

Question: [The initial work on anaphylaxis was done Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-initial-work-on-anaphylaxis-was-done-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-initial-work-on-anaphylaxis-was-done-madison-christian-mi?pdf=1505>

4.1.41. Insulin-dependent diabetes mellitus is an example of an autoimmune ...

Author: Madison Christian

Insulin-dependent diabetes mellitus is an example of an autoimmune disease that involves

Please choose only one answer:

- sensitized T cells.
- cytotoxic T cells.
- antibodies.
- IgD.

Check the answer of this question online at QuizOver.com:

Question: [Insulin-dependent diabetes mellitus is an Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-insulin-dependent-diabetes-mellitus-is-an-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-insulin-dependent-diabetes-mellitus-is-an-madison-christian-m?pdf=1505>

4.1.42. What might be an advantage to using an individual's own stem cells ...

Author: Madison Christian

What might be an advantage to using an individual's own stem cells instead of pancreatic cell allografts to treat Type I diabetes?

Please choose only one answer:

- Stem cells can disable the immune responses that led to the diabetes state in the first place.
- This process should be far cheaper than the surgical intervention needed for the allograft.
- You can't do this-stem cell research is still theoretical, not approved by the FDA, and is currently illegal in the US. As such, there is no advantage.
- If you were able to use a person's own cells, it would be considered an autograft rather than an allograft. As such, there should be no HLA/MHC matching required, and no long-term anti-rejection drugs needed.

Check the answer of this question online at QuizOver.com:

Question: [What might be an advantage to using an Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-might-be-an-advantage-to-using-an-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-might-be-an-advantage-to-using-an-madison-christian-micr?pdf=1505>

4.1.43. Defects in bone marrow stem cells result in a condition known as

Author: Madison Christian

Defects in bone marrow stem cells result in a condition known as

Please choose only one answer:

- SCID.
- AIDS.
- Di George's syndrome.
- Chediak-Higashi disease.

Check the answer of this question online at QuizOver.com:

Question: [Defects in bone marrow stem cells result Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-defects-in-bone-marrow-stem-cells-result-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-defects-in-bone-marrow-stem-cells-result-madison-christian-mi?pdf=1505>

4.1.44. Immune complexes

Author: Madison Christian

Immune complexes

Please choose only one answer:

- consist of antigen-antibody bound together.
- are usually cleared rapidly from the body.
- bind to Fc receptors on cells.
- are involved in Type III hypersensitivity reactions.
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

Question: [Immune complexes Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-immune-complexes-madison-christian-micro-final-practice-3-que?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-immune-complexes-madison-christian-micro-final-practice-3-que?pdf=1505>

4.1.45. To produce an allergic reaction in Type I hypersensitivity, the ant...

Author: Madison Christian

To produce an allergic reaction in Type I hypersensitivity, the antigen

Please choose only one answer:

- must bind to mast cells.
- must bind to free IgE molecules.
- must bind to IgE on mast cells
- must crosslink two IgE molecules on mast cells.

Check the answer of this question online at QuizOver.com:

Question: [To produce an allergic reaction in Type Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-to-produce-an-allergic-reaction-in-type-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-to-produce-an-allergic-reaction-in-type-madison-christian-mic?pdf=1505>

4.1.46. Multiple myeloma is a plasma cell tumor in which a clone of maligna...

Author: Madison Christian

Multiple myeloma is a plasma cell tumor in which a clone of malignant plasma cells produces large amounts of immunoglobulin. With all this excess immunoglobulin, how can a person with multiple myeloma be immunodeficient?

Please choose only one answer:

- All the immunoglobulin produced is most likely specific to one antigen. This limits the ability to respond to the diversity of antigens we encounter.
- The multiplication of the malignant plasma cells may crowd out normal production of other immune cells required for protective responses.
- The massive overproduction of immunoglobulin impairs the kidneys, preventing production of the correct hormones from the kidneys to balance immune system cell production from the bone marrow.
- Through a negative feedback loop, the large amount of immunoglobulin tricks the immune system into thinking it's making a strong response that is needed. As such, it shuts down production of other responses that might truly BE needed to fight off a pathogen.
- All the immunoglobulin produced is most likely specific to one antigen. This limits the ability to respond to the diversity of antigens we encounter AND the multiplication of the malignant plasma cells may crowd out normal production of other immune cells required for protective responses.

Check the answer of this question online at QuizOver.com:

Question: [Multiple myeloma is a plasma cell tumor Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-multiple-myeloma-is-a-plasma-cell-tumor-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-multiple-myeloma-is-a-plasma-cell-tumor-madison-christian-mic?pdf=1505>

4.1.47. IgE molecules involved in hypersensitivity reactions have become at...

Author: Madison Christian

IgE molecules involved in hypersensitivity reactions have become attached to

Please choose only one answer:

- neutrophils.
- mast cells.
- B cells.
- macrophages.
- mast cells AND B cells.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [IgE molecules involved in hypersensitivity Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-ige-molecules-involved-in-hypersensitivity-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-ige-molecules-involved-in-hypersensitivity-madison-micro-fina?pdf=1505>

4.1.48. Cyclosporin A

Author: Madison Christian

Cyclosporin A

Please choose only one answer:

- is a relatively general immunosuppressive agent.
- suppresses T cell proliferation.
- activates macrophages.
- stimulates antibody production.
- is a relatively general immunosuppressive agent AND suppresses T cell proliferation.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Cyclosporin A Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-cyclosporin-a-madison-christian-micro-final-practice-3-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-cyclosporin-a-madison-christian-micro-final-practice-3-quest?pdf=1505>

4.1.49. Regarding a mismatch of either the Rh antigen or the AB antigen, both

Author: Madison Christian

Regarding a mismatch of either the Rh antigen or the AB antigen, both

Please choose only one answer:

- result in destruction of red blood cells.
- utilize complement to destroy red blood cells.
- utilize antibody-dependent cellular cytotoxicity to destroy the red blood cells.
- result in destruction of only leukocytes.

Check the answer of this question online at QuizOver.com:

Question: [Regarding a mismatch of either the Rh Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-regarding-a-mismatch-of-either-the-rh-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-regarding-a-mismatch-of-either-the-rh-madison-christian-micro?pdf=1505>

4.1.50. The natural antibodies in serum that react with A or B polysacchari...

Author: Madison Christian

The natural antibodies in serum that react with A or B polysaccharide antigens are mostly of the class

Please choose only one answer:

- IgG.
- IgE.
- IgM.
- IgD.
- IgA.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The natural antibodies in serum that react Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-natural-antibodies-in-serum-that-react-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-natural-antibodies-in-serum-that-react-madison-micro-fina?pdf=1505>

4.1.51. Gene therapy technology

Author: Madison Christian

Gene therapy technology

Please choose only one answer:

- may be used to generate cells for transplantation.
- may overcome graft rejection.
- may treat cancer.
- may down-regulate the immune response.
- may overcome graft rejections AND may treat cancer.

Check the answer of this question online at QuizOver.com:

Question: [Gene therapy technology Madison Christian Micro Final Practice 3](#)

Flashcards:

<http://www.quizover.com/flashcards/question-gene-therapy-technology-madison-christian-micro-final-practic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-gene-therapy-technology-madison-christian-micro-final-practic?pdf=1505>

4.1.52. Stem cells

Author: Madison Christian

Stem cells

Please choose only one answer:

- have an almost unlimited capacity to divide.
- can differentiate into different tissues.
- may be used to test the effects of drugs on human cells.
- come from fetal material.
- All of the above

Check the answer of this question online at QuizOver.com:

Question: [Stem cells Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-stem-cells-madison-christian-micro-final-practice-3-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-stem-cells-madison-christian-micro-final-practice-3-quest?pdf=1505>

4.1.53. Delayed type hypersensitivity primarily involves

Author: Madison Christian

Delayed type hypersensitivity primarily involves

Please choose only one answer:

- erythrocytes.
- B cells.
- T cells.
- mast cells.

Check the answer of this question online at QuizOver.com:

Question: [Delayed type hypersensitivity primarily Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-delayed-type-hypersensitivity-primarily-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-delayed-type-hypersensitivity-primarily-madison-christian-mic?pdf=1505>

4.1.54. Immunologically privileged sites include the

Author: Madison Christian

Immunologically privileged sites include the

Please choose only one answer:

- brain.
- eyes.
- testes.
- kidney.
- brain, eyes AND testes.

Check the answer of this question online at QuizOver.com:

Question: [Immunologically privileged sites include Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-immunologically-privileged-sites-include-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-immunologically-privileged-sites-include-madison-christian-mi?pdf=1505>

4.1.55. If the thymus fails to develop

Author: Madison Christian

If the thymus fails to develop

Please choose only one answer:

- functional T cells are absent.
- functional B cells are absent.
- Di George's syndrome exists.
- complement deficiencies exist.
- functional T cells are absent AND Di George's syndrome exists.

Check the answer of this question online at QuizOver.com:

Question: [If the thymus fails to develop Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-the-thymus-fails-to-develop-madison-christian-micro-final?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-the-thymus-fails-to-develop-madison-christian-micro-final?pdf=1505>

4.1.56. Graft-versus-host disease is primarily a

Author: Madison Christian

Graft-versus-host disease is primarily a

Please choose only one answer:

- Type I reaction.
- Type II reaction.
- Type III reaction.
- Type IV reaction.
- Type V reaction.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Graft-versus-host disease is primarily a Madison Christian Micro](http://www.quizover.com/question/question-graft-versus-host-disease-is-primarily-a-madison-christian-mi)

Flashcards:

<http://www.quizover.com/flashcards/question-graft-versus-host-disease-is-primarily-a-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-graft-versus-host-disease-is-primarily-a-madison-christian-mi?pdf=1505>

4.1.57. HIV

Author: Madison Christian

HIV

Please choose only one answer:

- appears to cause AIDS.
- is an RNA virus.
- destroys T helper cells.
- makes the patient vulnerable to infections, especially those caused by opportunists.
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

Question: [HIV Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-hiv-madison-christian-micro-final-practice-3-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-hiv-madison-christian-micro-final-practice-3-quest?pdf=1505>

4.1.58. Antibodies that have arisen in the blood plasma without any obvious...

Author: Madison Christian

Antibodies that have arisen in the blood plasma without any obvious or deliberate stimulus are called

Please choose only one answer:

- natural.
- acquired.
- injurious.
- active.

Check the answer of this question online at QuizOver.com:

Question: [Antibodies that have arisen in the blood Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-antibodies-that-have-arisen-in-the-blood-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-antibodies-that-have-arisen-in-the-blood-madison-christian-mi?pdf=1505>

4.1.59. Secondary immunodeficiency disease is not the result of

Author: Madison Christian

Secondary immunodeficiency disease is not the result of

Please choose only one answer:

- genetic defects.
- malignancies.
- advanced age.
- malnutrition.

Check the answer of this question online at QuizOver.com:

Question: [Secondary immunodeficiency disease is not Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-secondary-immunodeficiency-disease-is-not-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-secondary-immunodeficiency-disease-is-not-madison-christian-m?pdf=1505>

4.1.60. Localized injury or death of tissue resulting from repeated injecti...

Author: Madison Christian

Localized injury or death of tissue resulting from repeated injections of an antigen into a person with high levels of circulating specific antibody is known as

Please choose only one answer:

- farmer's lung.
- German measles.
- serum sickness.
- an Arthus reaction.

Check the answer of this question online at QuizOver.com:

Question: [Localized injury or death of tissue Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-localized-injury-or-death-of-tissue-madison-christian-micro-f?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-localized-injury-or-death-of-tissue-madison-christian-micro-f?pdf=1505>

4.1.61. Killing of graft cells occurs through a complex series of mechanism...

Author: Madison Christian

Killing of graft cells occurs through a complex series of mechanisms including

Please choose only one answer:

- sensitized T cytotoxic cells.
- NK cells.
- erythrocytic cells.
- basophilic cells.
- sensitized T cytotoxic cells AND NK cells.

Check the answer of this question online at QuizOver.com:

Question: [Killing of graft cells occurs through a Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-killing-of-graft-cells-occurs-through-a-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-killing-of-graft-cells-occurs-through-a-madison-christian-mic?pdf=1505>

4.1.62. What is NOT a reason that the kidneys are particularly prone to dam...

Author: Madison Christian

What is NOT a reason that the kidneys are particularly prone to damage caused by immune complexes?

Please choose only one answer:

- Kidney blood vessel wall cells have receptors for antibodies on them, which makes them soak up antibodies (or in this case, immune complexes) from the bloodstream. This blocks the kidneys up and causes them to malfunction and become damaged.
- Blood is pushed through the kidneys at a very high pressure-any blockage of the vessels (such as what might be caused by immune complex deposits) can lead to ruptures/inflammation and damage.
- While blood vessel walls do NOT have receptors for antibodies, large immune complexes forced through small diameter vessels can become embedded within them. This can trigger complement system inflammation and cell destruction.
- Trapped immune complexes that initiate inflammation can attract neutrophils. The neutrophils degranulate in the area of the immune complexes, leading to cell/tissue destruction.

Check the answer of this question online at QuizOver.com:

Question: [What is NOT a reason that the kidneys are Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-is-not-a-reason-that-the-kidneys-are-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-is-not-a-reason-that-the-kidneys-are-madison-christian-m?pdf=1505>

4.1.63. Hemolytic disease of the newborn

Author: Madison Christian

Hemolytic disease of the newborn

Please choose only one answer:

- may not manifest itself fully until after birth.
- is due to the action of IgM.
- is due to the action of IgE.
- is a Type I hypersensitivity reaction.
- may not manifest itself fully until after birth AND is due to the action of IgE.

Check the answer of this question online at QuizOver.com:

Question: [Hemolytic disease of the newborn Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-hemolytic-disease-of-the-newborn-madison-christian-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-hemolytic-disease-of-the-newborn-madison-christian-micro-fina?pdf=1505>

4.1.64. The condition that results from ineffective digestion after phagocy...

Author: Madison Christian

The condition that results from ineffective digestion after phagocytosis is

Please choose only one answer:

- AIDS.
- Chediak-Higashi disease.
- Di George's syndrome.
- agammaglobulinemia.

Check the answer of this question online at QuizOver.com:

Question: [The condition that results from ineffective Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-condition-that-results-from-ineffective-madison-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-condition-that-results-from-ineffective-madison-micro-fin?pdf=1505>

4.1.65. The condition that results from ineffective digestion after phagocy...

Author: Madison Christian

The condition that results from ineffective digestion after phagocytosis is

Please choose only one answer:

- AIDS.
- Chediak-Higashi disease.
- Di George's syndrome.
- agammaglobulinemia.

Check the answer of this question online at QuizOver.com:

Question: [The condition that results from ineffective Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-condition-that-results-from-ineffective-madison-m-1942770?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-condition-that-results-from-ineffective-madison-m-1942770?pdf=1505>

4.1.66. Would antibodies produced by a patient in response to infection be ...

Author: Madison Christian

Would antibodies produced by a patient in response to infection be monoclonal, or polyclonal?

Please choose only one answer:

- Since the infection is from only a single agent/microbe, the antibodies would be monoclonal.
- Since a single pathogen has multiple antigens, and each antigen has multiple epitopes, the responding antibodies to a whole pathogen would be polyclonal.
- Since the pathogen would most likely mutate slightly during the infection (producing different epitopes), the responding antibodies would be polyclonal.
- Since the pathogen would acquire and modify self-antigens during the infectious process, the antibodies produced during the response would be polyclonal.

Check the answer of this question online at QuizOver.com:

Question: [Would antibodies produced by a patient in Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-would-antibodies-produced-by-a-patient-in-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-would-antibodies-produced-by-a-patient-in-madison-christian-m?pdf=1505>

4.1.67. Attenuated agents are

Author: Madison Christian

Attenuated agents are

Please choose only one answer:

- dead viruses.
- toxins.
- weakened but replicating microbes.
- parts of an organism.

Check the answer of this question online at QuizOver.com:

Question: [Attenuated agents are Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-attenuated-agents-are-madison-christian-micro-final-practice?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-attenuated-agents-are-madison-christian-micro-final-practice?pdf=1505>

4.1.68. Monoclonal antibodies may be used in the rapid diagnosis of

Author: Madison Christian

Monoclonal antibodies may be used in the rapid diagnosis of

Please choose only one answer:

- pregnancy.
- hepatitis.
- influenza.
- chlamydia.
- All of the choices are correct.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Monoclonal antibodies may be used in the Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-monoclonal-antibodies-may-be-used-in-the-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-monoclonal-antibodies-may-be-used-in-the-madison-christian-mi?pdf=1505>

4.1.69. Whole agent vaccines may contain

Author: Madison Christian

Whole agent vaccines may contain

Please choose only one answer:

- viruses.
- bacteria.
- toxins.
- polysaccharides.
- viruses AND bacteria.

Check the answer of this question online at QuizOver.com:

Question: [Whole agent vaccines may contain Madison Christian Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-whole-agent-vaccines-may-contain-madison-christian-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-whole-agent-vaccines-may-contain-madison-christian-micro-fina?pdf=1505>

4.1.70. Monoclonal antibodies obtained from a hybridoma provide

Author: Madison Christian

Monoclonal antibodies obtained from a hybridoma provide

Please choose only one answer:

- a large amount of an antibody that is specific for a particular antigen.
- a single antibody that recognizes many antigens.
- many antigens that recognize a specific antibody.
- a large number of B cells.

Check the answer of this question online at QuizOver.com:

Question: [Monoclonal antibodies obtained from a Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-monoclonal-antibodies-obtained-from-a-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-monoclonal-antibodies-obtained-from-a-madison-christian-micro?pdf=1505>

4.1.71. What would be a primary advantage of passive immunity with diseases...

Author: Madison Christian

What would be a primary advantage of passive immunity with diseases such as tetanus or botulism?

Please choose only one answer:

- Time. You can quickly neutralize the toxin with a passive administration of antibodies to save the patient's life when no is available for them to make their own active immune response.
- Cost. It's far cheaper to administer a dose of antibodies harvested from the serum of an actively-immunized animal or human than it is to administer a vaccine.
- Safety of delivery. It's far safer to administer a dose of antibodies harvested from the serum of an actively-immunized animal or human than it is to administer a vaccine.
- Handling of treatment. It's difficult to keep vaccines stored properly to keep their potency, especially in 3rd world countries without adequate 'cold chains' for transport into jungles and deserts. It's much easier to keep a batch of antibodies stable, even in extremes of heat and humidity.

Check the answer of this question online at QuizOver.com:

Question: [What would be a primary advantage of Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-would-be-a-primary-advantage-of-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-would-be-a-primary-advantage-of-madison-christian-micro?pdf=1505>

4.1.72. A recombinant vaccine is used to protect against

Author: Madison Christian

A recombinant vaccine is used to protect against

Please choose only one answer:

- polio.
- diphtheria.
- hepatitis B.
- pertussis.

Check the answer of this question online at QuizOver.com:

Question: [A recombinant vaccine is used to protect Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-a-recombinant-vaccine-is-used-to-protect-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-a-recombinant-vaccine-is-used-to-protect-madison-christian-mi?pdf=1505>

4.1.73. The last case of naturally contracted smallpox occurred in

Author: Madison Christian

The last case of naturally contracted smallpox occurred in

Please choose only one answer:

- 1900.
- 1950.
- 1965.
- 1977.
- 1989.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The last case of naturally contracted Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-last-case-of-naturally-contracted-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-last-case-of-naturally-contracted-madison-christian-micro?pdf=1505>

4.1.74. What would be a primary advantage of using an attenuated agent rather than just an antigen from that agent for a vaccine?

Author: Madison Christian

What would be a primary advantage of using an attenuated agent rather than just an antigen from that agent for a vaccine?

Please choose only one answer:

- This is actually a disadvantage-it's much more dangerous to use an attenuated agent over a subunit (single antigen) vaccine due to the possibility of reversion of the microbe to a pathogenic state.
- An attenuated agent strongly stimulates ONLY the antibody production (humoral response) of the adaptive immune system. This provides the best and strongest long-term protection.
- An attenuated agent strongly stimulates ONLY the cytotoxic T cell (CTL, cell-mediated) side of the adaptive immune system. This provides the best and strongest long-term protection.
- An attenuated agent strongly stimulates both the humoral (antibody) AND cell-mediated (T cell) portions of the adaptive immune response, giving the best comprehensive long-term protection available.

Check the answer of this question online at QuizOver.com:

Question: [What would be a primary advantage of using Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-what-would-be-a-primary-advantage-of-using-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-what-would-be-a-primary-advantage-of-using-madison-micro-fina?pdf=1505>

4.1.75. Toxoids are used in vaccines against

Author: Madison Christian

Toxoids are used in vaccines against

Please choose only one answer:

- Haemophilus influenza type b.
- diphtheria.
- herpes simplex type I.
- polio.
- diphtheria AND herpes simplex type I.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Toxoids are used in vaccines against Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-toxoids-are-used-in-vaccines-against-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-toxoids-are-used-in-vaccines-against-madison-christian-micro?pdf=1505>

4.1.76. DNA vaccines work by

Author: Madison Christian

DNA vaccines work by

Please choose only one answer:

- stimulating production of antibodies against DNA.
- stimulating interferon production.
- inactivating the host DNA.
- having the cell use the introduced DNA to make the microbial protein antigen.

Check the answer of this question online at QuizOver.com:

Question: [DNA vaccines work by Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-dna-vaccines-work-by-madison-christian-micro-final-practice-3?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-dna-vaccines-work-by-madison-christian-micro-final-practice-3?pdf=1505>

4.1.77. Almost all of the antibodies found in a newborn are

Author: Madison Christian

Almost all of the antibodies found in a newborn are

Please choose only one answer:

- the result of infection.
- self-made.
- IgM.
- the result of passive immunity.

Check the answer of this question online at QuizOver.com:

Question: [Almost all of the antibodies found in a Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-almost-all-of-the-antibodies-found-in-a-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-almost-all-of-the-antibodies-found-in-a-madison-christian-mic?pdf=1505>

4.1.78. Variolation is a procedure once used to protect against

Author: Madison Christian

Variolation is a procedure once used to protect against

Please choose only one answer:

- measles.
- bubonic plague.
- rabies.
- smallpox.

Check the answer of this question online at QuizOver.com:

Question: [Variolation is a procedure once used to Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-variolation-is-a-procedure-once-used-to-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-variolation-is-a-procedure-once-used-to-madison-christian-mic?pdf=1505>

4.1.79. The serology test that may show the antigen-antibody complex as yel...

Author: Madison Christian

The serology test that may show the antigen-antibody complex as yellow-green under the microscope while using an ultraviolet light is known as the

Please choose only one answer:

- radioimmunoassay.
- fluorescent antibody test.
- ELISA test.
- AIDS test.

Check the answer of this question online at QuizOver.com:

Question: [The serology test that may show the antigen Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-serology-test-that-may-show-the-antigen-madison-micro-fin?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-serology-test-that-may-show-the-antigen-madison-micro-fin?pdf=1505>

4.1.80. Which antibodies cross the placenta and protect the fetus?

Author: Madison Christian

Which antibodies cross the placenta and protect the fetus?

Please choose only one answer:

- IgA
- IgG
- IgM
- IgD

Check the answer of this question online at QuizOver.com:

Question: [Which antibodies cross the placenta and Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-antibodies-cross-the-placenta-and-madison-christian-mic?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-antibodies-cross-the-placenta-and-madison-christian-mic?pdf=1505>

4.1.81. Anti-human-gamma-globulin antiserum is often used in

Author: Madison Christian

Anti-human-gamma-globulin antiserum is often used in

Please choose only one answer:

- direct fluorescent antibody tests.
- complement fixation test.
- radioimmunoassay.
- indirect fluorescent antibody tests.

Check the answer of this question online at QuizOver.com:

Question: [Anti-human-gamma-globulin antiserum is Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-anti-human-gamma-globulin-antiserum-is-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-anti-human-gamma-globulin-antiserum-is-madison-christian-micr?pdf=1505>

4.1.82. For which of the following childhood diseases is a subunit vaccine ...

Author: Madison Christian

For which of the following childhood diseases is a subunit vaccine recommended?

Please choose only one answer:

- polio
- measles
- hepatitis B
- pertussis

Check the answer of this question online at QuizOver.com:

Question: [For which of the following childhood Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-for-which-of-the-following-childhood-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-for-which-of-the-following-childhood-madison-christian-micro?pdf=1505>

4.1.83. The change from negative serum, without antibodies specific to an i...

Author: Madison Christian

The change from negative serum, without antibodies specific to an infecting agent, to positive serum, containing antibodies against that infecting agent, is called

Please choose only one answer:

- ELISA.
- complement fixation.
- seroconversion.
- RIA.

Check the answer of this question online at QuizOver.com:

Question: [The change from negative serum without Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-change-from-negative-serum-without-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-change-from-negative-serum-without-madison-christian-micr?pdf=1505>

4.1.84. Which type of vaccine has been used in place of inactivated whole c...

Author: Madison Christian

Which type of vaccine has been used in place of inactivated whole cell vaccine?

Please choose only one answer:

- acellular subunit
- whole cell attenuated
- adjuvant
- toxin

Check the answer of this question online at QuizOver.com:

Question: [Which type of vaccine has been used in Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-type-of-vaccine-has-been-used-in-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-type-of-vaccine-has-been-used-in-madison-christian-micr?pdf=1505>

4.1.85. Herd immunity

Author: Madison Christian

Herd immunity

Please choose only one answer:

- only occurs in a population in which all individuals are immune.
- occurs in a population in which a large percentage of the population is immune.
- only provides protection to those that are already immune.
- is responsible for dramatic increases in childhood diseases.
- occurs in a population in which a large percentage of the population is immune AND is responsible for dramatic increases in childhood diseases.

Check the answer of this question online at QuizOver.com:

Question: [Herd immunity Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-herd-immunity-madison-christian-micro-final-practice-3-quest?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-herd-immunity-madison-christian-micro-final-practice-3-quest?pdf=1505>

4.1.86. The most common adjuvant is

Author: Madison Christian

The most common adjuvant is

Please choose only one answer:

- ethanol.
- formalin.
- alum.
- aluminum.
- alum AND aluminum.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [The most common adjuvant is Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-most-common-adjuvant-is-madison-christian-micro-final-pra?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-most-common-adjuvant-is-madison-christian-micro-final-pra?pdf=1505>

4.1.87. Injection of a single antigen usually results in production of

Author: Madison Christian

Injection of a single antigen usually results in production of

Please choose only one answer:

- antibody to a single epitope.
- an antibody that recognizes several epitopes.
- additional antigen.
- a number of antibodies each recognizing a different epitope.

Check the answer of this question online at QuizOver.com:

Question: [Injection of a single antigen usually Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-injection-of-a-single-antigen-usually-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-injection-of-a-single-antigen-usually-madison-christian-micro?pdf=1505>

4.1.88. Which plant has been used to deliver vaccine?

Author: Madison Christian

Which plant has been used to deliver vaccine?

Please choose only one answer:

- peanuts
- lima beans
- spinach
- potatoes

Check the answer of this question online at QuizOver.com:

Question: [Which plant has been used to deliver Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-plant-has-been-used-to-deliver-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-plant-has-been-used-to-deliver-madison-christian-micro?pdf=1505>

4.1.89. Attenuated agents

Author: Madison Christian

Attenuated agents

Please choose only one answer:

- may induce immunity after a single dose.
- may cause disease in immunocompromised individuals.
- multiply in the body.
- may revert or mutate to disease-causing strains.
- All of the choices are correct.

Check the answer of this question online at [QuizOver.com](http://www.quizover.com):

Question: [Attenuated agents Madison Christian Micro Final Practice 3 Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-attenuated-agents-madison-christian-micro-final-practice-3-qu?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-attenuated-agents-madison-christian-micro-final-practice-3-qu?pdf=1505>

4.1.90. If the number of people who become ill during an epidemic rises gra...

Author: Madison Christian

If the number of people who become ill during an epidemic rises gradually, this is called a(n)

Please choose only one answer:

- propagated epidemic.
- promulgated epidemic.
- common source epidemic.
- index epidemic.

Check the answer of this question online at QuizOver.com:

Question: [If the number of people who become ill Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-the-number-of-people-who-become-ill-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-the-number-of-people-who-become-ill-madison-christian-micr?pdf=1505>

4.1.91. An epidemic that spreads worldwide is called a(n)

Author: Madison Christian

An epidemic that spreads worldwide is called a(n)

Please choose only one answer:

- epidemical.
- endemic.
- pandemic.
- syndemic.

Check the answer of this question online at QuizOver.com:

Question: [An epidemic that spreads worldwide is Madison Christian Micro Final](#)

Flashcards:

<http://www.quizover.com/flashcards/question-an-epidemic-that-spreads-worldwide-is-madison-christian-micro?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-an-epidemic-that-spreads-worldwide-is-madison-christian-micro?pdf=1505>

4.1.92. If the number of people who become ill during an epidemic rises and...

Author: Madison Christian

If the number of people who become ill during an epidemic rises and falls rapidly, this is called a(n)

Please choose only one answer:

- propagated epidemic.
- promulgated epidemic.
- common source epidemic.
- index epidemic.

Check the answer of this question online at QuizOver.com:

Question: [If the number of people who become ill Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-if-the-number-of-people-who-become-ill-madison-christ-3404575?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-if-the-number-of-people-who-become-ill-madison-christ-3404575?pdf=1505>

4.1.93. The type of epidemiological study that determines the characteristi...

Author: Madison Christian

The type of epidemiological study that determines the characteristics of the persons involved and the time and place of the outbreak is called a(n)

Please choose only one answer:

- inspection study.
- descriptive study.
- cohortive study.
- retrospective study.

Check the answer of this question online at QuizOver.com:

Question: [The type of epidemiological study that Madison Christian Micro Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-type-of-epidemiological-study-that-madison-christian-micr?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-type-of-epidemiological-study-that-madison-christian-micr?pdf=1505>

4.1.94. The first identified case in an outbreak is called the

Author: Madison Christian

The first identified case in an outbreak is called the

Please choose only one answer:

- starter case.
- traceable case.
- primary case.
- index case.

Check the answer of this question online at QuizOver.com:

Question: [The first identified case in an outbreak Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-first-identified-case-in-an-outbreak-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-first-identified-case-in-an-outbreak-madison-christian-mi?pdf=1505>

4.1.95. Droplet nuclei typically travel no farther from point of release than

Author: Madison Christian

Droplet nuclei typically travel no farther from point of release than

Please choose only one answer:

- 3 meters.
- 5 meters.
- 1 meter.
- They are suspended indefinitely.

Check the answer of this question online at QuizOver.com:

Question: [Droplet nuclei typically travel no farther Madison Micro Final Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-droplet-nuclei-typically-travel-no-farther-madison-micro-fina?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-droplet-nuclei-typically-travel-no-farther-madison-micro-fina?pdf=1505>

4.1.96. Which of the following may be associated with nosocomial disease?

Author: Madison Christian

Which of the following may be associated with nosocomial disease?

Please choose only one answer:

- Enterococcus species.
- Escherichia coli.
- Pseudomonas species.
- Staphylococcus aureus.
- All of the choices are correct.

Check the answer of this question online at QuizOver.com:

Question: [Which of the following may be associated Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-which-of-the-following-may-be-associated-madison-christian-mi?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-which-of-the-following-may-be-associated-madison-christian-mi?pdf=1505>

4.1.97. The threat of bioterrorism

Author: Madison Christian

The threat of bioterrorism

Please choose only one answer:

- is due largely to the ease of spread and severity of diseases.
- is exaggerated in light of the efficiency of our healthcare system.
- may include rarely seen infectious agents.
- has prompted WHO to prepare a readiness plan.
- is due largely to the ease of spread and severity of diseases AND may include rarely seen infectious agents.

Check the answer of this question online at QuizOver.com:

Question: [The threat of bioterrorism Madison Christian Micro Final Practice](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-threat-of-bioterrorism-madison-christian-micro-final-prac?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-threat-of-bioterrorism-madison-christian-micro-final-prac?pdf=1505>

4.1.98. The fraction of a population who die from a specific disease is called

Author: Madison Christian

The fraction of a population who die from a specific disease is called

Please choose only one answer:

- mortality rate.
- morbidity rate.
- attack rate.
- incidence rate.

Check the answer of this question online at QuizOver.com:

Question: [The fraction of a population who die from Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-fraction-of-a-population-who-die-from-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-fraction-of-a-population-who-die-from-madison-christian-m?pdf=1505>

4.1.99. The period of time between exposure to an agent and the onset of di...

Author: Madison Christian

The period of time between exposure to an agent and the onset of disease signs and symptoms is called the

Please choose only one answer:

- prodromal phase.
- decline phase.
- incubation period.
- lag phase.

Check the answer of this question online at QuizOver.com:

Question: [The period of time between exposure to an Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-period-of-time-between-exposure-to-an-madison-christian-m?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-period-of-time-between-exposure-to-an-madison-christian-m?pdf=1505>

4.1.100. Inanimate objects capable of transferring infectious disease agents...

Author: Madison Christian

Inanimate objects capable of transferring infectious disease agents are

Please choose only one answer:

- vectors.
- fomites.
- vehicles.
- reservoirs.

Check the answer of this question online at QuizOver.com:

Question: [Inanimate objects capable of transferring Madison Christian Micro](#)

Flashcards:

<http://www.quizover.com/flashcards/question-inanimate-objects-capable-of-transferring-madison-christian-m?pdf=1505>

Interactive Question:

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