

YOUR WORLD

Biotechnology & You

Student Activity Supplement

Volume 12: Issue 2



The Secret of How Life Works

The Case of the Crown Jewels

<[http://www.bumc.bu.edu/departments/
PageMain.asp?page=7355&DepartmentID=285](http://www.bumc.bu.edu/departments/PageMain.asp?page=7355&DepartmentID=285)>

Anagrams

ACROSS:

- 2 A common pattern of DNA variations in a population.
- 7 An enzyme that helps translate DNA into a protein.
- 8 Matching a suspect's DNA fingerprint to one in a database.
- 10 A building block of a protein.
- 11 Using organisms to solve problems or create useful products.
- 13 The study of the entire set of chromosomes in an organism.
- 17 A genetic profile of an individual.
- 19 The scientific study of inherited variations.

Match the word on the left to its anagram on the right

- | | |
|------------------|-------------------|
| Cold Hit | merely soap |
| Mutation | teaching compares |
| Genomics | pointer |
| Pharmacogenetics | more poet |
| Polymerase | cloth ID |
| Protein | gem coins |
| Proteome | omit a nut |

- 20 A monk who used mathematics to deduce some laws of heredity.
- 21 A section of DNA.

DOWN:

- 1 Single nucleotide polymorphism (a single-base mutation).
- 3 The study of how genetic variations affect drug responses.

- 4 The complete set of proteins produced by an organism.
- 5 A disease of the airways that causes coughing and wheezing.
- 6 A chemical change in DNA.
- 9 The product of a gene.
- 12 The protein-making factory of a cell.
- 14 The order of DNA bases.
- 15 Polymerase chain reaction, which multiplies, or amplifies, DNA.
- 16 Deoxyribonucleic acid.
- 18 A mathematician who developed a model to explain inheritance patterns.
- 19 The recipe for a protein.

Crossword Puzzle

