

## Ultimate Genetic Study Guide Test 2

**Multiple choice (2.5 points each): Choose the best possible answer for each question.**

1. Which statement correctly describes the bacteriophage lytic cycle but not the lysogenic cycle?

- A. Phage DNA is transcribed and translated to make new phage particles
- B. The phage injects its DNA into the host bacterial cell
- C. Both A and B
- D. Neither A nor B

The table below characterizes *Neurospora* mutants with defects in the biosynthetic pathway for methionine. Use this table to answer questions 2 and 3

| Mutant strain      | Growth Medium  |                    |                         |                        |                      | Compound accumulating in mutant |
|--------------------|----------------|--------------------|-------------------------|------------------------|----------------------|---------------------------------|
|                    | Minimal medium | Minimal + cysteine | Minimal + cystathionine | Minimal + homocysteine | Minimal + methionine |                                 |
| Control prototroph | +              | +                  | +                       | +                      | +                    | None                            |
| Met 1              | -              | -                  | -                       | -                      | +                    | Homocysteine                    |
| Met 2              | -              | -                  | -                       | +                      | +                    | Cystathionine                   |
| Met 3              | -              | -                  | +                       | +                      | +                    | Cysteine                        |
| Met 4              | -              | +                  | +                       | +                      | +                    | Homoserine                      |



2. The Met2 mutant has a defect in the enzyme responsible for converting \_\_\_\_\_ to \_\_\_\_\_.

- A. Homocysteine; methionine
- B. Cysteine; cystathionine
- C. Homoserine; cysteine
- D. Cystathionine; homocysteine

3. What compound will accumulate in a Met3; Met4 double mutant?

# Genetic Study Guide Answers

**Sundar Nathan**



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