

# Natural Sciences

## Biology

## Microbiology

## Unit 3

Author: Madison Christian

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## 4. Chapter: Microbiology Unit 3

### 1. Microbiology Unit 3 Questions

#### 4.1.1. The relatedness of organisms determined by counting common characte...

Author: Madison Christian

The relatedness of organisms determined by counting common characteristics is called

Please choose only one answer:

- evolutionary taxonomy.
- amino acid sequences.
- DNA sequences.
- numerical taxonomy.
- suggests the organisms are very closely related at the species level AND means the GC content is 45%.

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

Question: [The relatedness of organisms determined Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/the-relatedness-of-organisms-determined-madison-christian-microbiology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-relatedness-of-organisms-determined-madison-christian-microbiology?pdf=1505>

#### 4.1.2. The point at which two organisms diverged from a common ancestor

Author: Madison Christian

The point at which two organisms diverged from a common ancestor

Please choose only one answer:

- can be determined by comparing the nucleic acid sequences
- depends on translational control.
- depends on metabolism.
- s determined on MacConkeys media.

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

Question: [The point at which two organisms diverged Madison Christian Microbiology](#)

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#### 4.1.3. In the 1930s Kluver and van Niel proposed a classification scheme ...

Author: Madison Christian

In the 1930s Kluver and van Niel proposed a classification scheme based on

Please choose only one answer:

- Gram reactions.
- biochemical relationships.
- presumed evolutionary relationships.
- DNA sequences.

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

Question: [In the 1930s Kluver and van Niel proposed Madison Microbiology Quest](#)

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#### 4.1.4. Intracellular Gram-negative diplococci found in a urethral sample f...

Author: Madison Christian

Intracellular Gram-negative diplococci found in a urethral sample from a male is indicative of

Please choose only one answer:

- coli.
- Pseudomonas.
- Streptococcus pneumoniae.
- Neisseria gonorrhoea.

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

Question: [Intracellular Gram-negative diplococci Madison Christian Microbiology](#)

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<http://www.quizover.com/flashcards/question-intracellular-gram-negative-diplococci-madison-christian-micr?pdf=1505>

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#### 4.1.5. In 1970 Stanier proposed that classification be based on

Author: Madison Christian

In 1970 Stanier proposed that classification be based on

Please choose only one answer:

- evolution.
- Gram stain.
- physiology.
- DNA sequence.

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

Question: [In 1970 Stanier proposed that classification Madison Microbiology](#)

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#### 4.1.6. Media that changes color as a result of the biochemical activity of...

Author: Madison Christian

Media that changes color as a result of the biochemical activity of growing bacteria

Please choose only one answer:

- usually contain a pH indicator in the media.
- usually contain blood.
- usually require the addition of various reagents before the color is evident.
- is due to a breakdown of a colorless reagent.

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

Question: [Media that changes color as a result of Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/media-that-changes-color-as-a-result-of-madison-christian-microbiology?pdf=1505>

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#### 4.1.7. To study the phylogeny of eukaryotes

Author: Madison Christian

To study the phylogeny of eukaryotes

Please choose only one answer:

- 16S rRNA is used.
- 34S rRNA is used.
- 80S rRNA is used.
- 18S rRNA is used.

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

Question: [To study the phylogeny of eukaryotes Madison Christian Microbiology](#)

Flashcards:

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4.1.8. The more closely related two organisms are,

Author: Madison Christian

The more closely related two organisms are,

Please choose only one answer:

- the less they look alike.
- the more similar the nucleic acid sequence.
- the less similar the nucleic acid sequence.
- the more they are phenotypically similar.
- the more similar the nucleic acid sequence AND the more they are phenotypically similar.

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

Question: [The more closely related two organisms Madison Christian Microbiology](#)

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#### 4.1.9. Mycobacterium tuberculosis is one of the few species of bacteria that

Author: Madison Christian

Mycobacterium tuberculosis is one of the few species of bacteria that

Please choose only one answer:

- are encapsulated.
- stain Gram-negative.
- are acid fast.
- stain Gram-positive.

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

Question: [Mycobacterium tuberculosis is one of the Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/mycobacterium-tuberculosis-is-one-of-the-madison-christian-microbiolog?pdf=1505>

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#### 4.1.10. The basic taxonomic unit in the classification scheme of plants and...

Author: Madison Christian

The basic taxonomic unit in the classification scheme of plants and animals is

Please choose only one answer:

- kingdom.
- class.
- order.
- genus.
- species.

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

Question: [The basic taxonomic unit in the classification Madison Microbiology](#)

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#### 4.1.11. Strain differences are helpful in

Author: Madison Christian

Strain differences are helpful in

Please choose only one answer:

- replica plating.
- electrophoresis.
- transformation.
- transduction.
- tracing the source of outbreaks of disease.

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

Question: [Strain differences are helpful in Madison Christian Microbiology](#)

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#### 4.1.12. A breath test assaying for radioactive carbon dioxide may be used t...

Author: Madison Christian

A breath test assaying for radioactive carbon dioxide may be used to indicate the presence of

Please choose only one answer:

- coli.
- Pseudomonas.
- Streptococcus pyogenes.
- Helicobacter pylori.

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

Question: [A breath test assaying for radioactive Madison Christian Microbiology](#)

Flashcards:

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#### 4.1.13. If the GC content of two organisms is 45% in both

Author: Madison Christian

If the GC content of two organisms is 45% in both

Please choose only one answer:

- they are definitely related.
- they are definitely not related.
- they may or may not be related.
- the AT content is 65%.
- they are definitely related AND the AT content is 65%.

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

Question: [If the GC content of two organisms is 45 Madison Christian Microbiology](#)

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#### 4.1.14. Phage typing

Author: Madison Christian

#### Phage typing

Please choose only one answer:

- is useful for determining eukaryotic cell types.
- is used to extract DNA from cells.
- is used to distinguish bacterial strains.
- is dependent on the type of eukaryotic cell.
- is used to distinguish bacterial strains AND is dependent on the type of eukaryotic cell.

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

Question: [Phage typing Madison Christian Microbiology Chapter 10/11 - Unit](#)

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#### 4.1.15. A selective growth medium

Author: Madison Christian

A selective growth medium

Please choose only one answer:

- allows only certain bacteria to grow.
- allows all bacteria to grow.
- allows no bacteria to grow.
- accentuates differences between the growing bacteria.

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

Question: [A selective growth medium Madison Christian Microbiology Chapter](#)

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#### 4.1.16. A soluble greenish pigment is produced by

Author: Madison Christian

A soluble greenish pigment is produced by

Please choose only one answer:

- Serratia marcescens.
- coli.
- Pseudomonas aeruginosa.
- streptococci.

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

Question: [A soluble greenish pigment is produced Madison Christian Microbiology](#)

Flashcards:

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#### 4.1.17. In E. coli O157:H7, the O157:H7 refers to the

Author: Madison Christian

In E. coli O157:H7, the O157:H7 refers to the

Please choose only one answer:

- specific type of DNA present.
- specific genus.
- general family.
- the specific LPS and flagella type present.

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

Question: [In E. coli O157:H7 the O157:H7 refers to Madison Christian Microbiology](#)

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Interactive Question:

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#### 4.1.18. API, Enterotube, and Vitek are all

Author: Madison Christian

API, Enterotube, and Vitek are all

Please choose only one answer:

- methods for extracting DNA from bacteria.
- used to measure gas production.
- commercially available methods used to identify bacteria.
- used to show the presence of bacteria in a sample.

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

Question: [API Enterotube and Vitek are all Madison Christian Microbiology Quest](#)

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#### 4.1.19. Various strains of E. coli

Author: Madison Christian

Various strains of E. coli

Please choose only one answer:

- may cause disease.
- may be harmless.
- are all exactly the same.
- are all very different from one another.
- may cause disease AND may be harmless.

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

Question: [Various strains of E. coli Madison Christian Microbiology Chapter](#)

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#### 4.1.20. In higher organisms, successful mating can occur between members of...

Author: Madison Christian

In higher organisms, successful mating can occur between members of the same

Please choose only one answer:

- genus.
- species.
- class.
- order.

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

Question: [In higher organisms successful mating can Madison Christian Microbiology](#)

Flashcards:

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#### 4.1.21. A DNA similarity of 75% between two organisms

Author: Madison Christian

A DNA similarity of 75% between two organisms

Please choose only one answer:

- suggests the organisms are very closely related at the species level.
- suggests the organisms are not related.
- suggests the organisms may or may not be related.
- means the GC content is 45%.

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

Question: [A DNA similarity of 75 between two organisms Madison Microbiology](#)

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#### 4.1.22. An early attempt by Cohn at bacterial classification grouped bacter...

Author: Madison Christian

An early attempt by Cohn at bacterial classification grouped bacteria according to their

Please choose only one answer:

- biochemistry.
- Gram stain.
- shape.
- arrangement.

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

Question: [An early attempt by Cohn at bacterial Madison Christian Microbiology](#)

Flashcards:

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#### 4.1.23. The purple sulfur and green sulfur bacteria

Author: Madison Christian

The purple sulfur and green sulfur bacteria

Please choose only one answer:

- both use hydrogen sulfide as a source of electrons.
- generate oxygen.
- preferentially use organic molecules as an electron source.
- both lack gas vesicles.

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

Question: [The purple sulfur and green sulfur bacteria Madison Microbiology](#)

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#### 4.1.24. Comparatively greater energy is released when

Author: Madison Christian

Comparatively greater energy is released when

Please choose only one answer:

- carbon dioxide is the final electron acceptor.
- hydrogen is the final electron acceptor.
- nitrate is the final electron acceptor.
- oxygen is the final electron acceptor.

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

Question: [Comparatively greater energy is released Madison Christian Microbiology](#)

Flashcards:

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## 4.1.25. Luminescence

Author: Madison Christian

### Luminescence

Please choose only one answer:

- is catalyzed by luciferase.
- may be controlled by quorum sensing.
- may be produced by bacteria.
- All of the choices are correct.

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

Question: [Luminescence Madison Christian Microbiology Chapter 10/11 - Unit](#)

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#### 4.1.26. Complex structures called fruiting bodies are a characteristic of

Author: Madison Christian

Complex structures called fruiting bodies are a characteristic of

Please choose only one answer:

- Clostridia.
- myxobacteria.
- Streptomyces.
- lactic acid bacteria.

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

Question: [Complex structures called fruiting bodies Madison Christian Microbiology](#)

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#### 4.1.27. Streptococcus pyogenes

Author: Madison Christian

Streptococcus pyogenes

Please choose only one answer:

- is alpha-hemolytic.
- is gamma-hemolytic.
- is beta-hemolytic.
- may form endospores.
- is alpha-hemolytic AND may form endospores.

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

Question: [Streptococcus pyogenes Madison Christian Microbiology Chapter 10/](#)

Flashcards:

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Interactive Question:

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#### 4.1.28. Wolbachia are found only in

Author: Madison Christian

Wolbachia are found only in

Please choose only one answer:

- hot springs.
- plants.
- mammals.
- arthropods.

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

Question: [Wolbachia are found only in Madison Christian Microbiology Chapter](#)

Flashcards:

<http://www.quizover.com/flashcards/question-wolbachia-are-found-only-in-madison-christian-microbiology-ch?pdf=1505>

Interactive Question:

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4.1.29. Archaea are typically found living in extreme environments. An exce...

Author: Madison Christian

Archaea are typically found living in extreme environments. An exception to this are the

Please choose only one answer:

- sulfur-oxidizing archaea.
- sulfur-reducing archaea.
- methanogens.
- sulfur-oxidizing archaea AND sulfur-reducing archaea.

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

Question: [Archaea are typically found living in Madison Christian Microbiology](#)

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#### 4.1.30. Which of the following colonize the vagina during childbearing years?

Author: Madison Christian

Which of the following colonize the vagina during childbearing years?

Please choose only one answer:

- Streptococci
- Clostridium
- Lactobacilli
- Enterobacter
- Clostridium AND Lactobacilli

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

Question: [Which of the following colonize the vagina Madison Microbiology Quest](#)

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## 4.1.31. Cyanobacteria

Author: Madison Christian

### Cyanobacteria

Please choose only one answer:

- are a form of algae.
- are prokaryotes.
- use hydrogen sulfide as an electron source.
- are eukaryotes.

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

Question: [Cyanobacteria Madison Christian Microbiology Chapter 10/11 - Unit](#)

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## 4.1.32. Endospores

Author: Madison Christian

### Endospores

Please choose only one answer:

- are a form of reproduction.
- are a dormant form of a bacterium.
- are formed by members of medically relevant groups of bacteria.
- are involved in anaerobic respiration.
- are a dormant form of a bacterium AND are formed by members of medically relevant groups of bacteria.

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

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### 4.1.33. Streptomyces

Author: Madison Christian

#### Streptomyces

Please choose only one answer:

- resemble fungi in their pattern of growth.
- produce a number of antibiotics.
- produce a characteristic blue green pigment.
- form endospores.
- resemble fungi in their pattern of growth AND produce a number of antibiotics.

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

Question: [Streptomyces Madison Christian Microbiology Chapter 10/11 - Unit](#)

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#### 4.1.34. Propionibacterium

Author: Madison Christian

Propionibacterium

Please choose only one answer:

- produces propionic acid.
- produces lactic acid.
- is responsible for the holes in Swiss cheese.
- requires aerobic environments.
- produces propionic acid AND is responsible for the holes in Swiss cheese.

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

Question: [Propionibacterium Madison Christian Microbiology Chapter 10/11 -](#)

Flashcards:

<http://www.quizover.com/flashcards/question-propionibacterium-madison-christian-microbiology-chapter-10-1?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-propionibacterium-madison-christian-microbiology-chapter-10-1?pdf=1505>

#### 4.1.35. Members of the family Enterobacteriaceae

Author: Madison Christian

#### Members of the family Enterobacteriaceae

Please choose only one answer:

- include E. coli, Enterobacter, Salmonella, and Shigella.
- include many medically relevant bacteria.
- primarily reside in the intestinal tract of humans and animals.
- are facultative anaerobes.
- All of the choices are correct.

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

Question: [Members of the family Enterobacteriaceae Madison Christian Microbiology](#)

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<http://www.quizover.com/flashcards/members-of-the-family-enterobacteriaceae-madison-christian-microbiolog?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/members-of-the-family-enterobacteriaceae-madison-christian-microbiolog?pdf=1505>



#### 4.1.36. Sulfuric acid is

Author: Madison Christian

Sulfuric acid is

Please choose only one answer:

- involved in bioleaching.
- produced by unicellular sulfur-oxidizers.
- produced by Lactobacillus.
- a result of reduction of metal sulfides.
- involved in bioleaching AND produced by unicellular sulfur-oxidizers.

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

Question: [Sulfuric acid is Madison Christian Microbiology Chapter 10/11 - Quest](#)

Flashcards:

<http://www.quizover.com/flashcards/question-sulfuric-acid-is-madison-christian-microbiology-chapter-10-11?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-sulfuric-acid-is-madison-christian-microbiology-chapter-10-11?pdf=1505>

#### 4.1.37. The lactobacilli, in their role as normal flora of the vagina, help...

Author: Madison Christian

The lactobacilli, in their role as normal flora of the vagina, help the vagina resist infection by contributing to

Please choose only one answer:

- the neutrality of the vaginal mucus.
- acidity of the vagina.
- food for the resident vaginal flora.
- fertility of the host.

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

Question: [The lactobacilli in their role as normal Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/the-lactobacilli-in-their-role-as-normal-madison-christian-microbiolog?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-lactobacilli-in-their-role-as-normal-madison-christian-microbiolog?pdf=1505>

#### 4.1.38. The methanogens

Author: Madison Christian

#### The methanogens

Please choose only one answer:

- are part of the Archaea.
- oxidize hydrogen gas to produce methane.
- appear only in aerobic environments.
- use oxygen as a terminal electron acceptor.
- are part of the Archaea AND oxidize hydrogen gas to produce methane.

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

Question: [The methanogens Madison Christian Microbiology Chapter 10/11 -](#)

Flashcards:

<http://www.quizover.com/flashcards/question-the-methanogens-madison-christian-microbiology-chapter-10-11?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-the-methanogens-madison-christian-microbiology-chapter-10-11?pdf=1505>

#### 4.1.39. Reticulate and elementary bodies are two forms of

Author: Madison Christian

Reticulate and elementary bodies are two forms of

Please choose only one answer:

- Mycoplasma.
- Caulobacter.
- Chlamydia.
- Myxobacteria.

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

Question: [Reticulate and elementary bodies are two Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/reticulate-and-elementary-bodies-are-two-madison-christian-microbiolog?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/reticulate-and-elementary-bodies-are-two-madison-christian-microbiolog?pdf=1505>

## 4.1.40. Azotobacter

Author: Madison Christian

### Azotobacter

Please choose only one answer:

- forms endospores.
- forms cysts.
- fixes carbon dioxide.
- are used as an indicator of fecal pollution.

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

Question: [Azotobacter Madison Christian Microbiology Chapter 10/11 - Unit 3](#)

Flashcards:

<http://www.quizover.com/flashcards/question-azotobacter-madison-christian-microbiology-chapter-10-11-unit?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/question-azotobacter-madison-christian-microbiology-chapter-10-11-unit?pdf=1505>

#### 4.1.41. Which causes uncontrolled growth of plant tissue, resulting in a tu...

Author: Madison Christian

Which causes uncontrolled growth of plant tissue, resulting in a tumor?

Please choose only one answer:

- Rhizobium
- Agrobacterium
- Bacillus anthracis
- Yersinia pestis

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

Question: [Which causes uncontrolled growth of plant Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-causes-uncontrolled-growth-of-plant-madison-christian-microbiolo?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-causes-uncontrolled-growth-of-plant-madison-christian-microbiolo?pdf=1505>

4.1.42. Which of the following organisms is the causative agent of Hansen's...

Author: Madison Christian

Which of the following organisms is the causative agent of Hansen's disease (leprosy)?

Please choose only one answer:

- Pseudomonas aeruginosa
- Mycobacterium avium
- Mycobacterium leprae
- Mycobacterium smegmatis

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

Question: [Which of the following organisms is the Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/which-of-the-following-organisms-is-the-madison-christian-microbiology?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/which-of-the-following-organisms-is-the-madison-christian-microbiology?pdf=1505>

#### 4.1.43. The genus of bacteria that is able to fix nitrogen and form heteroc...

Author: Madison Christian

The genus of bacteria that is able to fix nitrogen and form heterocysts is

Please choose only one answer:

- Pseudomonas.
- Escherichia.
- Vibrio.
- Anabaena.

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

Question: [The genus of bacteria that is able to fix Madison Christian Microbiology](#)

Flashcards:

<http://www.quizover.com/flashcards/the-genus-of-bacteria-that-is-able-to-fix-madison-christian-microbiolo?pdf=1505>

Interactive Question:

<http://www.quizover.com/question/the-genus-of-bacteria-that-is-able-to-fix-madison-christian-microbiolo?pdf=1505>