

Which of the following is one of the mechanisms by which infections cause cell

- Increasing oxygen concentration
- **Activating the host's immune system**
- Generating UV light
- Accelerating cellular senescence
- Releasing ionizing radiation

Pyroptosis is...?

- ...cellular homicide.
- ...cellular soup.
- ...programmed cell death.
- **...suicide by inflammation.**
- ...fail-safe suicide.

Which of the following is utilized by the cells as a mechanism of self-preservation?

- Necroptosis
- Autolysis
- Necrosis
- Apoptosis
- **Autophagy**

The changes made by a cell in response to injury or adverse changes in their environment are referred to as...?

- ...apoptosis.
- ...remodeling.
- **...adaptation.**
- ...homeostasis.
- ...necrosis.

Which of the following causes cell damage by inhibiting the electron transport chain?

- Carbon tetrachloride
- Mercury chloride
- Acetaminophen
- **Cyanide**

How does acetaminophen cause cell injury?

- **Formation of toxic metabolites**
 - Modification of the cell membrane sulfhydryl group
 - Inhibition of RNA polymerase II
 - Reduction of the oxygen-carrying capacity of the blood
 - Formation of oxygen-containing free radicals
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Which of the following will result from reduced activity of Na⁺/K⁺-ATPase?

- Shrinkage of the intracellular organelles
 - Increased intracellular K⁺ concentration
 - Increased extracellular Ca⁺⁺ concentration
 - **Increased intracellular Na⁺ concentration**
 - Movement of water to the extracellular compartment
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Which of the following will result from the deactivation of oxidative phosphorylation?

- **Accumulation of lactic acid**
 - Decreased intracellular H⁺ concentration
 - Increased protein synthesis
 - Decreased inorganic phosphate concentration
 - Increased glycogen synthesis
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Which of the following is responsible for activating the apoptosis pathway in a mitochondrial injury?

- Cytochrome P450
 - Chloride ions
 - Proton ions
 - **Cytochrome C**
 - Pyruvate
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The changes made by a cell in response to injury is referred to as...?

- ...remodeling.
 - ...transformation.
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