

RS- Biochemistry

Archive

Lecture2

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1. carboxyl group of DPG are combined with:

- A) lysin 82
- B) histidine 142
- C) lysin 2
- D) histidine 82

Ans:A

Regarding the structure of heme in myoglobin and hemoglobin, all of the following statements are correct except:

- A) Heme has a similar structure in myoglobin and hemoglobin.
- B) Heme is a complex of porphyrin and ferric iron (Fe^{2+}).
- C) Porphyrins are a group of organic compounds that have four pyrrole subunits interconnected via alpha-methylene bridges ($=CH-$).
- D) A pyrrole ring is a group of four carbon atoms and a nitrogen atom bound together in a ring.
- E) Heme binds oxygen through its central iron atom.

Ans:B

The carboxyl groups of 2,3-diphosphoglycerate (DPG) interact with which amino acid residues in hemoglobin?

- A) Lysine 82
- B) Histidine 142
- C) Lysine 2
- D) Histidine 82
- E) Arginine 141

Ans:A

Which of the following statements is correct?

- A) The distal histidine of myoglobin and hemoglobin is sterically repelled by the heme porphyrin ring.
- B) Cytochrome b5 reduces the ferric iron of methemoglobin.
- C) Oxyhemoglobin and deoxyhemoglobin have the same affinity for protons (H^+).
- D) Buffer effectiveness does not depend on their concentration.
- E) Maintenance of blood pH relies solely on the bicarbonate buffering system.

Ans:B

Inhibition of cytochrome
- **Histotoxic Hypoxia**



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