# Zoology Legends

# BT101

## Quiz No.3 Spring 2023


## Muhammad Zaman

0304-4756496


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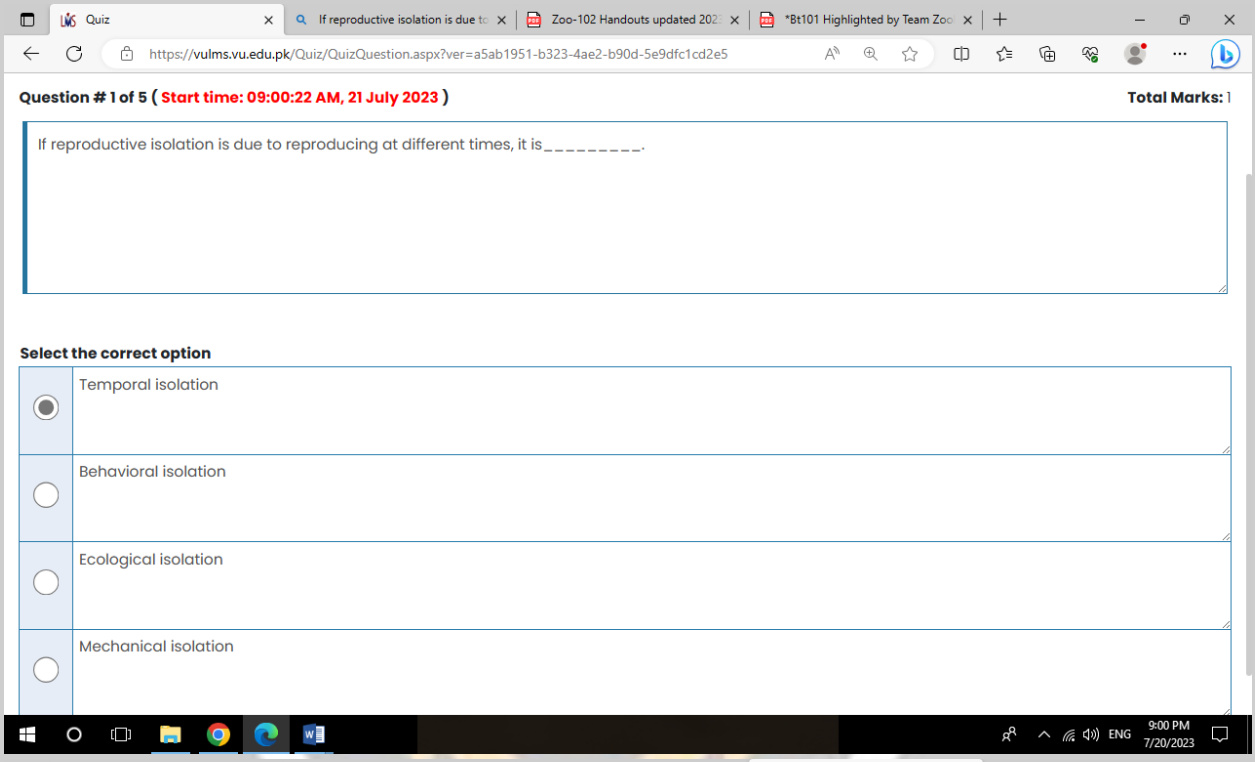
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# Zoology Legends



Quiz | If reproductive isolation is due to | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=a5ab1951-b323-4ae2-b90d-5e9dfc1cd2e5

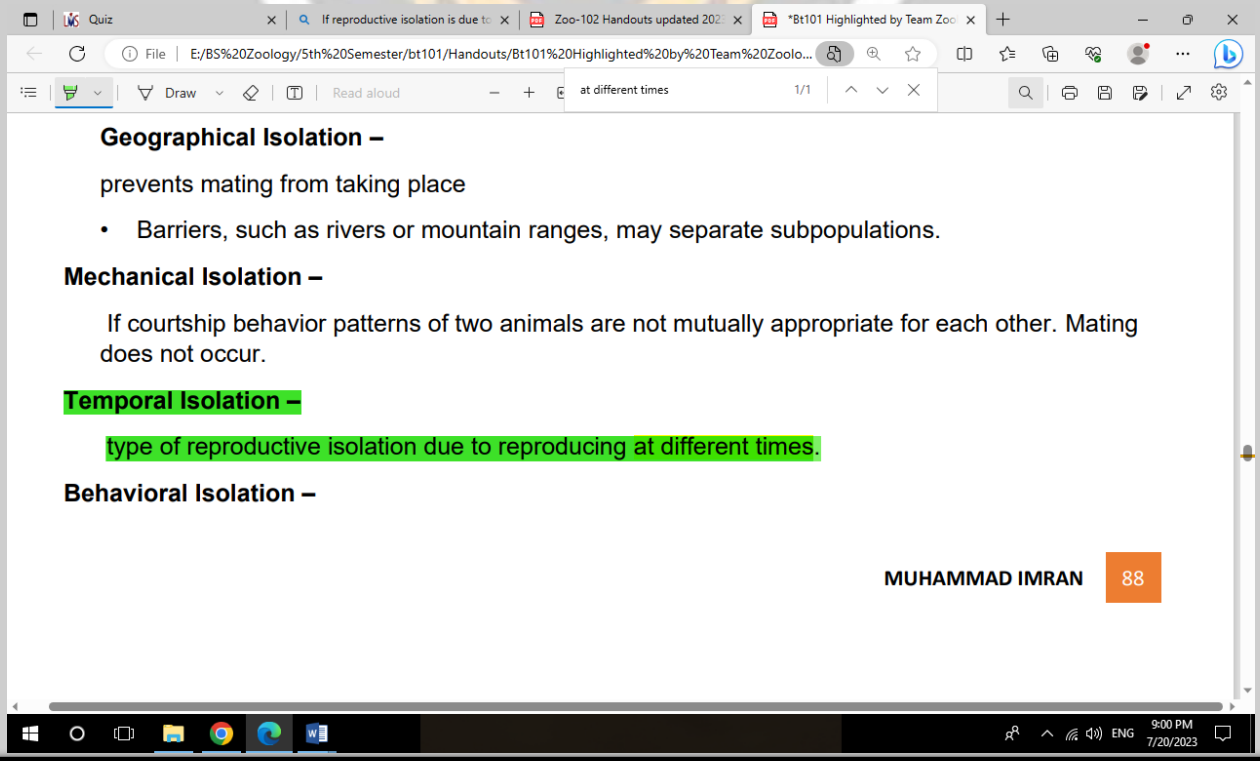
**Question # 1 of 5 ( Start time: 09:00:22 AM, 21 July 2023 )** **Total Marks:** 1

If reproductive isolation is due to reproducing at different times, it is_____.

**Select the correct option**

- (●) Temporal isolation
- ( ) Behavioral isolation
- ( ) Ecological isolation
- ( ) Mechanical isolation

ENG 9:00 PM 7/20/2023



Quiz | If reproductive isolation is due to | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

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Draw | Read aloud | at different times 1/1

**Geographical Isolation –**

prevents mating from taking place

- Barriers, such as rivers or mountain ranges, may separate subpopulations.

**Mechanical Isolation –**

If courtship behavior patterns of two animals are not mutually appropriate for each other. Mating does not occur.

**Temporal Isolation –**

type of reproductive isolation due to reproducing at different times.

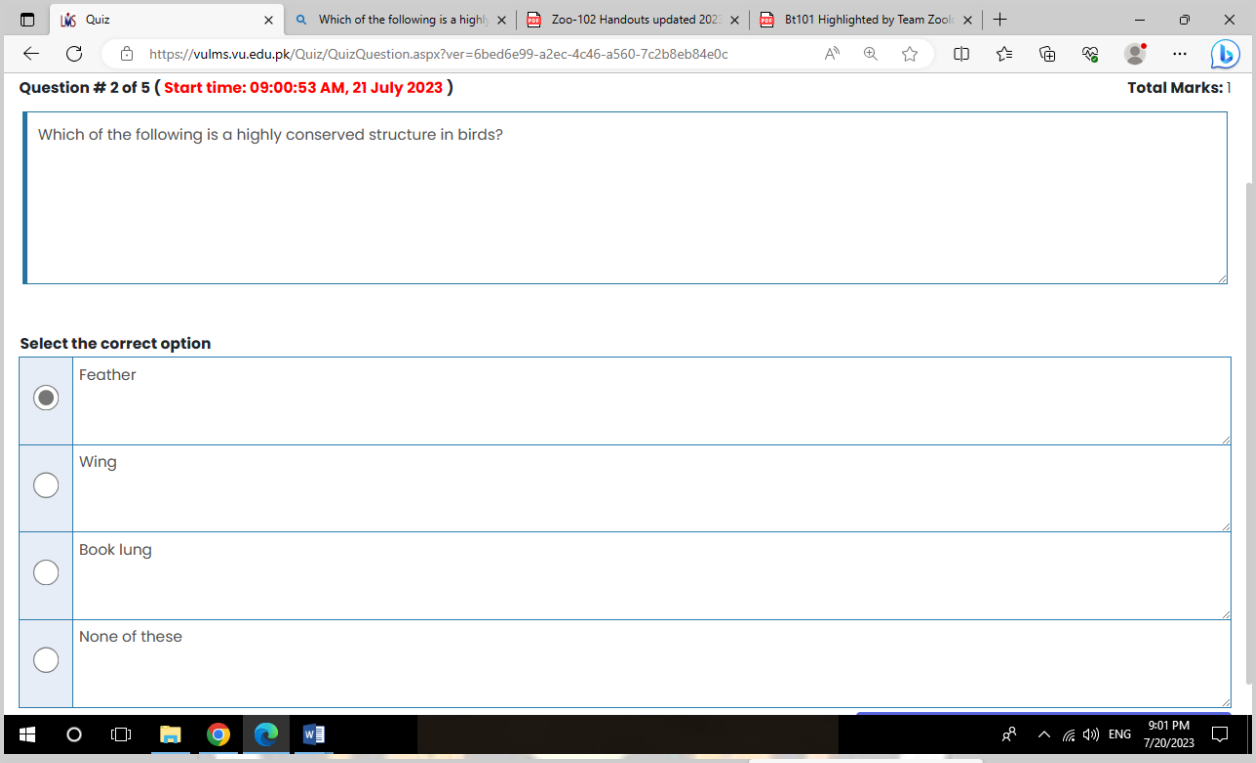
**Behavioral Isolation –**

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# Zoology Legends



Quiz | Which of the following is a highly conserved structure in birds? | Zoo-102 Handouts updated 2023 | Bt101 Highlighted by Team Zoology

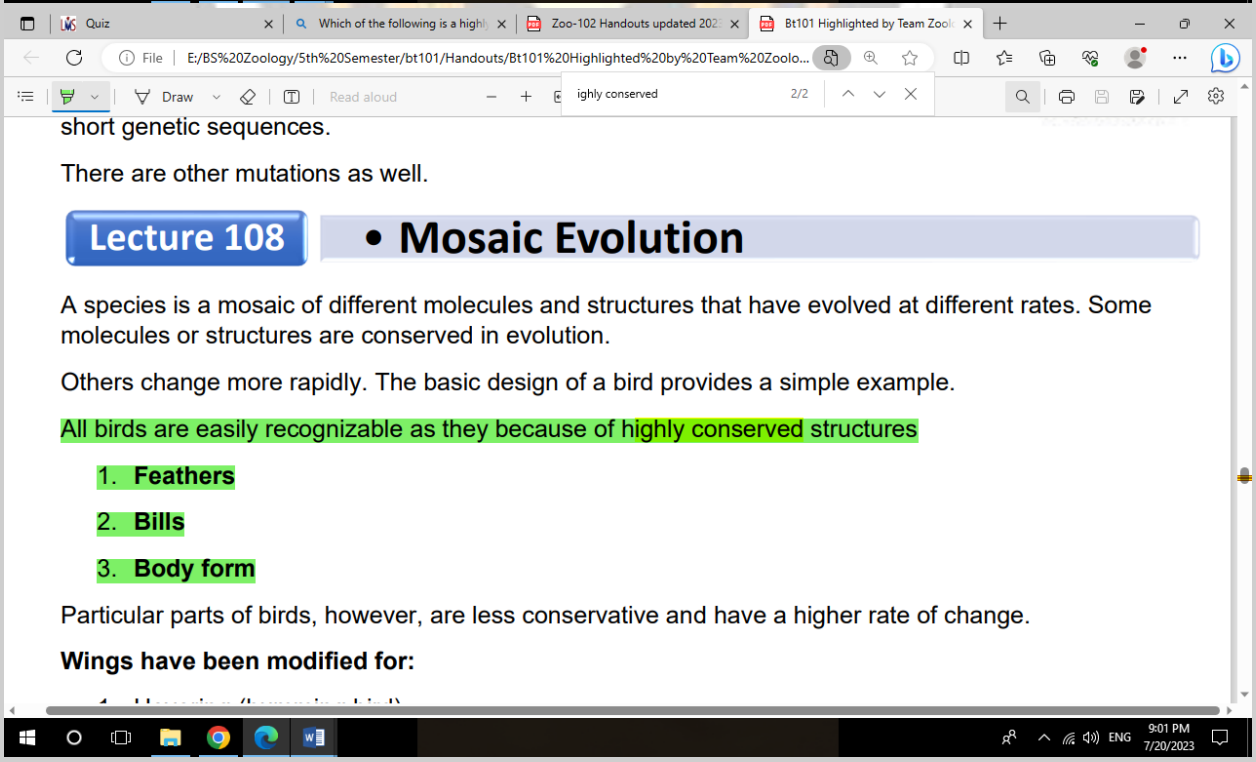
https://vulms.vu.edu.pk/Quiz/QuizQuestion.aspx?ver=6bed6e99-a2ec-4c46-a560-7c2b8eb84e0c

**Question # 2 of 5 ( Start time: 09:00:53 AM, 21 July 2023 )** **Total Marks:** 1

Which of the following is a highly conserved structure in birds?

**Select the correct option**

- Feather
- Wing
- Book lung
- None of these



Quiz | Which of the following is a highly conserved structure in birds? | Zoo-102 Handouts updated 2023 | Bt101 Highlighted by Team Zoology

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Draw | Read aloud | ighly conserved 2/2

short genetic sequences.

There are other mutations as well.

## Lecture 108 • Mosaic Evolution

A species is a mosaic of different molecules and structures that have evolved at different rates. Some molecules or structures are conserved in evolution.

Others change more rapidly. The basic design of a bird provides a simple example.

All birds are easily recognizable as they because of highly conserved structures

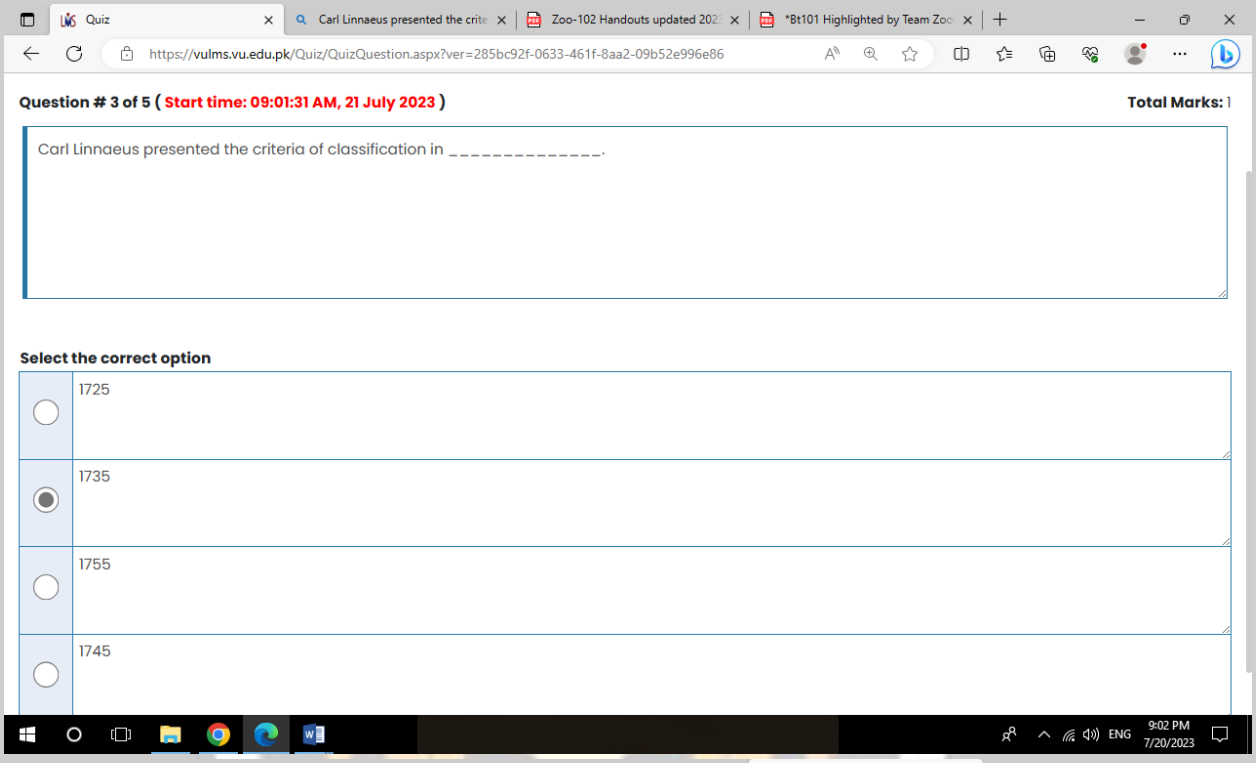
1. **Feathers**
2. **Bills**
3. **Body form**

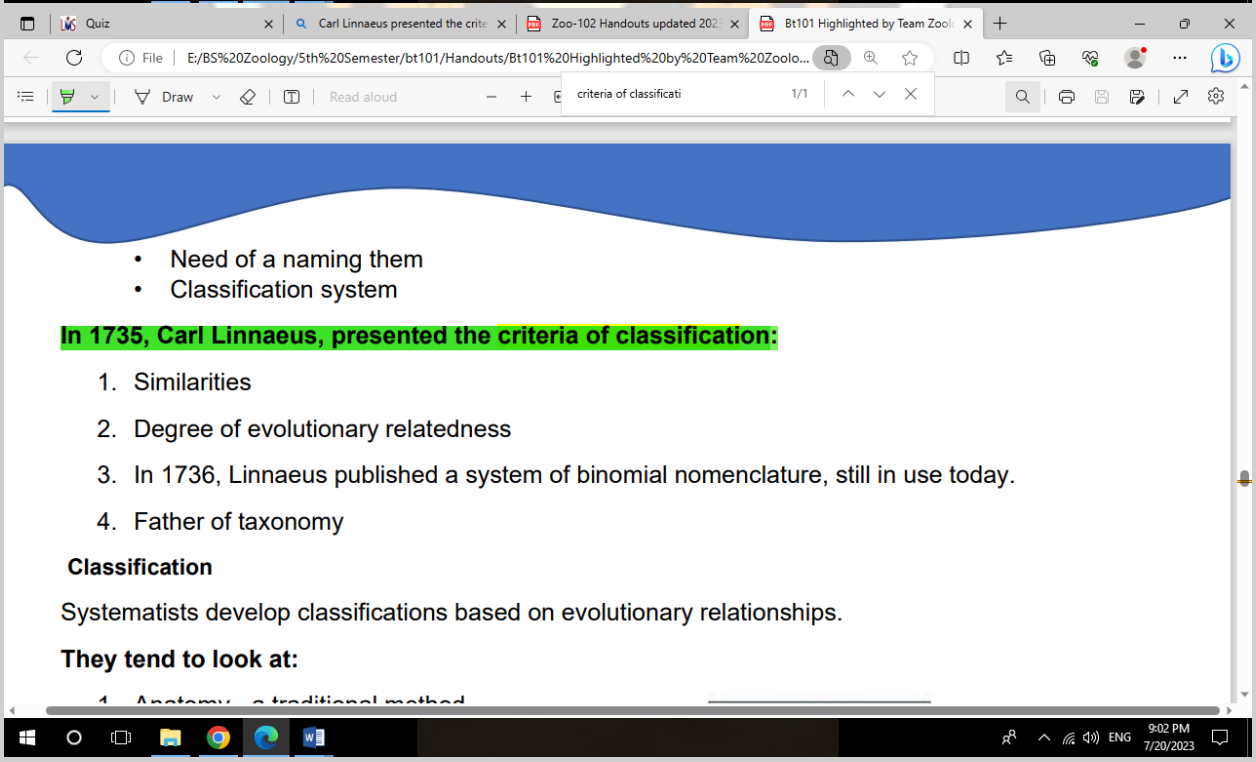
Particular parts of birds, however, are less conservative and have a higher rate of change.

**Wings have been modified for:**

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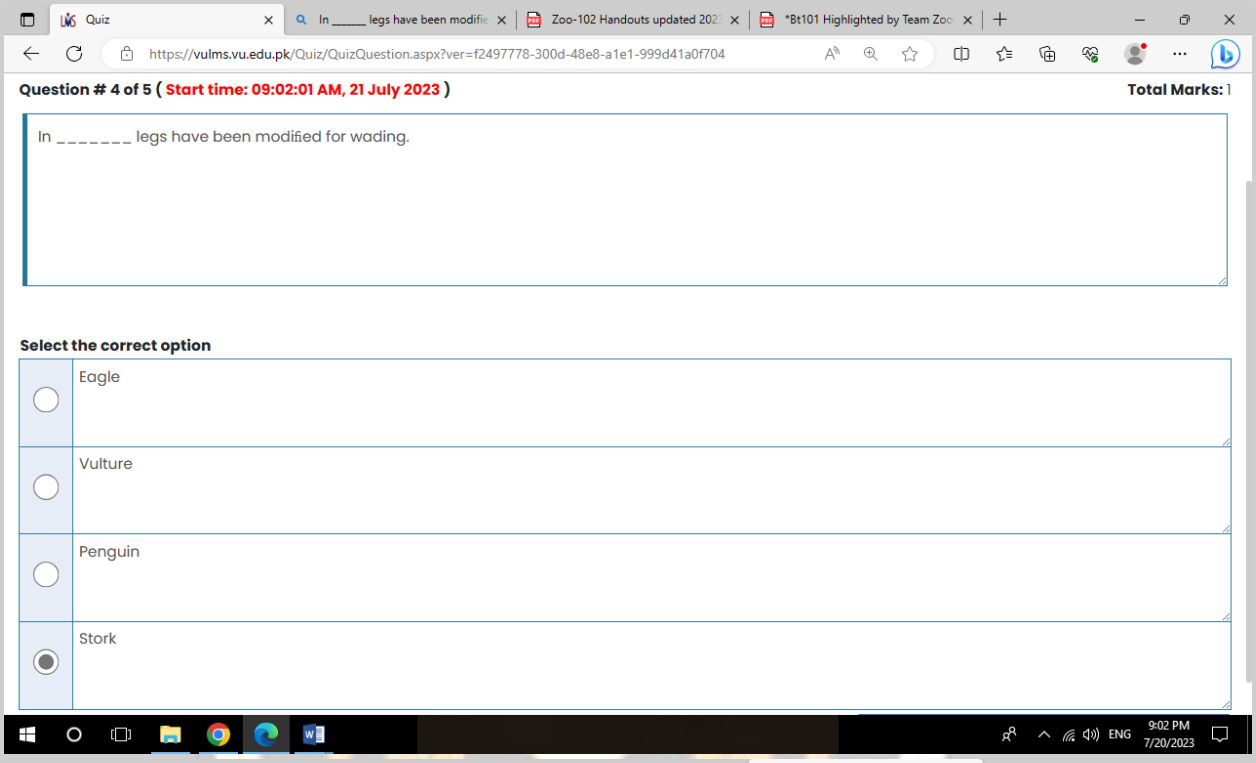
# Zoology Legends

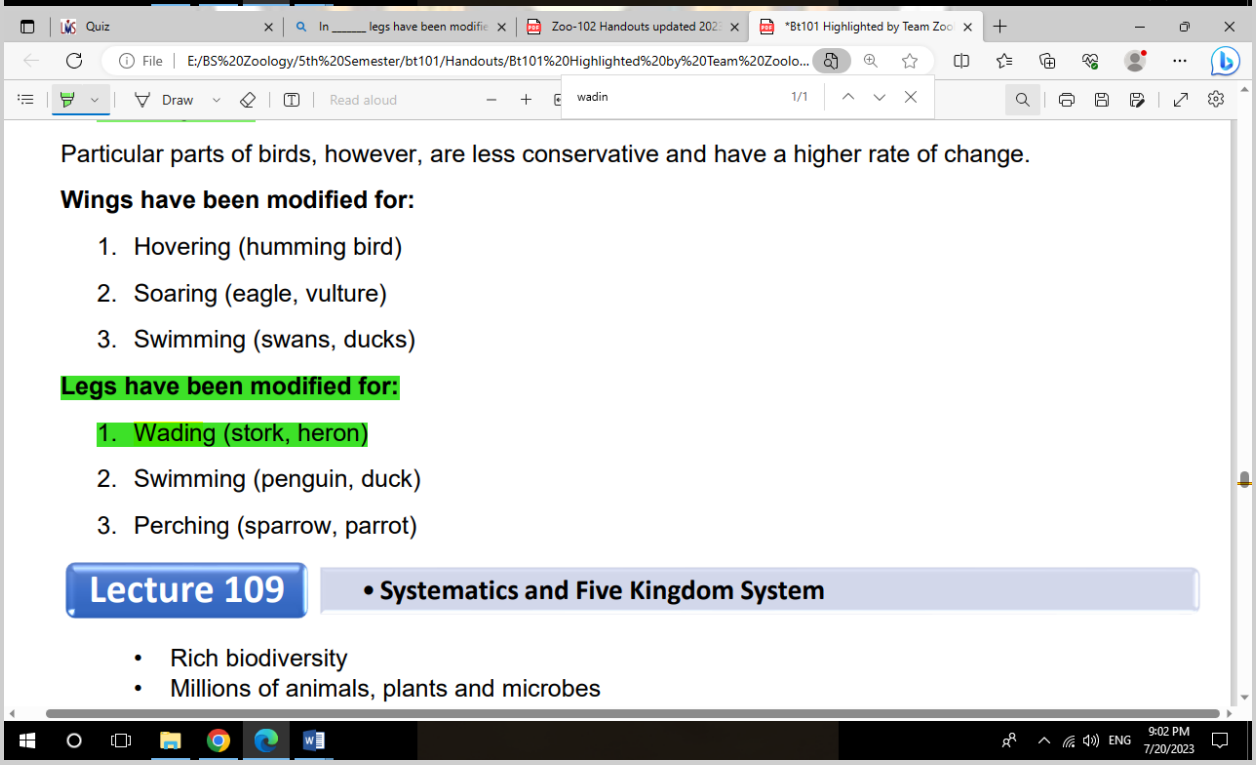



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# Zoology Legends

Quiz | Which of the following bacteria | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

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**Question # 5 of 5 ( Start time: 09:02:39 AM, 21 July 2023 )** **Total Marks:** 1

Which of the following bacteria have a single flagellum at both ends?

**Select the correct option**

- (●) Amphitrichous
- ( ) Peritrichous
- ( ) Lophotrichous
- ( ) Monotrichous

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Quiz Finished | Which of the following bacteria | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

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Draw | Read aloud | amphitrichous 1/1

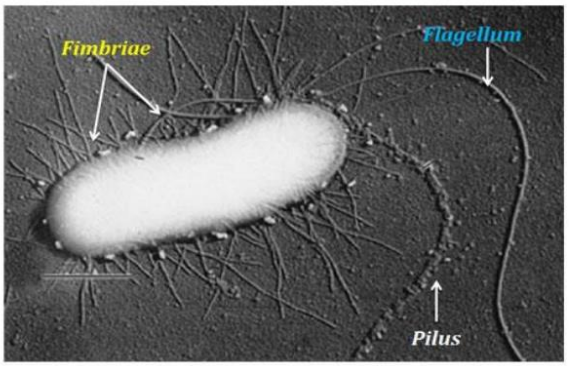
## Lecture 114 • Structure and Function of Prokaryotic Cell-2

**Flagella**

- **Motility - movement**

**Arrangement basis for classification**

1. **Monotrichous;** one flagella
2. **Lophotrichous;** tuft at one end
3. **Amphitrichous**; both ends
4. **Peritrichous;** all around bacteria.

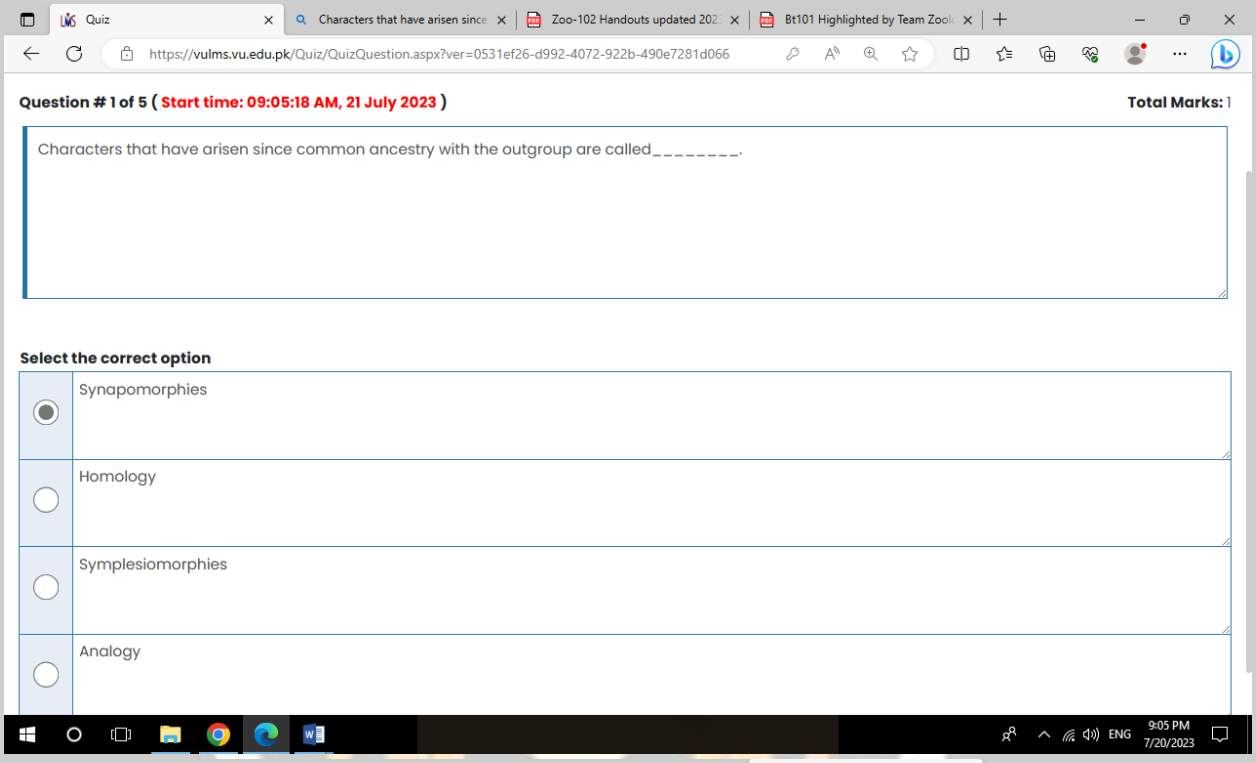


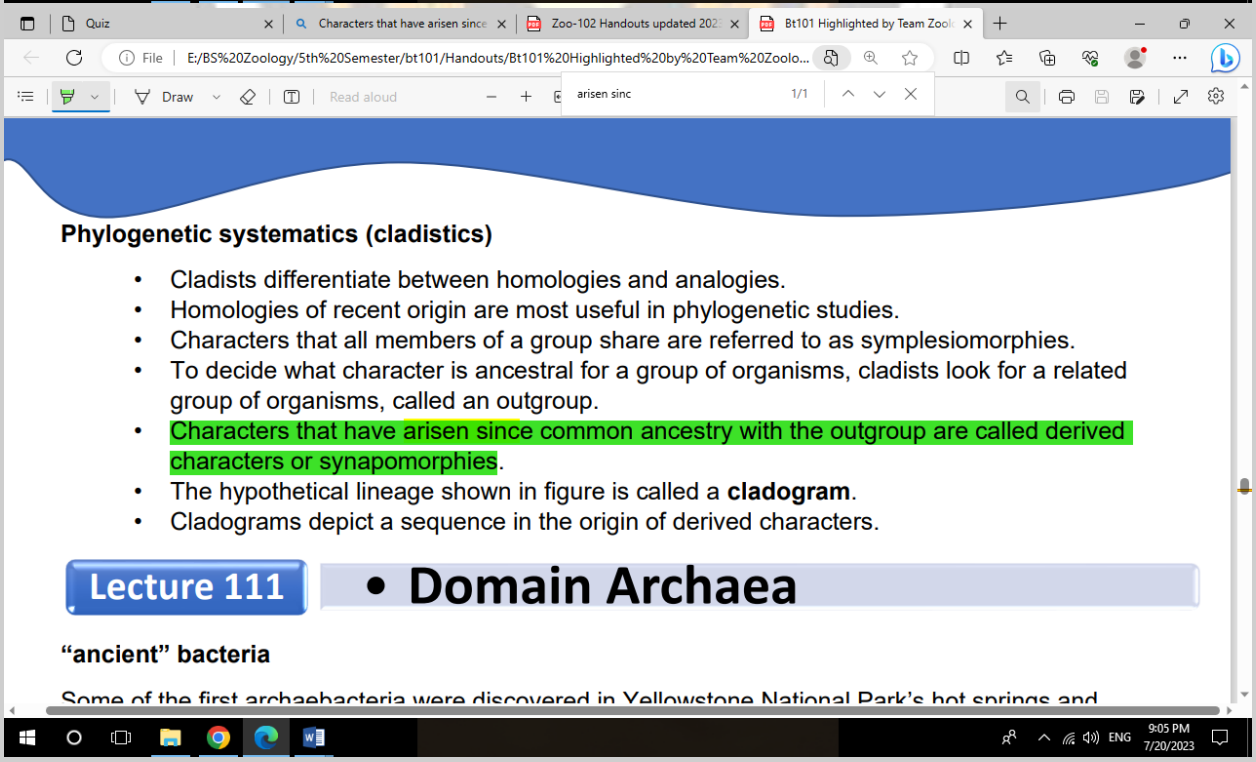

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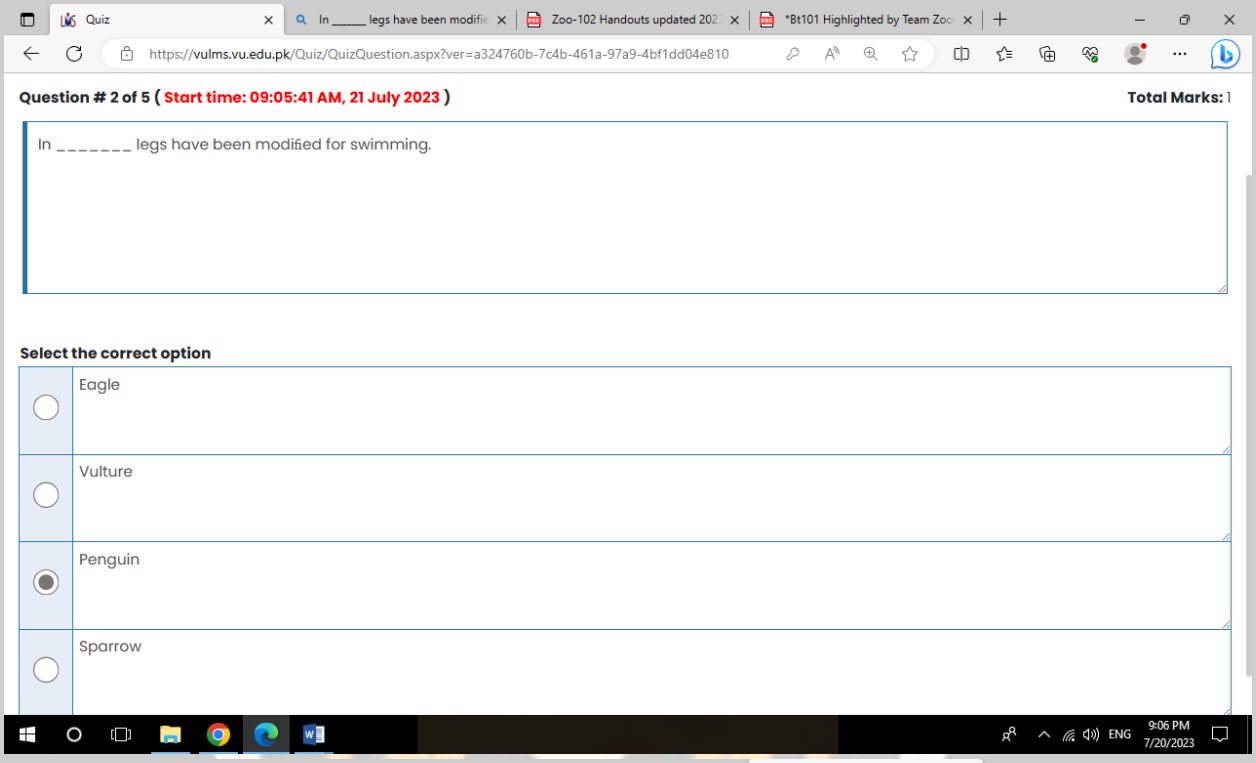
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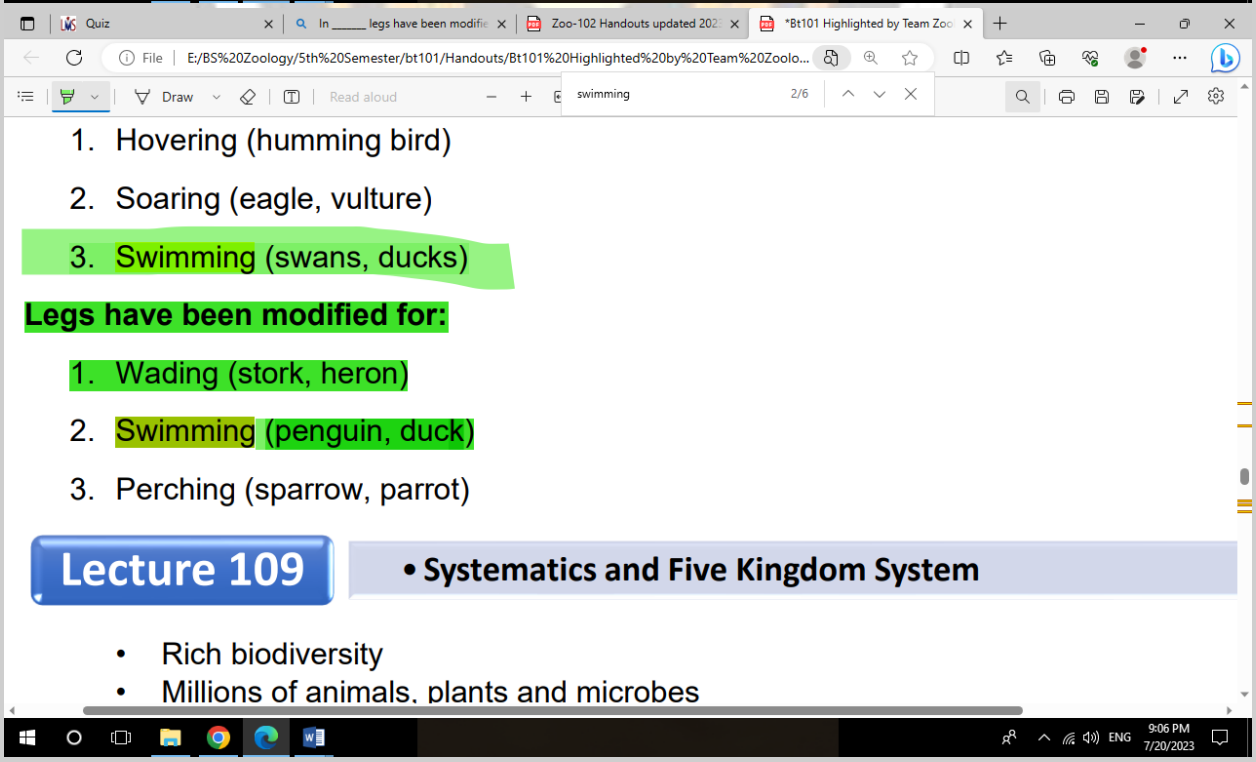



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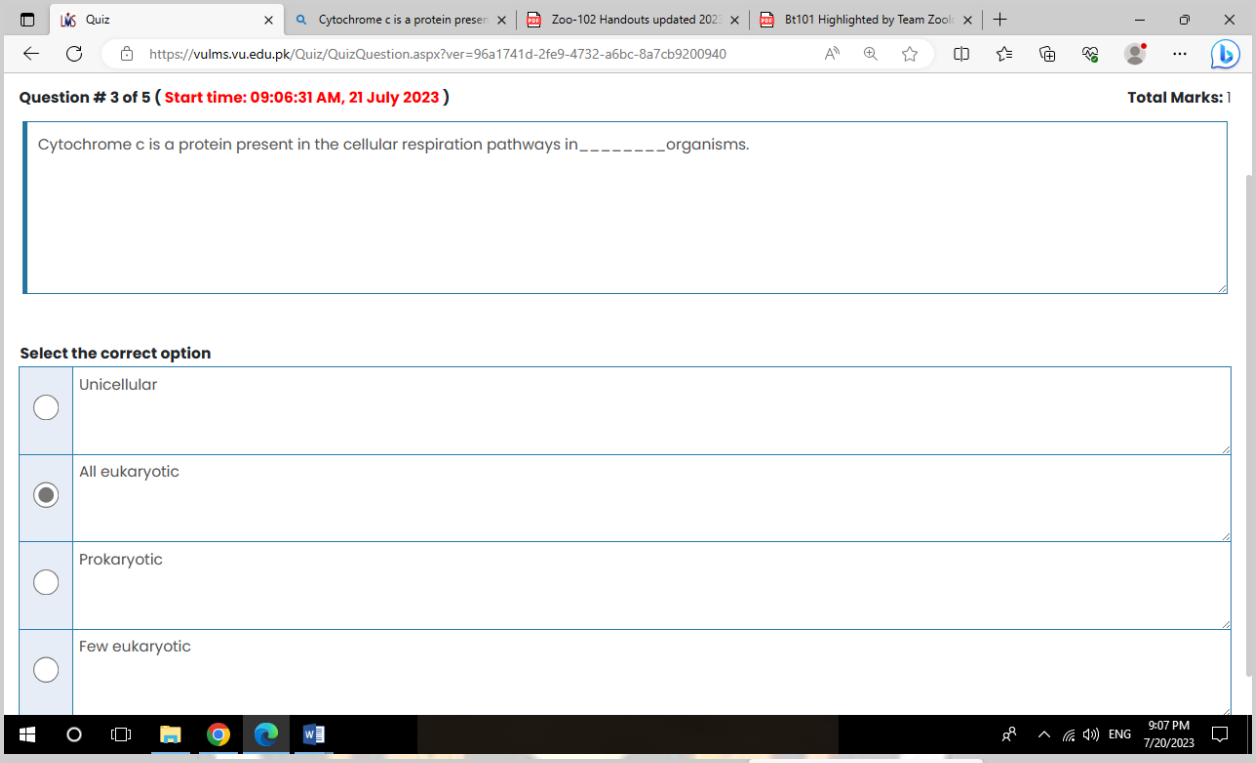
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Zoology Legends



Quiz | Cytochrome c is a protein preser | Zoo-102 Handouts updated 202 | Bt101 Highlighted by Team Zool

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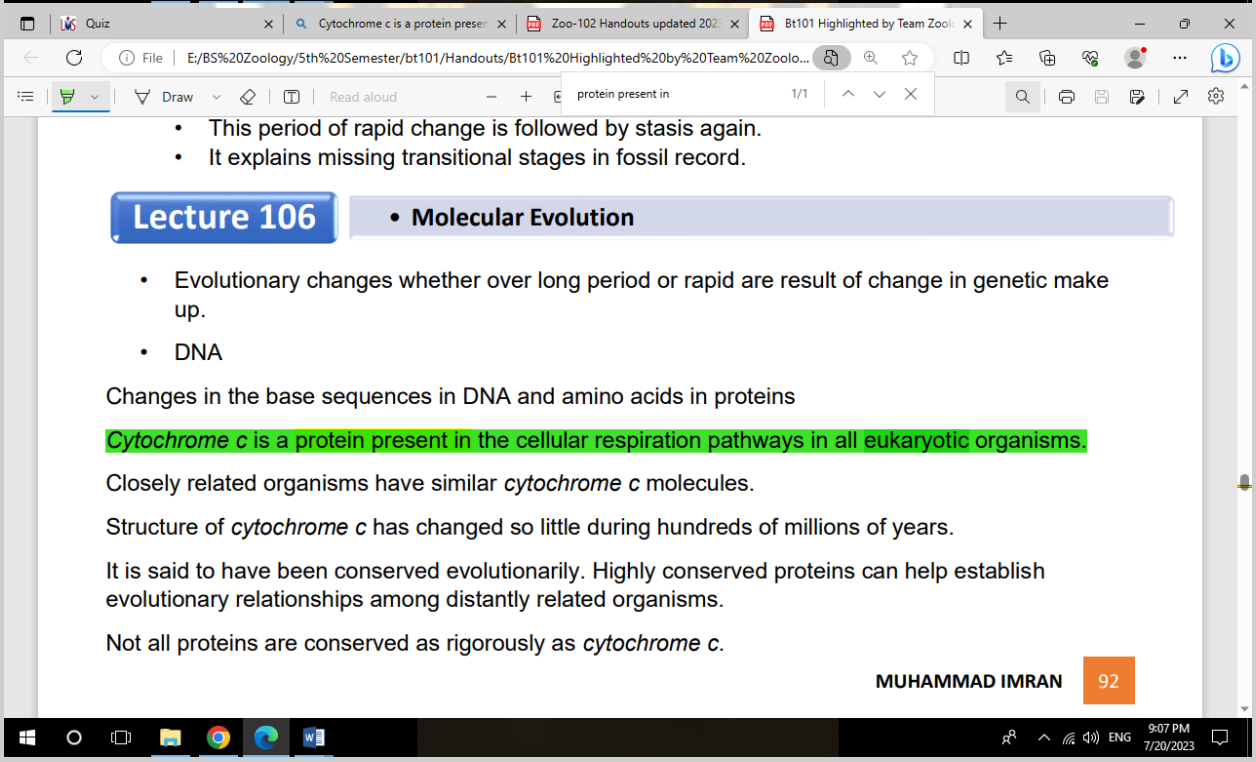
**Question # 3 of 5 ( Start time: 09:06:31 AM, 21 July 2023 )** **Total Marks:** 1

Cytochrome c is a protein present in the cellular respiration pathways in_____organisms.

**Select the correct option**

- ○ Unicellular
- ◉ All eukaryotic
- ○ Prokaryotic
- ○ Few eukaryotic





Quiz | Cytochrome c is a protein preser | Zoo-102 Handouts updated 202 | Bt101 Highlighted by Team Zool

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Draw | Read aloud | protein present in | 1/1

- This period of rapid change is followed by stasis again.
- It explains missing transitional stages in fossil record.

**Lecture 106** • **Molecular Evolution**

- Evolutionary changes whether over long period or rapid are result of change in genetic make up.
- DNA

Changes in the base sequences in DNA and amino acids in proteins

*Cytochrome c* is a protein present in the cellular respiration pathways in all eukaryotic organisms.

Closely related organisms have similar *cytochrome c* molecules.

Structure of *cytochrome c* has changed so little during hundreds of millions of years.

It is said to have been conserved evolutionarily. Highly conserved proteins can help establish evolutionary relationships among distantly related organisms.

Not all proteins are conserved as rigorously as *cytochrome c*.





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Quiz | New genetic material is generate | Zoo-102 Handouts updated 202 | Bt101 Highlighted by Team Zool

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**Question # 4 of 5 ( Start time: 09:07:10 AM, 21 July 2023 )** **Total Marks:** 1

New genetic material is generated during _____evolution.

**Select the correct option**

- ○ None of these
- ◉ Molecular evolution
- ○ Behavioral
- ○ Environmental

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Quiz | New genetic material is generate | Zoo-102 Handouts updated 202 | Bt101 Highlighted by Team Zool

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Draw | Read aloud | New genetic material 1/1

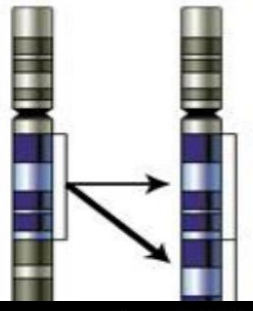
Less conserved proteins are useful for looking at relationships among more closely related animals.

**Lecture 107** • **Gene Duplication**

Major mechanism through which new genetic material is generated during molecular evolution. Duplication of a region of DNA that contains a gene.

Products of several types of errors in DNA replication and repair machinery

Duplication of gene or whole genome




**Examples:**

**1. Aneuploidy**

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Quiz | Which of the following proteins | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

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**Question # 5 of 5 ( Start time: 09:07:41 AM, 21 July 2023 )** **Total Marks:** 1

Which of the following proteins are useful for looking at relationships among more closely related animals?

**Select the correct option**

- ○ None of these
- ○ Highly conserved
- ○ Moderately conserved
- ◉ Less conserved

Quiz Finished | Which of the following proteins | Zoo-102 Handouts updated 202 | *Bt101 Highlighted by Team Zoo

File | E:/BS%20Zoology/5th%20Semester/bt101/Handouts/Bt101%20Highlighted%20by%20Team%20Zoolo...

Draw | Read aloud | closely related animal 1/1

Less conserved proteins are useful for looking at relationships among more closely related animals.

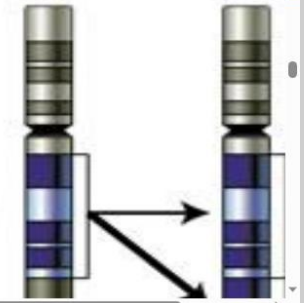
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Major mechanism through which new genetic material is generated during molecular evolution. Duplication of a region of DNA that contains a gene.

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Duplication of gene or whole genome

**Examples:**




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## Muhammad Zaman

## 03044756496

**Remember me in you Precious Prayer**

**Jazak Allah**

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