|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Anti A** | **Anti B** | **Anti-Rh** | **Blood Type?** |
| **Blood Sample 1** | **+** | **+** | **-** | **AB-** |
| **Blood Sample 2** | **-** | **-** | **+** | **O+** |
| **Blood Sample 3** | **-** | **+** | **-** | **B-**  |

**Mrs. Bashaw- O+**

**Mrs. Deyo- AB-**

**Mrs. Morris- O+**

**Mr. Rettig- O+**

**Mr. Rossner- AB-**

**DNA Sample 1**

GAC TTT ACT GGG ACG GCA CGG GAA TCG AGG ATC GCG TAC CAG TTA GTC

CTG AAA TGA CCC TGC CGA GCC CTT AGC TCC TAG CGC ATG GTC AAT CAG

**MRNA MESSENGER:**

GAC UUU ACU GGG ACG GCU CGG GAA UCG AGG AUG GCG UAC CAG UUA GUC

**Codons Combinations:**

Asp Leu Thr Gly Thr Ala Arg Glu Ser Arg Met Ala Tyr Gln Leu Val

**Amino Acids:**

D L R I R A B/C/W G Q B/C/W K A T H L U

**WRIGHT**

**DNA Sample 2**

TTT ACG CAT TGG AAA GAT ACG GAA ACT TTC ACA GGG ATG AAG CCG TGG

AAA TGC GTA ACC TTT CTA TGC CTT TGA AAG TGT CCC TAC TTC GGC ACC

**MRNA MESSENGER:**

UUU ACG CAU UGG AAA GAU ACG GAA ACU UUC ACA GGG AUG AAG CCG UGG

**Codons Combinations:**

Phe Thr His Trp Lys Asp Thr Glu Thr Phe Thr Gly Met Lys Pro Trp

**Amino Acids:**

O R J S M D/E R G/H R O R I N M P S

 **MR. ROSSNER**

**DNA Sample 3**

TGC CAA TAT AAA CCG GAC ACC GCC GAT GAA GGG TAC TAA CTT GGC AGC

ACG GTT ATA TTT GGC CTG TGG CGG CTA CTT CCC ATG ATT GAA CCG TCG

**MRNA MESSENGER**

UGC CAA UAU AAA CCG GAC ACC GCC GAU GAA GGG UAC UAA CUU GGC AGC

**Codons Combinations:**

Cys Gln Tyr Lys Pro Asp Thr Ala Asp Glu Gly Thr Stop Leu Gly Ser

**Amino Acids:**

F I T M P D/E R A E/Y G/H I R L I Q

**MR. RETTIG**

**DNA Sample 4**

TTA GCC CAT TAT GGG CGA ACG CGG GAG TGG TGG TTT CAA CCC TCT GCG

AAT CGG GCT AAT ACC CGC TTG CGC CCT CAC CAC CAA AGT TGG GAG ACG

**MRNA MESSENGER:**

UUA GCG CGA UUA UGG GCG AAC GCG GGA GUG GUG GUU UCA ACC CUC UGC

**Codons Combinations:**

Leu Ala Arg Leu Trp Ala Asn Ala Gly Val Val Val Ser Thr Leu Cys

**Amino Acids:**

L V B/C/W L A A Z U U U Q R L F

**MRS. BASHAW**

**DNA Sample 5**

TTC AGC CGG ATT AAC GGG CTT AGG CCA AAC GTC GGG GAC CTA GCT CAT

AAG TCG GCC TAA TTG CCC GAA TCC GGT TTG CAG CCC CTG GAT CGA GTA

**MRNA MESSENGER:**

UUC AGC CGG AUU AAC GGG CUU AGG CCA AAC GUC GGG GAC CUA GCU CAU

**Codons Combinations:**

Phe Ser Arg Ile Asn Gly Leu Arg Pro Asn Val Gly Asp Leu Ala His

**Amino Acids:**

O Q B/C/W K D/Y I L B/C/W P D/Y U I E L A J

**DEYO**

**DNA Sample 6**

ACT ATA GGC ACA AGC CGC TGG TCA CTA GGA TAA CAA TTC GAG TTT CAG

TGA TAT CCGTGTTCGGCGACCAGTGATCCTATTGTTAAGCTCAAAGTC

**MRNA MESSENGER:**

ACU AUA GGC ACA AGC CGC AGG ACA CAA GGA AAA CAA AAC GAG UUU CAG

**Codons Combinations:**

Thr Ile Gly Thr Ser Arg Arg Thr Gln Gly Lys Gln Asn Glu Phe Gln

**Amino Acids:**

R K Z R Q B/C/W R I Z M I D/Y G/H O I

**MORRIS**

**DNA Sample 7**

AAT CAG GTT TTT CTC ACC TTC CAG GAC GAC TAT GAA AAT GGA

TTA GTC CAA AAA GAG TGG AAG GTC CTG CTG ATT CTT TTA CCT

**MRNA MESSENGER:**

AAU CAG GUU UUU CUC ACC UUC CAG GAC GAC UAA GAA AAU GGA

**Codons Combinations:**

Asn Gln Val Phe Leu Thr Phe Gln Asp Asp Leu Glu Asn Gly

**Amino Acids:**

D/Y I U O L R O I Y Y L G/H D/Y I

**JUNK DNA**

**Microscope Examples:**

1) Pollen:**Rettig**

2) Human (Brown): **Rossner and Rettig**

3) Cotton

4) Wool Yarn

5) Nylon Rope

6) Cat Hair:**Deyo**

7) Rayon

8) Peacock Feather:**Rettig**

**Suspects!:**

-Wright

-Rossner

-Deyo

**DNA FINGERPRINT #1 (Sample 1)-NOT FOUND AT CRIME SCENE**

**WRIGHT**

**DNA FINGERPRINT #2 (Sample 2)-FOUND AT CRIME SCENE**

**ROSSNER**

**DNA FINGERPRINT #3 (Sample 3) - FOUND AT CRIME SCENE**

**RETTIG**

**DNA FINGERPRINT #4 (Sample 4)-NOT FOUND AT CRIME SCENE**

**BASHAW**

**DNA FINGERPRINT #6 (Sample 6)-FOUT AT CRIME SCENE**

**MORRIS**

**DNA FINGERPRINT #7 (Sample 7)-JUNK DNA**

-Rossner

-Rettig

-Deyo

**IT’S RETTIG!!**

**Things Needed:**

**-Dark Room (Jennie introduces) than LIGHT shines on Rettig’s face.**

**-Medium Size Table**

**- 3 chairs**

**-lab coat**

**-Notepad**

**-Folder with DNA written on it**

**-Pictures of the Puma Suit**

**Script-**

**On Friday, March 2nd at 3:51 PM, our puma suit was stolen. According to our DNA evidence on the crime of the missing puma, we have completed our analysis. His name was written all over this. His face was covered in lies. We have the blood type, the fingerprints, and the DNA. Please welcome our thief, Mr. Rettig, or as he likes to go by, D-Dawg Rettig.**

**Jennie: We NEED answers to these important questions.**

**Suspect Questions!:**

**-Why did you do this?\*\*\*\*\*\*\***

**-What were you planning to do with this puma suit?**

**-How will this affect your 10K run?**

**-Do you think you’ll be fired?**

**-What were thinking while stealing this suit?\*\*\*\*\*\***

**-Did you think of the children?\*\*\*\*\*\*\*\***

**-Did you think you were gonna get away with this?**