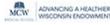


*Recreational Genomics vs. Clinical Genomics: Is all genetic testing the same?*

Jennifer Geurts, MS, CGC



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**GENETICS 101**



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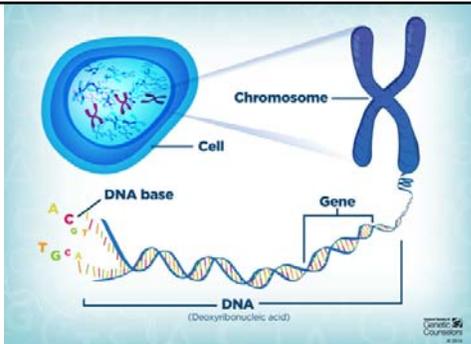
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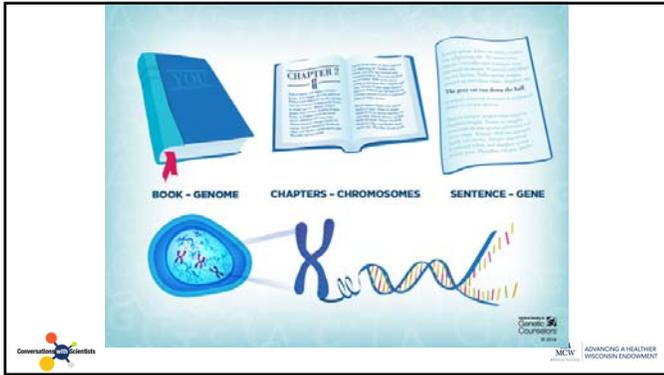
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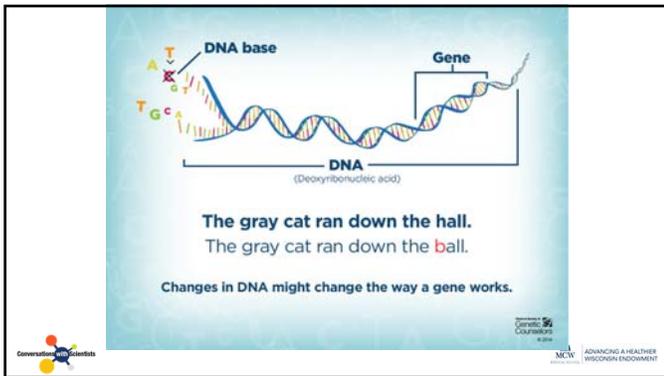
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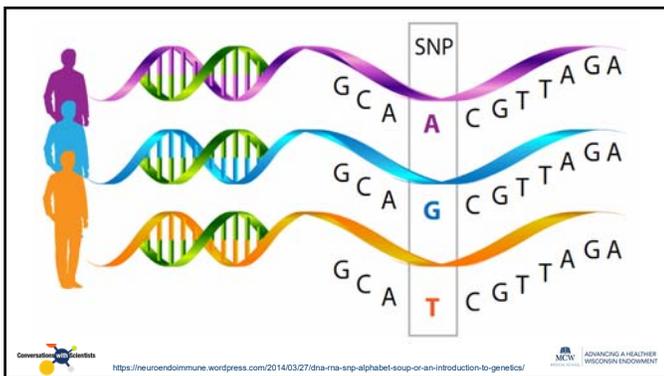
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Genetic counseling is the process of helping people *understand* and *adapt* to the medical, psychological and familial implications of genetic contributions to disease.

Conversations with Scientists | MCW | ADVANCING A HEALTHIER WISCONSIN ENDOWMENT

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TESTING APPLICATIONS

Conversations with Scientists | MCW | ADVANCING A HEALTHIER WISCONSIN ENDOWMENT

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### Genetic Testing

- Ethnicity Estimation
- Relative Finder
- Traits
- Health Risks
- Raw Data File Access
- Direct to Consumer (DTC)
  - Does not have to go through health care provider
  - Accessed directly by consumer
  - Typically limited regulation/oversight for consumer protection

Conversations with Scientists | MCW | ADVANCING A HEALTHIER WISCONSIN ENDOWMENT

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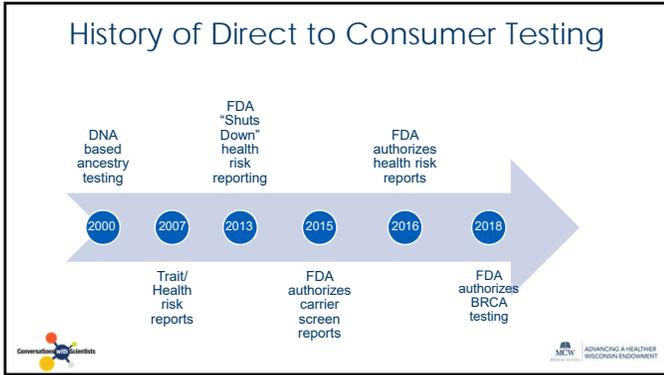
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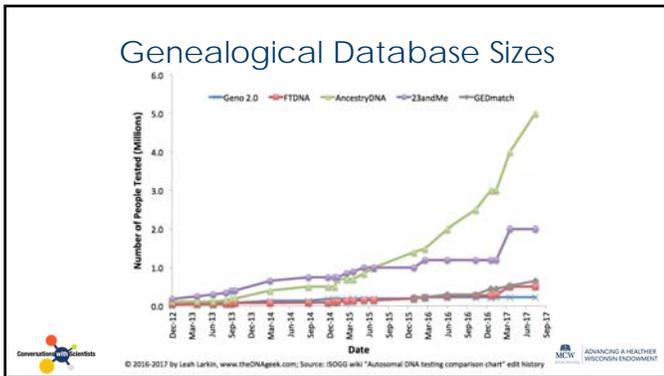
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### Ancestry

A screenshot of the Ancestry.com website showing the 'Ancestry Composition' section. It includes a pie chart with 'EM' (European/Mediterranean) highlighted, a world map, and a list of bullet points.

- Advancing family history research
- Locating unknown genetic relatives
- Immigration/citizenship purposes
- Generalized curiosity

Logos for Conversation Genetics and MCW (Advancing a Healthier Wisconsin Endowment) are at the bottom.

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"Be sure to read our full privacy statement...."



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### Take Home Thoughts

- Be a smart consumer and a proactive patient
- Recreational Genomics primary purpose is for hobby not clinical utility
- Clinical Genomics primary purpose is medically necessary for:
  - Prevention
  - Early detection/Diagnosis
  - Treatment
  - Family planning
- Consult a genetics expert when pursuing testing for health reasons



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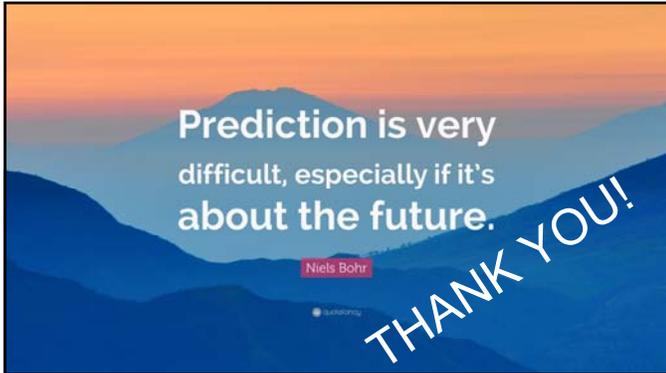
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Prediction is very difficult, especially if it's about the future.

Niels Bohr

THANK YOU!



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