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# Genealogy

Oh, the places you'll go  
... Dr. Seuss



# Personal Computers

- If you don't have one – get one or go to your local library
- If you buy one, plug it in
- Purchase or download free software to organize your family information
- If you purchase software, load it
- Update your software



# Personal Computer

## Genealogy in our Jammies

- Message Boards
- Online Census Records
- Online databases

# Personal Computer

- Family History Centers (Mormon Church)
- National Archives
- National Park Service
- Bureau of Land Management



# Free Websites

- [Rootsweb.com](https://www.rootsweb.com)
- [Familysearch.org](https://www.familysearch.org)
- [USGenWeb.org](https://www.usgenweb.org)
- [WorldGenWeb.org](https://www.worldgenweb.org)

# Fee Based Websites

(...free at your local libraries)

» Ancestry.com

» Heritage Quest



# Beware

- Garbage In – Garbage Out
- 70 percent of genealogies on the website contain major errors
- Use as a guide or for clues
- Find sources for your information





# New Technologies

- Laptops and PDAs
- Flashdrives
- PowerPoint Presentations for Grandkids
- GPS Systems to locate and mark gravesites
- Digital Cameras
- Scanners



# Genealogy

It Just Gets Better and Better

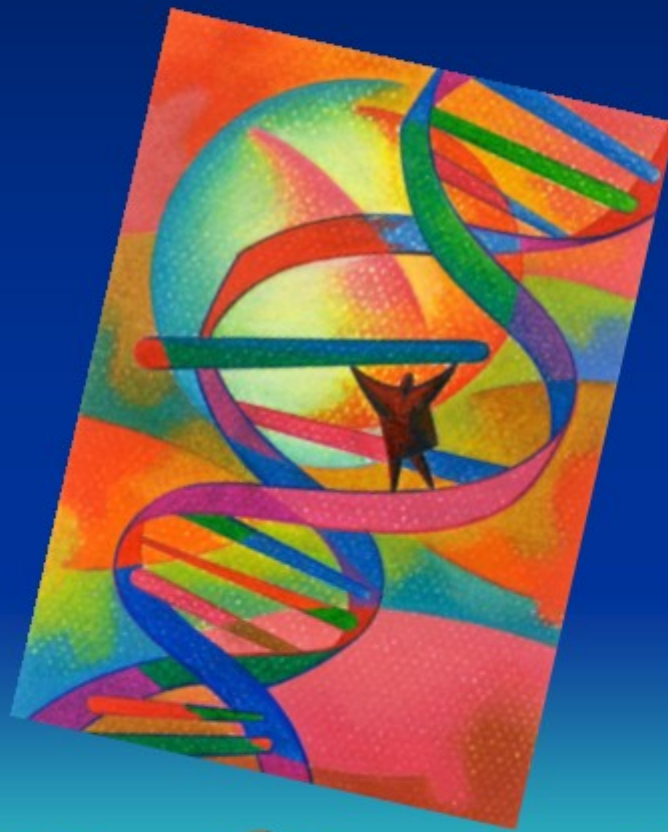


# Personal Computer

- Spawned web-based businesses
- Allows us to view and exchange information around the world.



# DNA and Genealogy



# What DNA Can Tell Us

- **Does Not** tell you who the parents were
- **Does** tell you if two individuals share a common ancestor
- **Can** predict the number of generations to the common ancestor
  
- **Can Tell** you your deep ancestral roots
- **Can Identify** Native American & African Roots, Jewish Tribes



# Males vs Females

Just Raise Your Hand if ....

You can tell me what Males have that  
Females don't have??



# Y Chromosome

Most Common Test used for Genealogy



# Y Chromosome

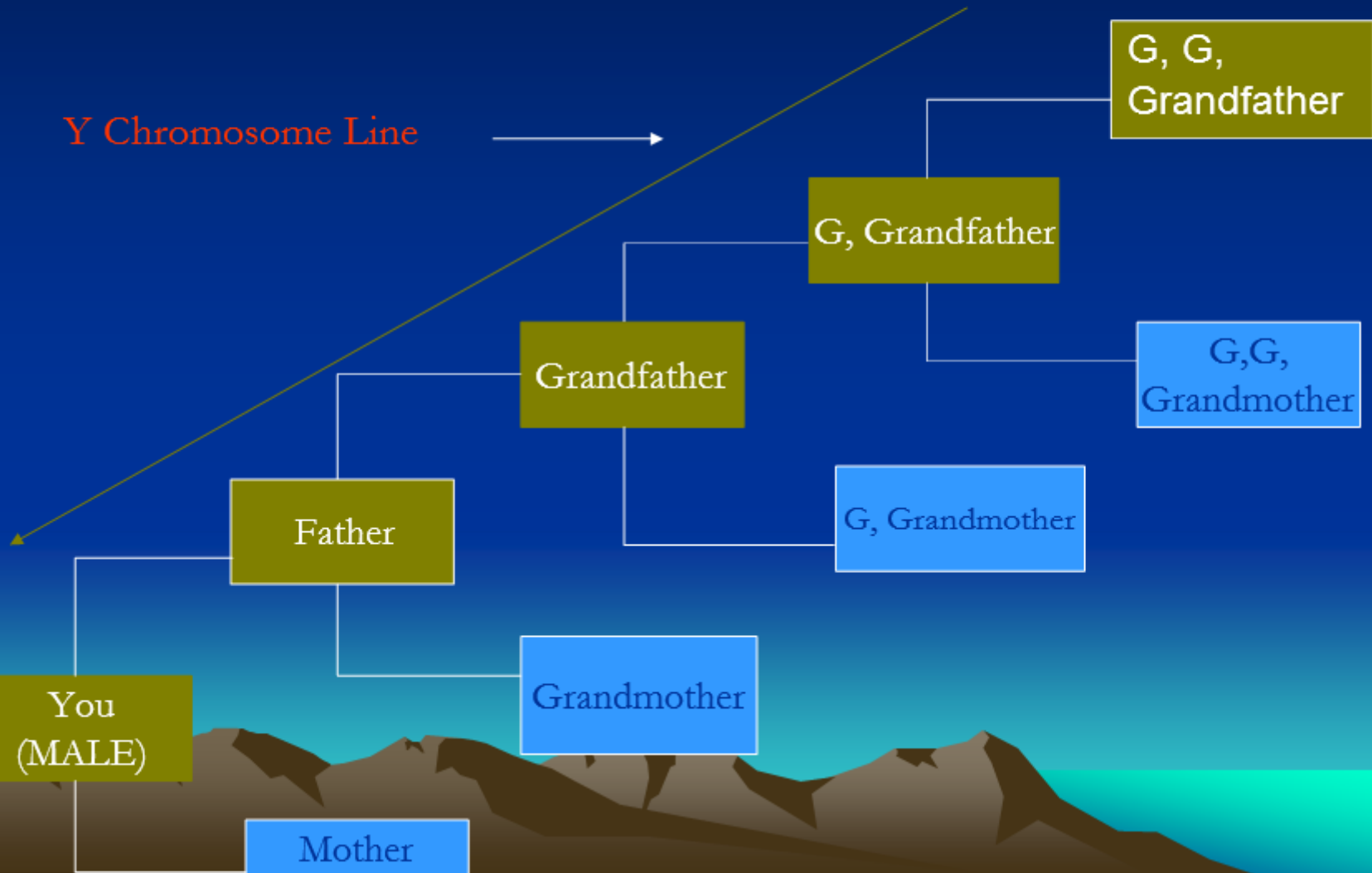
- Where do males get their Y chromosome?
- Where did he get his Y chromosome?





# Pedigree Chart for Males

Y Chromosome Line



# DNA

By examining DNA and noting differences on the Y chromosome, scientists can tell whether two males share an ancestor.



# Y Chromosome

- Mutations occur fairly quickly. Every 500 years or so.
- Different male lines have slight differences (mutations)



# Cost

## Y Chromosome Testing

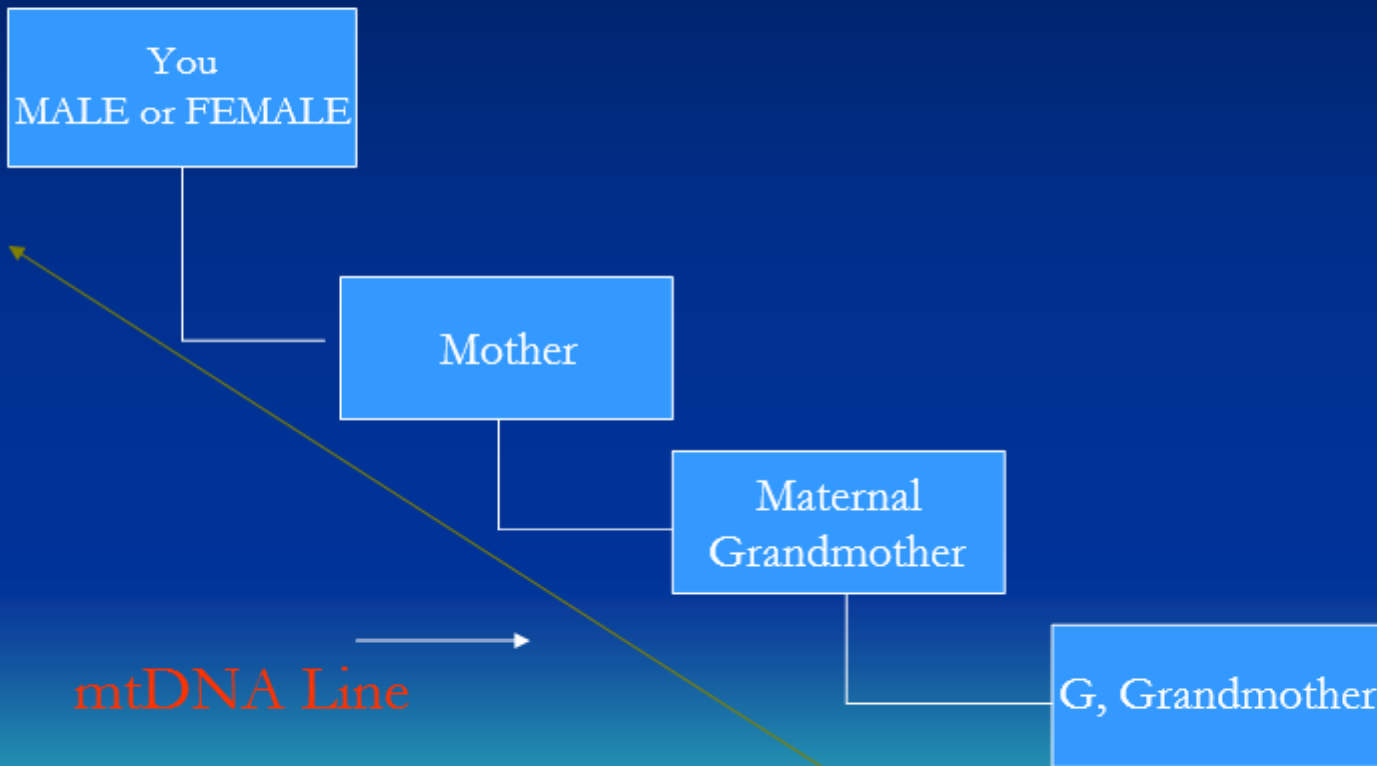
- \$99 - \$259
- 12 to 67 locations (markers) on the chromosome

# Mitochondrial DNA (mtDNA)

- Both females and males have it
- You get it from your mother
- Only females pass it on



# Pedigree Chart for Females



# mtDNA

- Anthropologists have broken down human mtDNA into about 30 distinct groups called Haplogroups, with many sub groups assigned to each group.
- If you match someone on the mtDNA side you will know that you and they share a common female ancestor, but the time to the MRCA is typically **several thousand years ago**, and certainly not less than many hundreds of years.



# The Seven Daughters of Eve

Bryan Sykes

Oxford University in England

Male body found in 1991 in Italian Alps

Recognized that his tools were ancient

Carbon Dated: 5000-5300 Yrs Old

Isolated DNA

Woman Near Oxford was Genetic Descendant





# Eve's Daughters



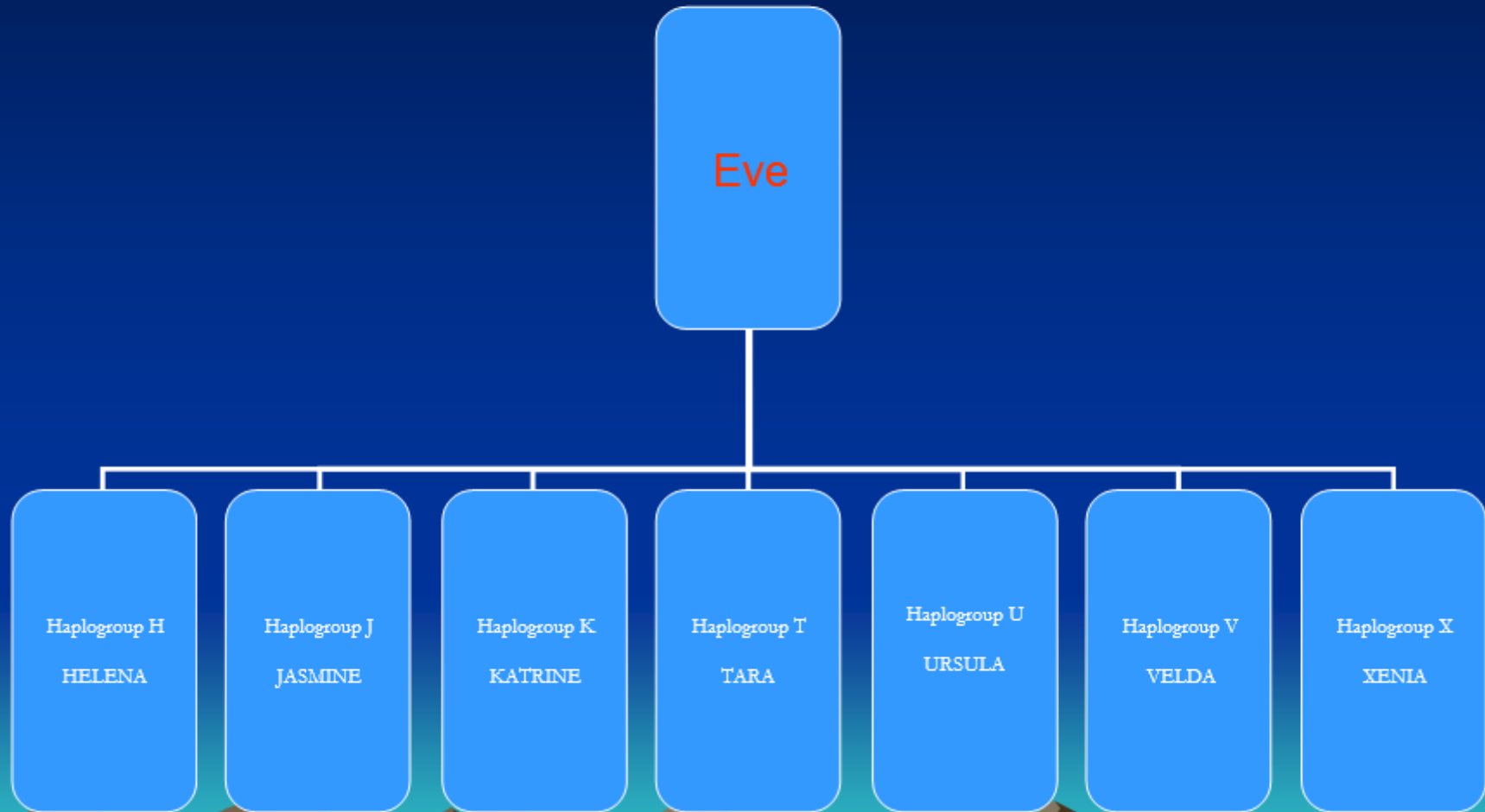
From Africa

To –

Europe

Asia

# The Seven Daughters of Eve



# Cost of mtDNA

\$129 - \$189



# How Do They Collect the Sample?

- You do it at home
- Scrape the inside of your cheek.
  - Place sample in a vial.
- Send to the lab through the mail



# Genographic Project

- is a real time effort to map how humankind populated the earth.
- five-year research partnership between National Geographic and IBM with
- through Family Tree DNA



# New Science

- Cutting Edge -- Evolving as we speak
- This is where the future is going



# Should You Have DNA Testing??

- It saves the DNA at a Laboratory for up to 25 years.
- If new and better tests become available after you die, your descendants can make use of your DNA.



# What Can You Do?

Record Your Memories

It doesn't have to be formal

Just jot it down





# What Can You Do?

Give your descendants copies of your birth  
and marriage records



# What Can You Do?

- Give info to your family to include major events in your life.
- For Your Obituary ??



# What Can You Do?

Obtain Your

Military Service Records



# What Can You Do?

Identify those pictures in boxes

– Sort family from neighbors



# What Can You Do?

## ➤ Save Your DNA

Leave written permission for descendants to continue testing as new tests become available.

In the interest of  
Full  
Disclosure



Genealogy is  
Hazardous  
to your Health



# It's Addictive





# You Develop Female Problems

Sooner or later all genealogists have  
female problems



# Female Problem

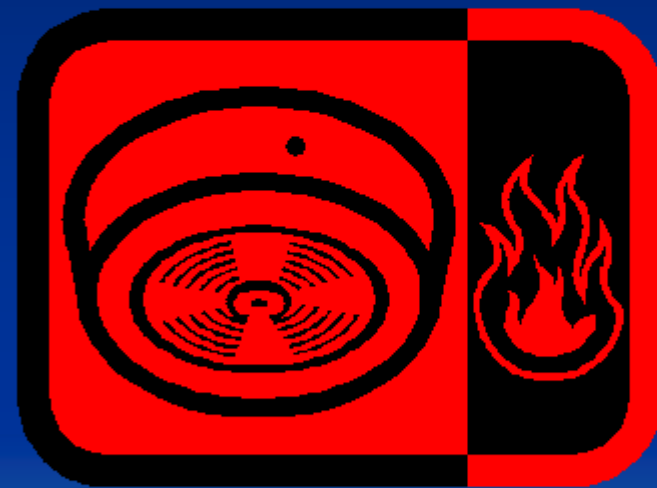
- It was recorded ...
  - Your ancestor Jacob Miles married Mary
  - Or Worse
  - Your ancestor Jacob Miles married Widow Smith

What is your Great Grandmother's Maiden Name???



# You Forget Your Other Responsibilities

(I Burn Dinner)

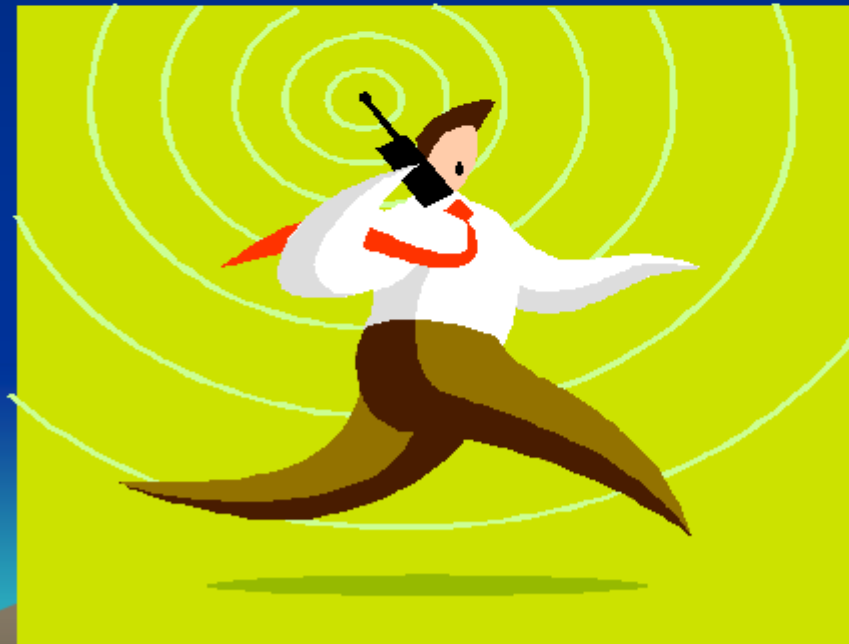


# Be Careful

## You Can Gain Weight

Remember to

Exercise



# We All are a Piece of the Puzzle



# Do It!

Your family will thank you for  
generations

