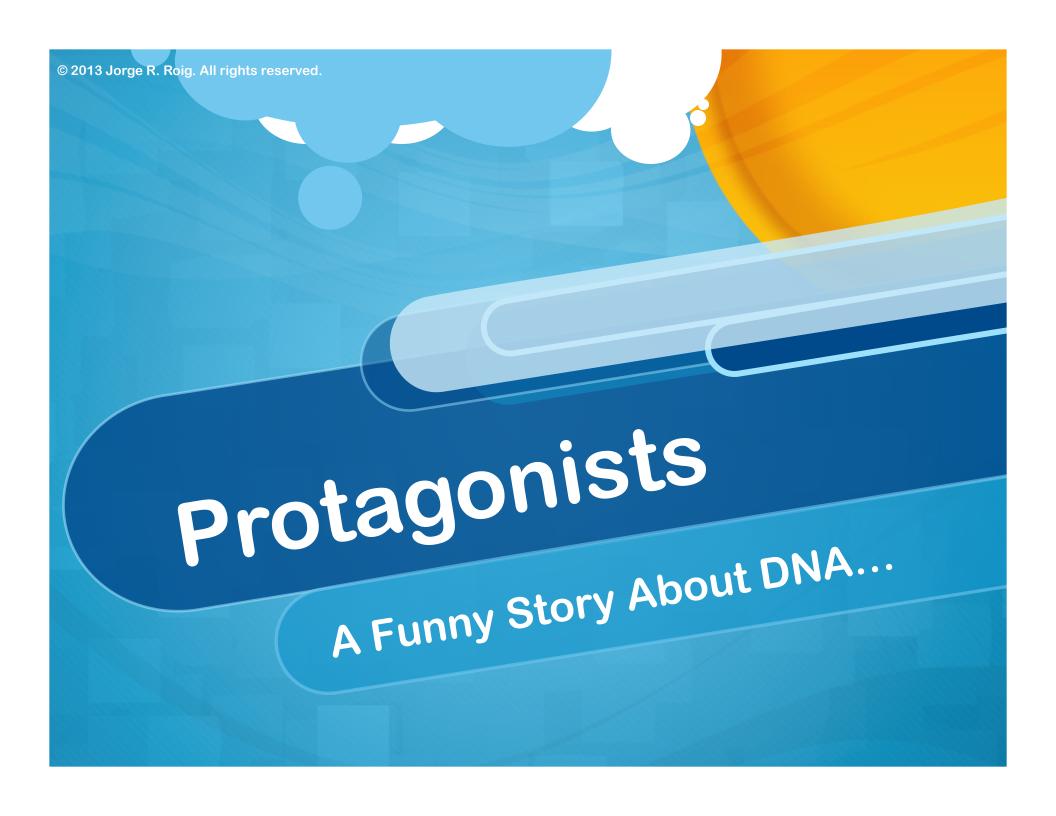
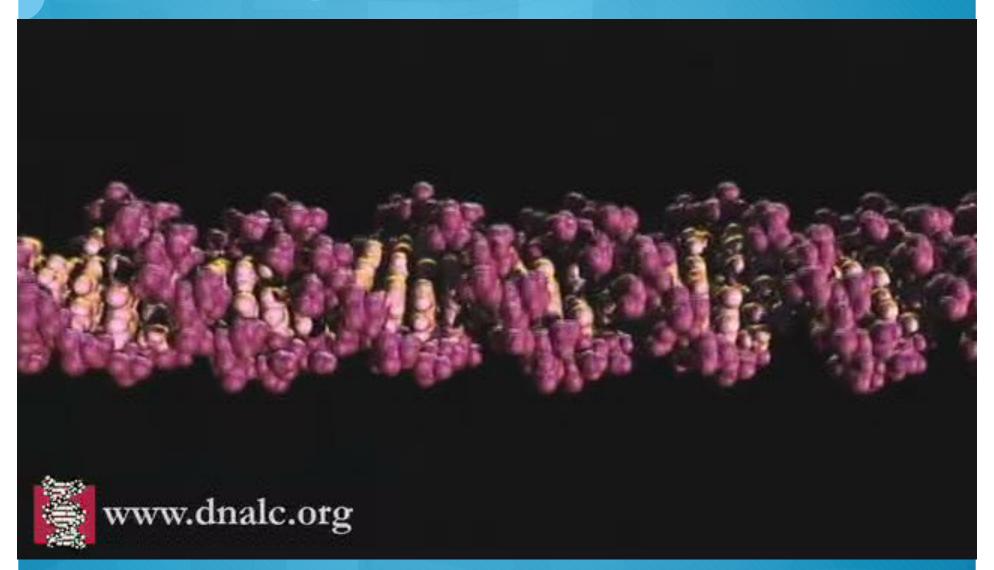


# What do these things have in common?

- Cigarette butts in the streets of NYC
- William Shakespeare
- A glowing bunny



# If You Look a Little Closer...



#### Three Areas of Interest

Free Speech

Intellectual Property

**Privacy** 



# My TED Talk!

http://tedxtalks.ted.com/video/Your-DNA-Speaks-Do-You-Have-a-Ch
Or just Google "Roig and DNA"

## Information as Speech

- O Is informational content sufficient?
  - Ø Big Data
  - O Sorrell
- Who can speak?
  - O Computer Speech
  - O Monkey Selfie!



# Assessing Speech

**Human Activities** 

Social Interactions

First Amendment Values

## Three Types of Activities

- ODNA as Message
- ODNA as Code
- Phenotype as Message



# Cigarette Butts in NYC

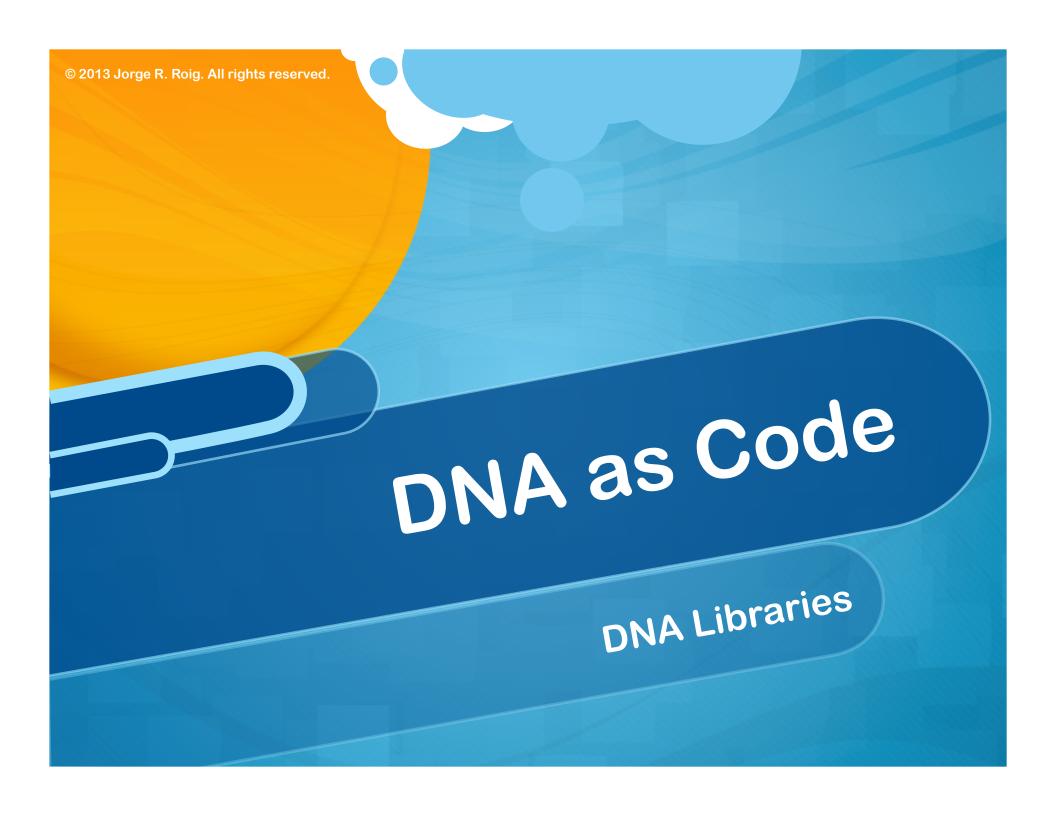
Stranger Visions, HEATHER DEWEY-HAGBORG, <a href="http://deweyhagborg.com/strangervisions/">http://deweyhagborg.com/strangervisions/</a> about.html (last visited Aug. 8, 2014)

#### Potential IP Issues

- Copyright
  - Originality
  - O Authorship
  - Ownership
    - O Joint Ownership?
    - O Licensing?
- Right of Publicity

# Genopolitics

- Relationship between:
  - O DNA
  - Political Ideology
  - Political Engagement
- Troubling potential uses:
  - O Mandated Gene Therapy
  - Genetic Disenfranchisement
  - Choice Manipulation Private Actors



#### **DNA Libraries**

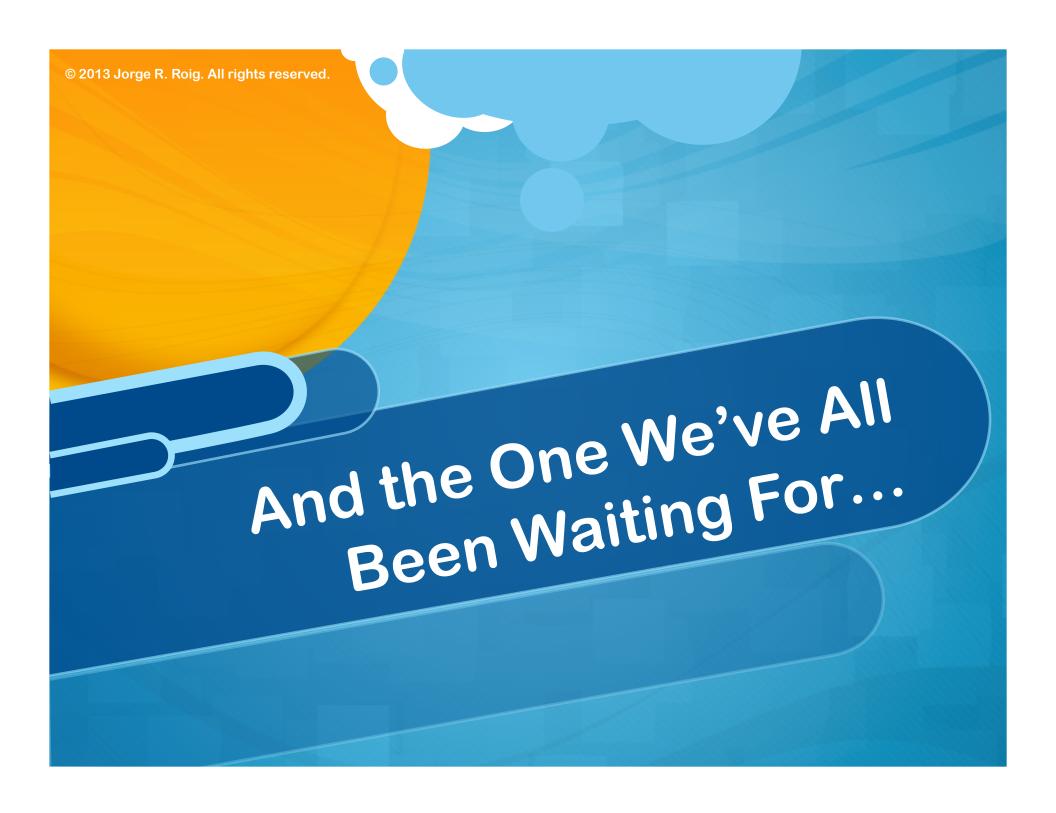
- O Jesse Emspak, DNA Stores MLK's Speech, Shakespeare's Sonnets, Discovery News, http://news.discovery.com/tech/biotechnology/dna-stores-mlk-speech-shakespeare-130123.htm (Jan. 23, 2013, 1:08 PM ET)
- O GEORGE CHURCH AND ED REGIS, REGENESIS: How SYNTHETIC BIOLOGY WILL REINVENT NATURE AND OURSELVES IN DNA (2012)



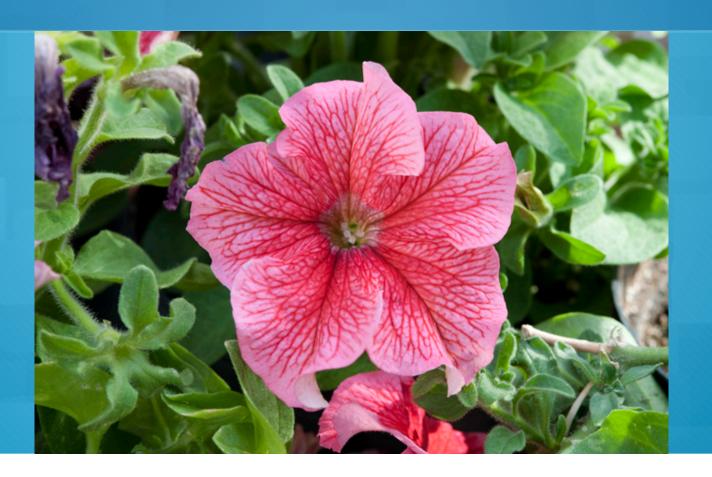
#### Potential IP Issues

- O Right to Reproduce
  - OCopies?
- O Fair Use

  - Storage and Preservation



### The Edunia



#### All Sorts of Questions...

- O What is art?
  - Glowing fish at your local pet store
  - O Designer Children
  - Using your own genome
- Can you own the genome of a new species?
  - O Micro vs. macro
  - Patents and fair use

# THANK YOU!!!!!

