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17. Venter's company is called Celera Genomics. Celera is from the _____ for _____.

18. Venter's experience as a stage two is _____ affected him greatly.

19. Celera genomics announced that they would sequence the genome in _____ years.

20. Francis Collins is the head of the public _____ project. His goal was to share _____ years of the original 21.

21. Basically, we have a user between a _____ foundation paid for by taxes, headed by Francis Collins, and a _____ funded company, run by Venter.

22. The information from the public lab is available immediately on the _____.

23. Who's DNA did the public group sequence?

24. Who is Celera Mapping?

25. 2 different humans are more closely related than 2 different _____.
This is because we are each a _____ species descended from about _____ people in Africa.

26. Explain why we have so many genes in common with every other living thing.

27. In November, 1999, _____ of the total genome was sequenced. That's _____ base pairs.

28. Why is there such a drive to go quickly from the public group?

29. In order to receive a patent, something must be both _____ and _____.

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ANSWER

"When you have a lot of money, you have no better idea than your own," says one man who has made his fortune. "But the problem is that you don't know what you're doing."



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Objective
To extract human DNA from cheek cells.

MATERIALS for each team

- o copy of "See Your DNA" student handouts (PDF or HTML)
- o 2 teaspoons (10 ml) 0.9 percent salt water (2 teaspoons table salt in one quart/liter of water)
- o disposable paper or plastic cup
- o large test tube (or any clear tube that can be sealed with a rubber or cork stopper)
- o 1 teaspoon (5 ml) 25 percent mild detergent or dishwashing soap, e.g., Woolite or Palmolive (1 volume detergent or soap + 3 volumes water)
- o 2 teaspoons (10 ml) 95 percent ethanol, chilled on ice
- o small clear tube with seal

TEACHER'S GUIDE
Cracking the Code of Life



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