

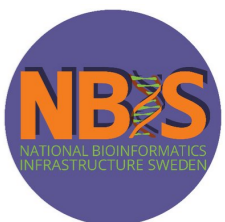
```
print(  
    '.join(  
    'Research',  
    'School'  
    ))
```

Rui Benfeitas 11/11/2019

DATA LAB

 @ruifeitas

 benfeitas



Who am I?

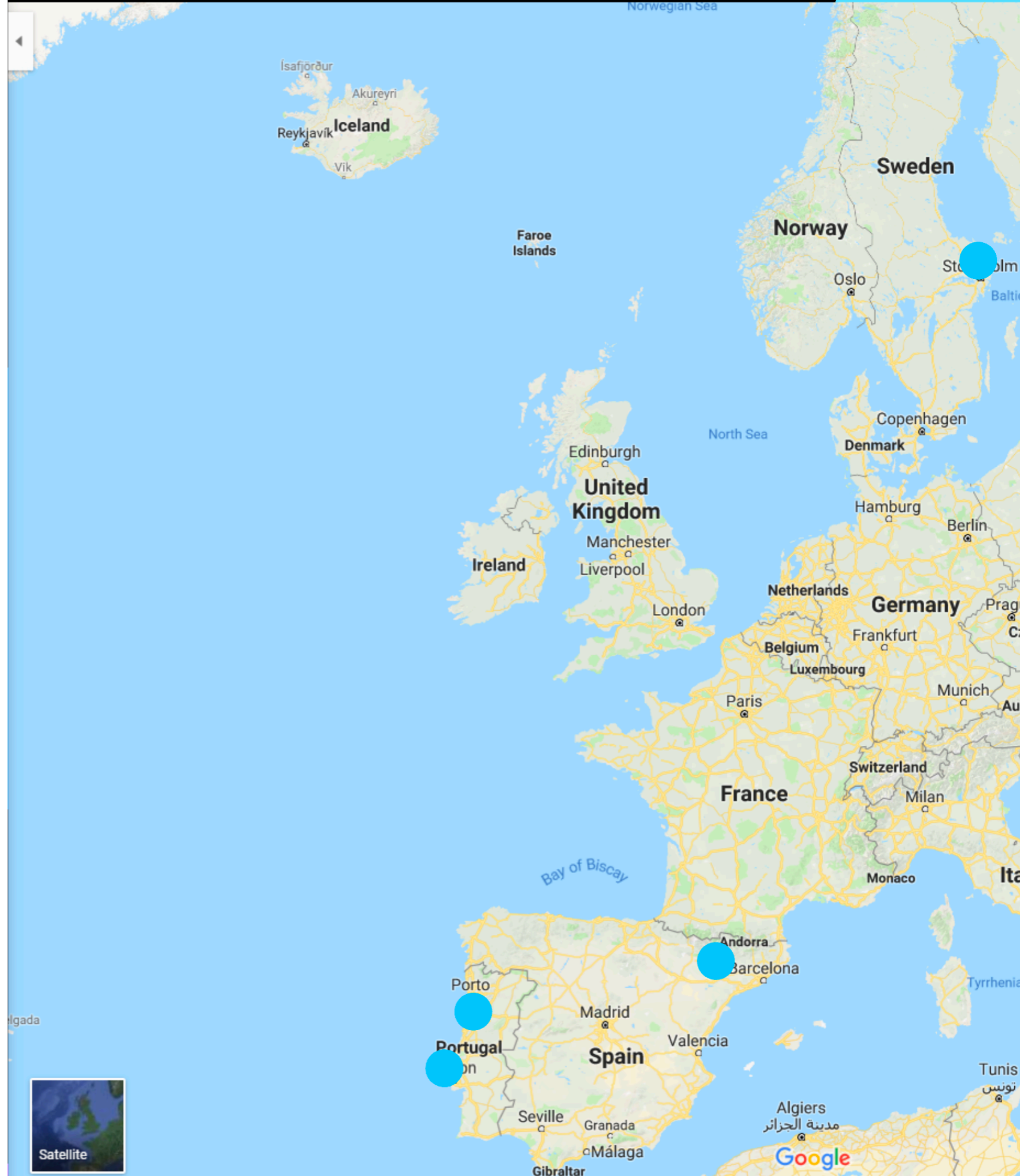
School:
Science! Bio? Maths? Chem?

University:
Bio! Molecular? Ecology?

University (+):
Biochemistry! Study what?

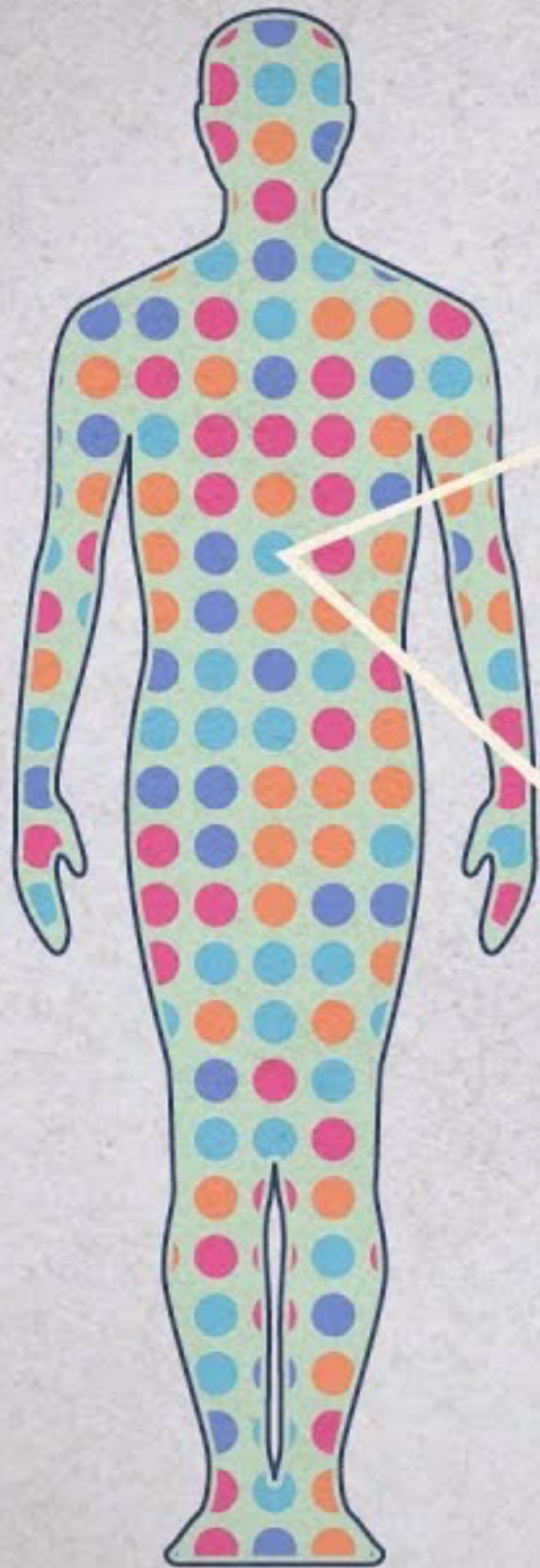
University (++):
Computational Bio

University (+++):
Bioinformatics



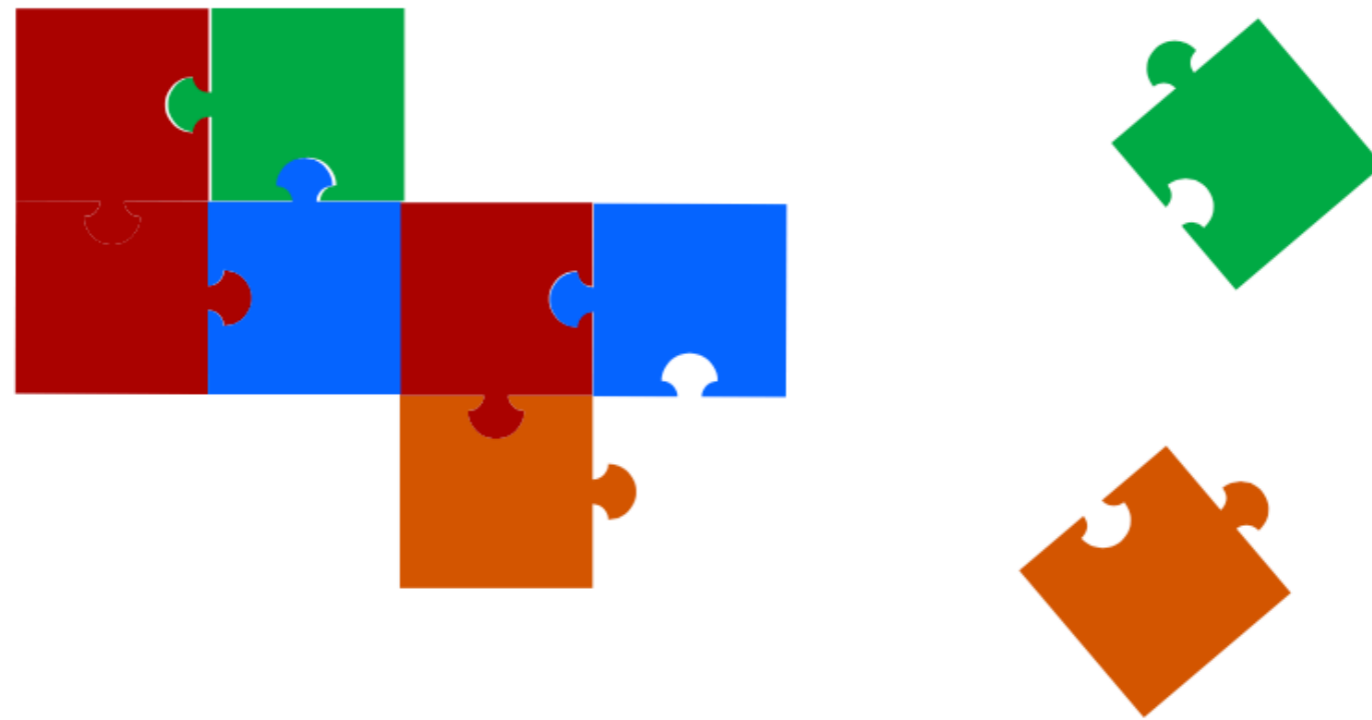


SciLifeLab



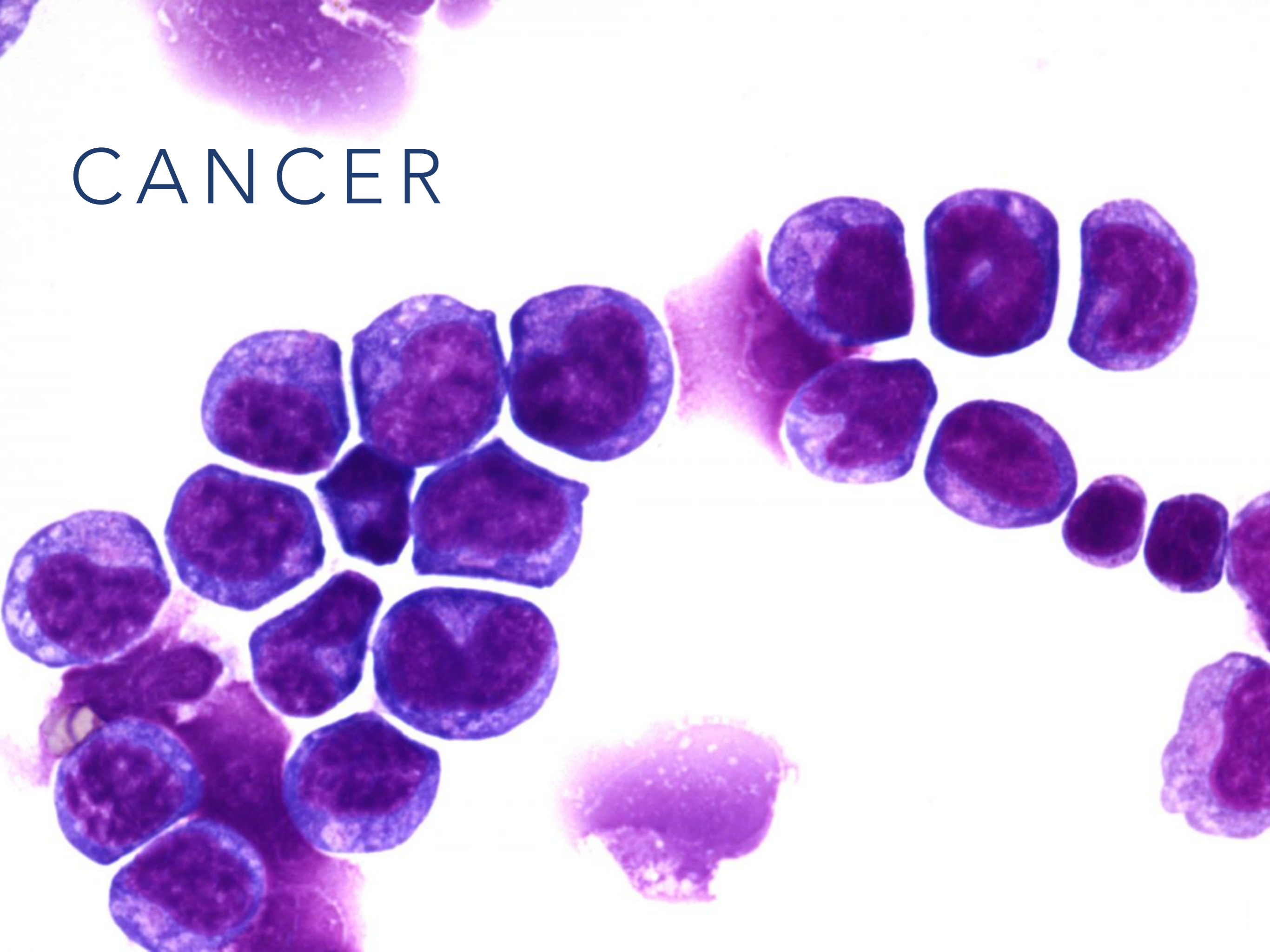
Human genome sequenced in 2003, took 20 years

ACCTACGCAGAC
AGACCCTAGCGA
TAGCGAGGAAT
CGAGGAATCGAGC



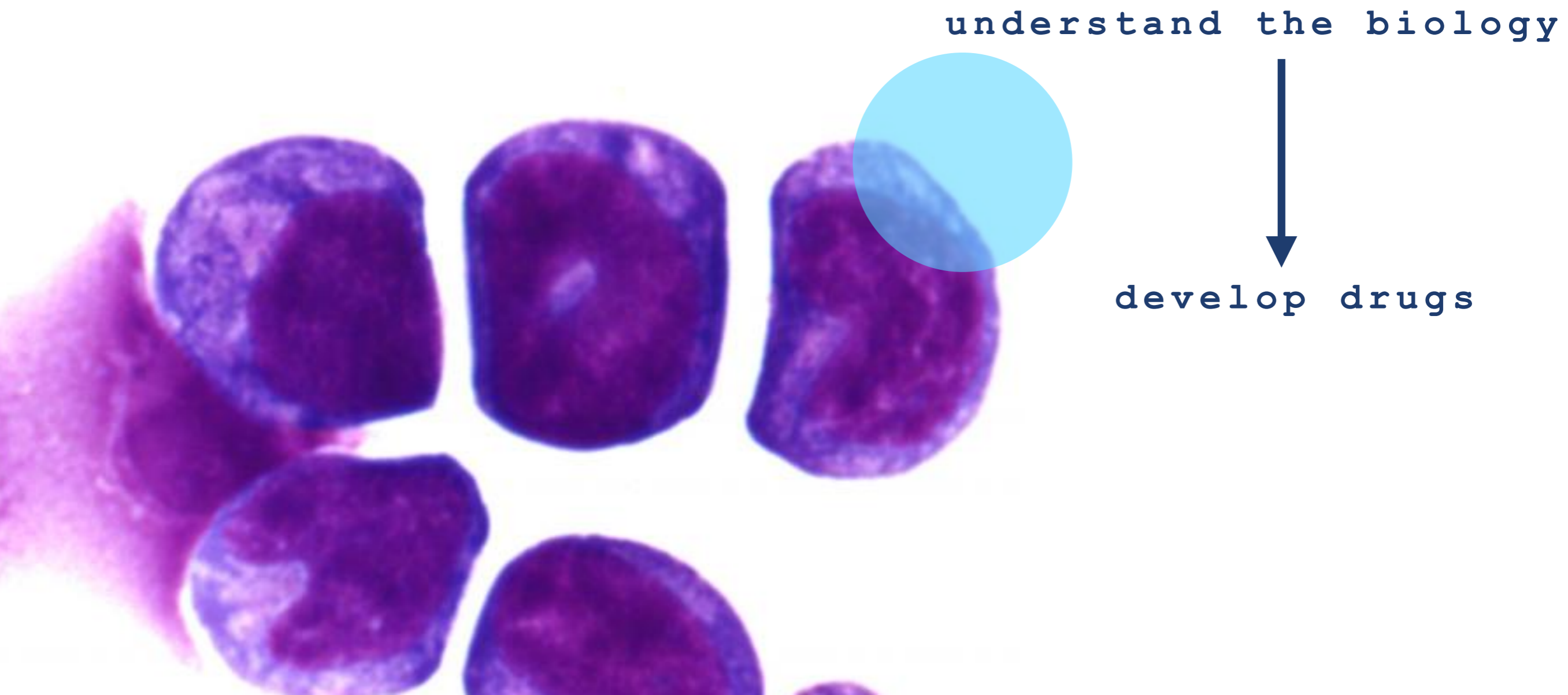
BIOINFORMATICS

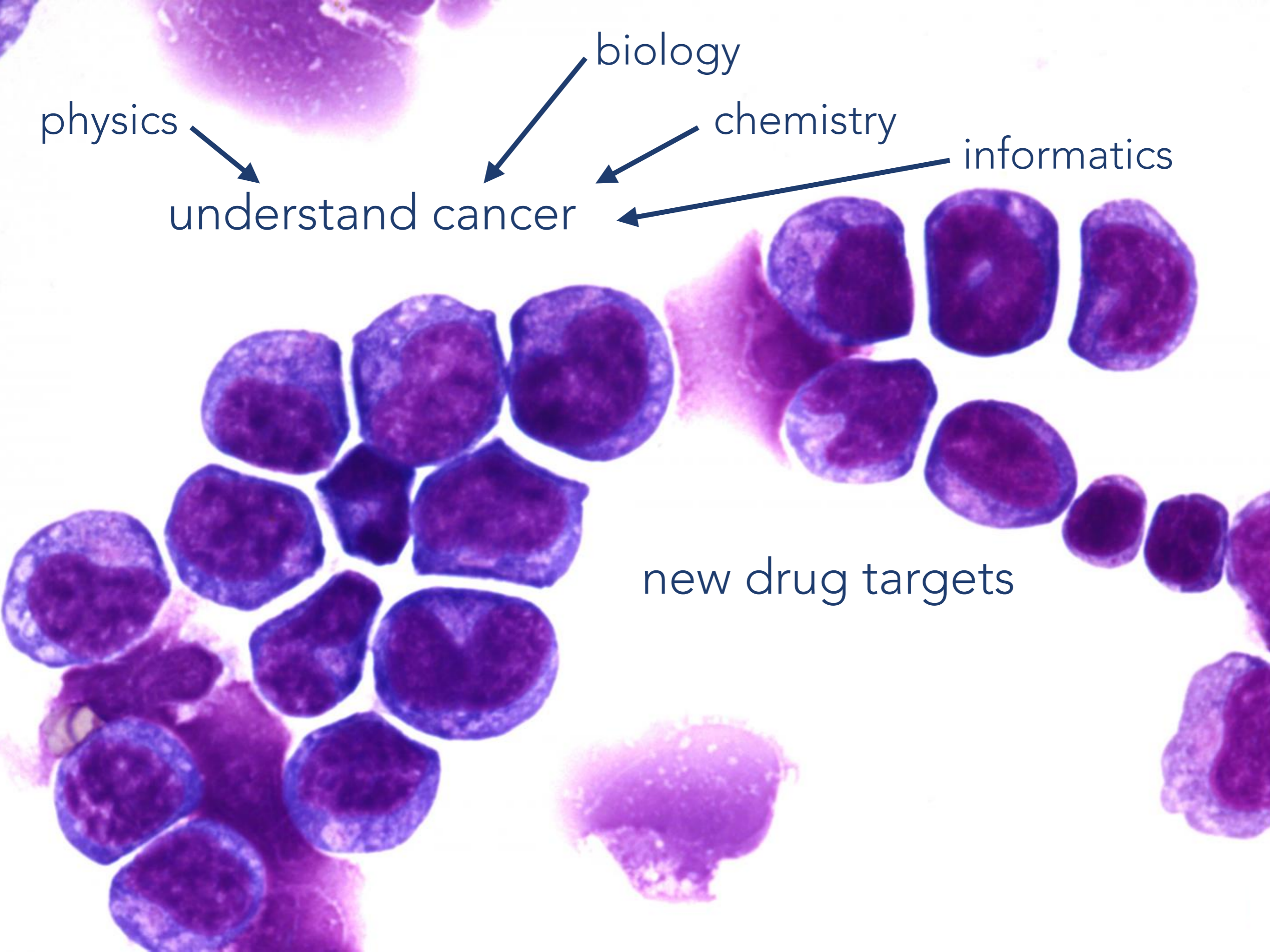
CANCER



CANCER

What is so special about these cells?





physics

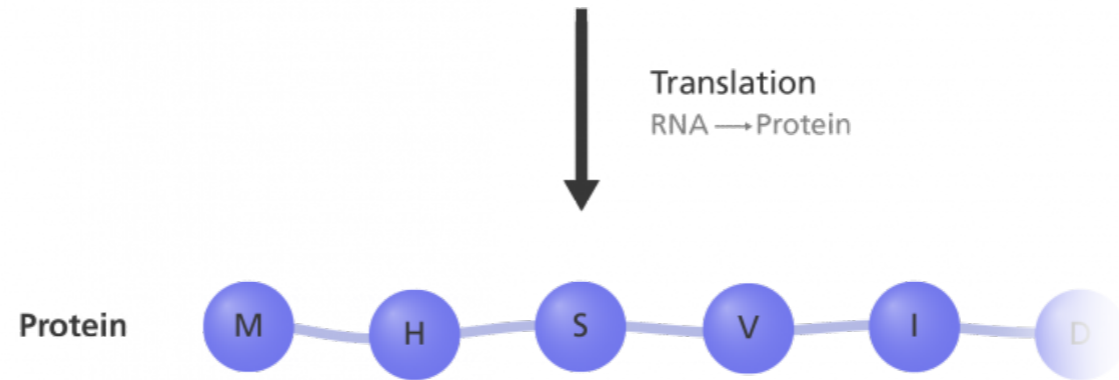
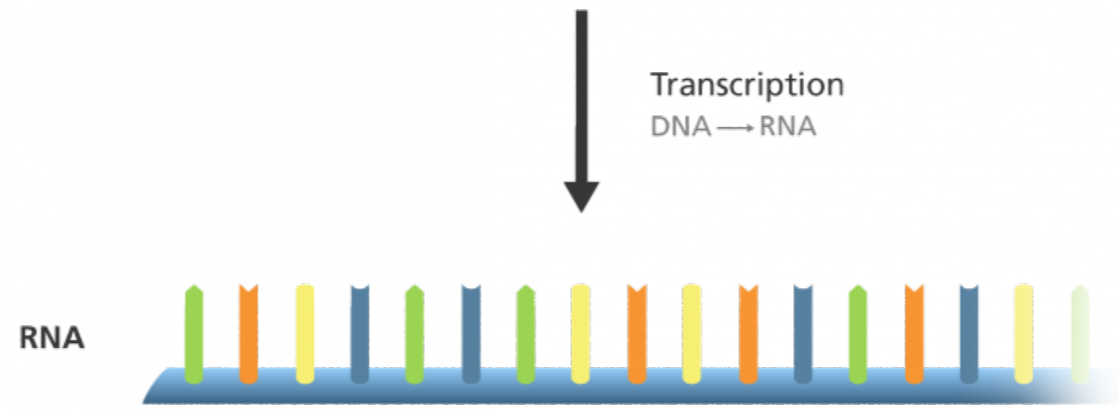
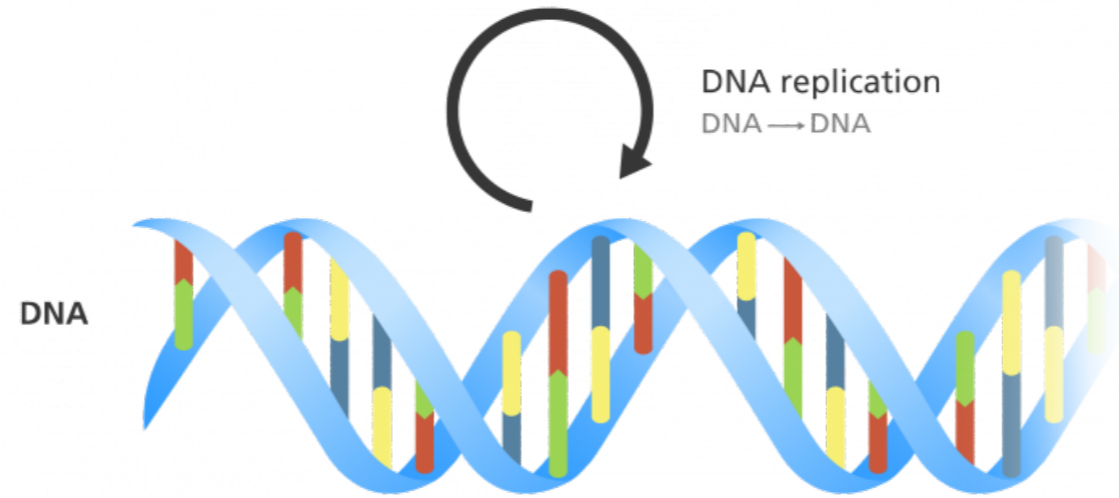
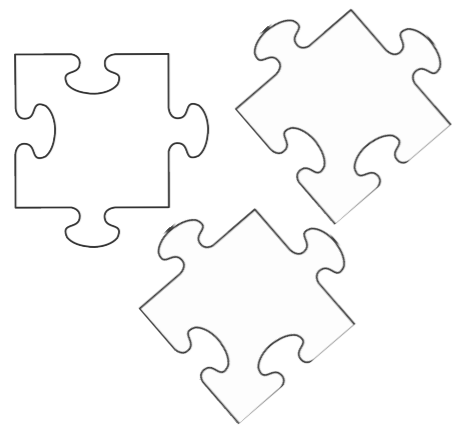
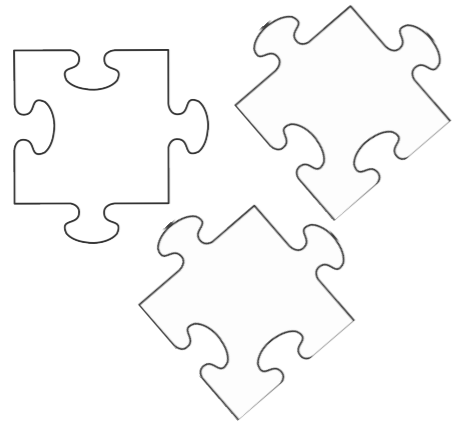
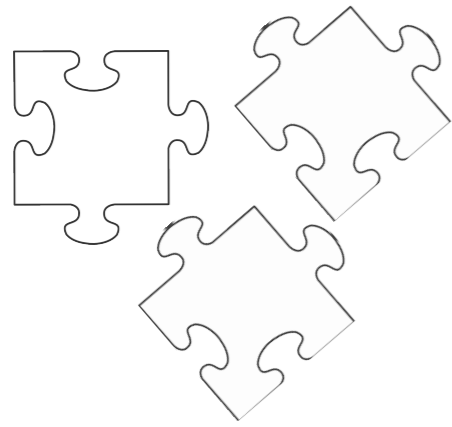
biology

chemistry

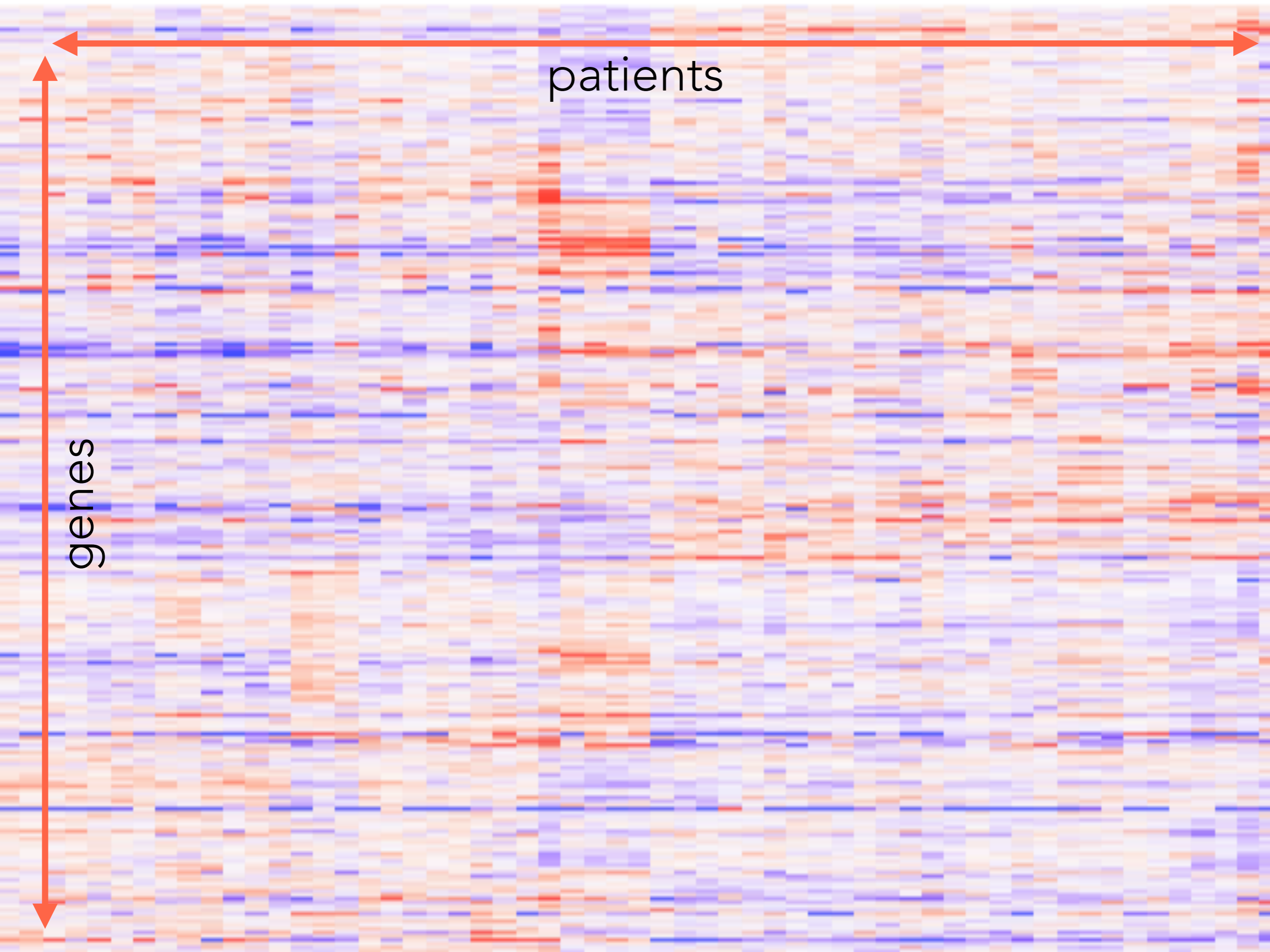
informatics

understand cancer

new drug targets



- Adenine (A)
- Thymine (T)
- Cytosine (C)
- Guanine (G)
- Uracil (U)
- Amino acid





What is a programming language?

(Bio)informatician's best friend:

Google

Lesson plan

Lesson 1: Intro to bioinformatics and Python

Lesson 2: Introduction to Data Analysis

Lesson 3: Introduction to genomics

What do we need?

- Form groups
- Computer
- Internet connection
- Google account

LET'S START

Go to:

researchschool.github.io/researchschool/

or

tiny.cc/researchschool

Let's learn Python!