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TIME

Want to Know My Future?



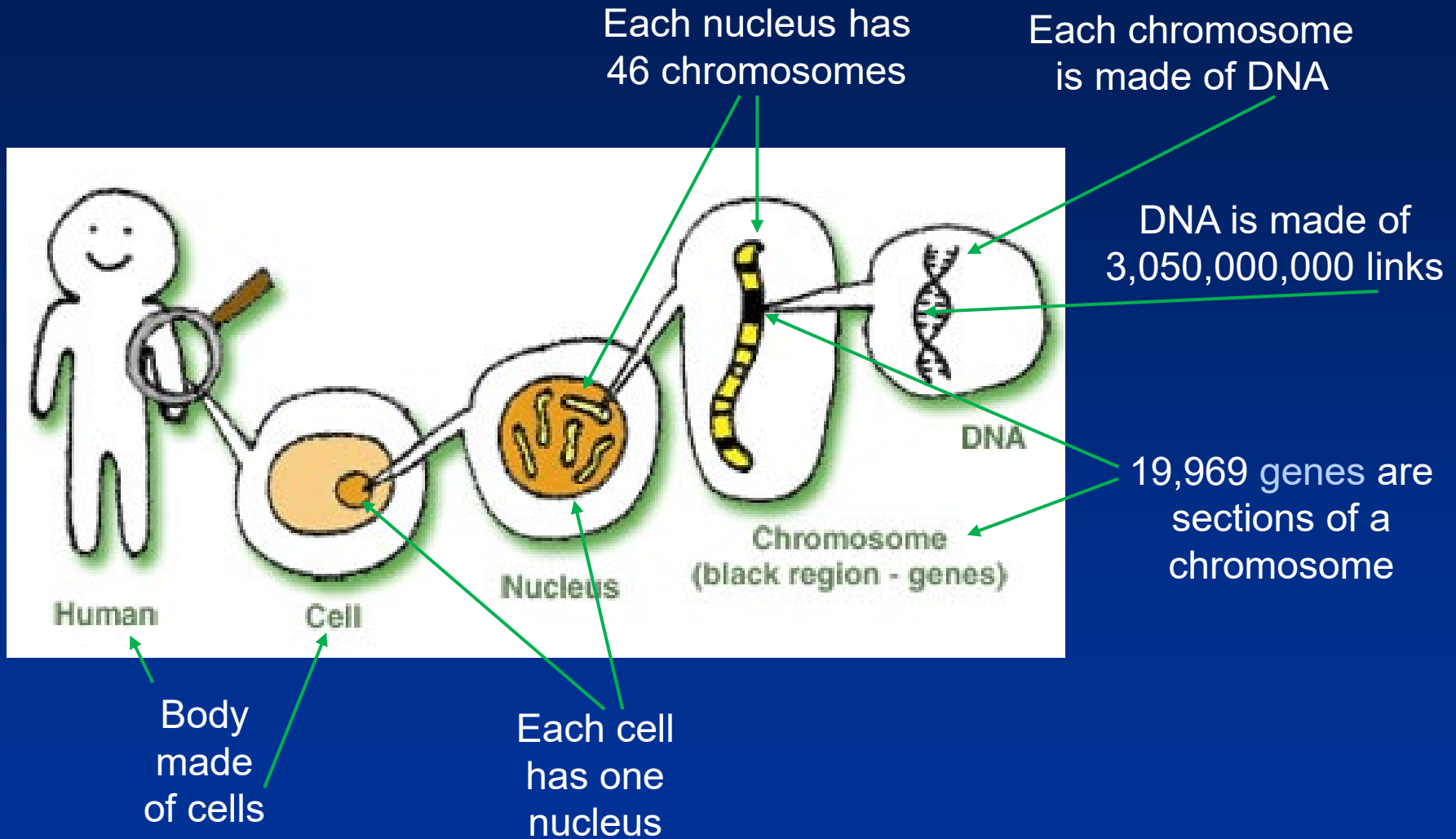
New genetic tests can point to risks—
but not always a cure

BY BONNIE ROCHMAN

“Genetics...is like the beginning of the internet in 1993”

...George Church
Harvard Medical School

Basic Genetics (one slide) -- DNA?...chromosome? ...gene?



What determines our future? ...”Nature versus Nurture”



Genetics?
("Nature")

(both)



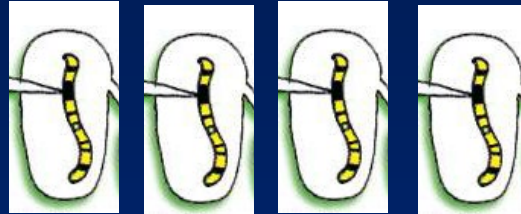
Upbringing?
("Nurture")



Now: Can genes tell our future?

Answer: "to some extent"

Limitations



Many Genes -> One Effect
(Polygenics)



Genes have "On - Off" Switch
(Epigenetics)



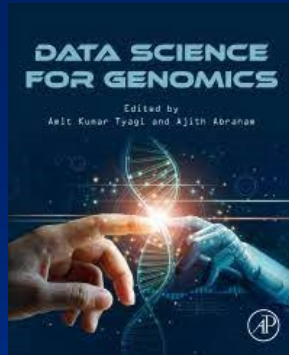
In the future: Can genes tell our future?

Answer: "more and more"

2003

2021

2040?



Human Genome Project
Total = ~20,000 genes
Function = 0



T2T Project
Total = 19,969
Functions = 115+



"more & more"
Functions: >115

