



DNA Fingerprinting

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1. Because DNA is net negative in charge, it will migrate towards the _____ electrode.
2. Three-letter abbreviation for a procedure that amplifies DNA.
3. Recognition _____ are where restriction enzymes cut.
4. Alternate forms of a gene are called _____.
5. A device used to deliver samples to a gel.
6. A small circular DNA found in bacteria.
7. The process of transferring DNA from a gel to a nylon membrane after electrophoresis.
8. A type of cell that has a nucleus.
9. Chemical _____ make up the "rungs" of the DNA ladder.
10. The three-letter abbreviation for the material which contains the genetic code.
11. The process by which molecules are separated by size, shape and charge.
12. The gel is made with _____, which is derived from seaweed.
13. These living organisms are "tools" used for cloning.
14. The action by which DNA is taken out of solution onto a glass rod is called _____.
15. There are 23 pairs of these located in the cell nucleus.
16. The four-letter abbreviation for the unique molecular genetic profile or "fingerprint" of an individual's DNA.

B	J	J	C	K	W	S	E	S	A	B	O	U	S	X	R	Q	S	Q	P
Y	Z	R	J	H	H	X	J	H	K	J	S	O	B	G	Q	A	B	N	O
K	S	E	I	P	R	O	K	A	R	Y	O	T	E	Z	A	B	A	S	P
B	V	U	S	Z	J	D	I	E	S	O	R	A	G	A	S	Q	L	V	C
X	F	K	Q	T	U	F	I	Z	H	A	F	B	P	I	E	R	L	O	R
Y	F	A	Q	N	P	I	R	Q	T	L	L	Q	B	T	L	U	E	R	T
W	T	R	C	M	P	G	S	Q	Z	C	P	B	A	G	E	M	L	P	J
P	F	Y	E	S	T	J	I	K	L	H	Z	N	U	S	C	A	E	A	W
R	T	O	H	V	E	V	T	F	J	R	D	X	E	R	T	R	S	I	N
O	T	T	E	U	P	T	E	A	I	O	B	E	L	L	R	G	G	R	E
B	X	E	V	E	I	T	S	R	Y	M	E	Q	O	T	O	O	N	E	C
E	M	Y	I	F	P	N	L	L	S	O	B	T	Y	K	P	I	I	T	A
X	Z	K	T	V	O	O	N	O	I	S	I	N	R	S	H	D	L	C	F
D	J	N	I	F	R	R	D	S	Q	O	R	K	C	X	O	A	O	A	R
G	U	O	S	R	C	S	G	T	K	M	L	E	W	V	R	R	O	B	E
M	E	V	O	A	I	C	M	J	W	E	F	H	S	V	E	O	P	S	T
T	O	N	P	S	M	D	Z	Z	K	S	I	T	X	E	S	T	S	L	N
F	D	W	E	V	Z	G	L	I	C	J	X	S	S	L	I	U	J	Q	I
P	J	G	J	S	G	Y	C	J	A	M	D	P	P	G	S	A	O	I	R
M	T	F	D	I	M	S	A	L	P	X	M	X	L	D	Z	W	L	X	W

17. A labeled _____ will bind to single-stranded DNA that have the complementary sequence of DNA.
18. X-ray film which shows the positions of DNA probes.
19. The "line" separating the DNA solution and alcohol when isolating chromosomal DNA.
20. These are located at specific sites on chromosomes.
21. Bacteria are this type of cell that has no nucleus.

Lab Extensions / Activities

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Lab Extensions / Activities

PUZZLE SOLUTION

1. positive
2. PCR
3. sites
4. alleles
5. micropipet
6. plasmid
7. blot
8. eukaryote
9. bases
10. DNA
11. electrophoresis
12. agarose
13. bacteria
14. spooling
15. chromosomes
16. RFLP
17. probe
18. autoradiogram
19. interface
20. genes
21. prokaryote

B	J	J	C	K	W	S	E	S	A	B	O	U	S	X	R	Q	S	Q	P
Y	Z	R	J	H	H	X	J	H	K	J	S	O	B	G	Q	A	B	N	O
K	S	E	I	P	R	O	K	A	R	Y	O	T	E	Z	A	B	A	S	P
B	V	U	S	Z	J	D	I	E	S	O	R	A	G	A	S	Q	L	V	C
X	F	K	Q	T	U	F	I	Z	H	A	F	B	P	I	E	R	L	O	R
Y	F	A	Q	N	P	I	R	Q	T	L	L	Q	B	T	L	U	E	R	T
W	T	R	C	M	P	G	S	Q	Z	C	P	B	A	G	E	M	L	P	J
P	F	Y	E	S	T	J	I	K	L	H	Z	N	U	S	C	A	E	A	W
R	T	O	H	V	E	V	T	F	J	R	D	X	E	R	T	R	S	I	N
O	T	T	E	U	P	T	E	A	I	O	B	E	L	L	R	G	G	R	E
B	X	E	V	E	I	T	S	R	Y	M	E	Q	O	T	O	O	N	E	C
E	M	Y	I	F	P	N	L	S	O	B	T	Y	K	P	I	I	T	A	
X	Z	K	T	V	O	O	N	O	I	S	I	N	R	S	H	D	L	C	F
D	J	N	I	F	R	R	D	S	Q	O	R	K	C	X	O	A	O	A	R
G	U	O	S	R	C	S	G	T	K	M	L	E	W	V	R	R	O	B	E
M	E	V	O	A	I	C	M	J	W	E	F	H	S	V	E	O	P	S	T
T	O	N	P	S	M	D	Z	Z	K	S	I	T	X	E	S	T	S	L	N
F	D	W	E	V	Z	G	L	I	C	J	X	S	S	L	I	U	J	Q	I
P	J	G	J	S	G	Y	C	J	A	M	D	P	P	G	S	A	O	I	R
M	T	F	D	I	M	S	A	L	P	X	M	X	L	D	Z	W	L	X	W



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