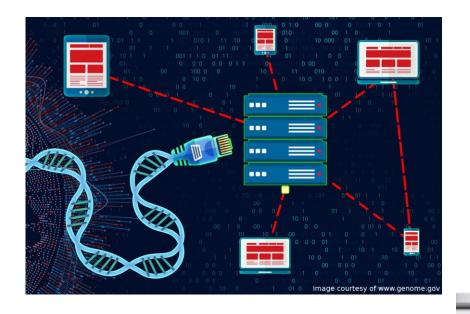


#### Converting biological questions ...



## How is Bioinformatics utilized beyond the classroom?





- DNAnexus, the global leader in biomedical informatics and data management, recently announced <u>DNAnexus</u> Apollo, an enhanced platform for clinico-genomic data science exploration, analysis, and discovery.
- Working with clinical data requires specialized capabilities to maintain privacy; DNAnexus Apollo
  offers a robust features and maintains compliance with HIPAA and CLIA among others.

#### Other Examples

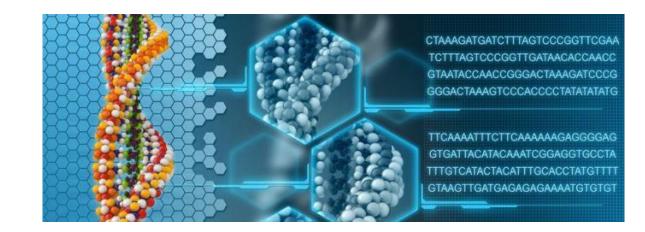
- Pharmaceutical Industry
- Genetic Diseases
- Plant pathology
- Criminal investigations (Forensics)
- Food supply (Genetic engineering)

# What is the time commitment for this program?

#### 2 weeks, 10 lectures

#### **Schedule at a glance**

- Lecture- 10am-12noon
- Coffee breaks,
   Snacks/Food
- Afternoon Computer Lab-
- 12:00-2:30pm (Flex-time to work interact with fellow students)
- Weekends are free!



#### Outline of Lecture Topics

- Web Resources
- Analysis and integration of "omic" and "high-throughput" data
- Protein sequences
- Protein structure prediction
- Drug Design: I want a new drug!
- Molecular dynamics simulations

#### Highlights

- Sapienza University is one of the most prestigious universities in the world
- One of the largest universities in Europe
- Highly ranked across disciplines
- Among top 3% of universities in the world
- 10 Masters Programmes taught entirely in English



### Housing at Sapienza University





#### On-site Amenities





### Dining and Exploring



#### Program Estimated Costs

\$1650- Course tuition (from UD)

- \*\$2200- Room, board and transportation
- \*Plus Airfare



#### Join us online @

https://github.com/initoby/UDRomeBioinformatics