

Meiothermus Ruber Gene Annotation Project!

Read through all ten questions, and be prepared to learn a lot of interesting facts about *Meiothermus Ruber*!

1. At what optimal temperature does *M. ruber* grow? ____°C
2. *M. ruber* is classified as a EUBACTERIA or ARCHAEA or EUCARYOTE? (choose one)
3. The color of *M. ruber* is _____ and its texture is _____.
4. Is *M. ruber* harmful to humans? YES or NO
5. In what places/environments besides hot springs can *Meiothermus ruber* grow?

6. What does J.G.I stand for? _____
7. TRUE or FALSE The genomes of all bacteria are known.
8. Through the process of _____, researchers can study these (see list below) aspects of genome function and gene structure. Fill in the blank with the appropriate 2-word phrase.
 - Gene products
 - Protein structures
 - Protein properties
 - Phylogenetic origins
9. Name two other things gene annotation can tell us about the genome or gene.
 - _____
 - _____
10. What parts of the Inquiry Wheel does this annotation project touch on?
 - _____
 - _____
 - _____
 - _____