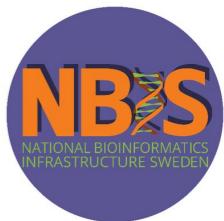


```
print(  
    ' '.join(  
        'Research',  
        'School'  
    ))
```

Rui Benfeitas 11/11/2019

DATA LAB



Who am I?

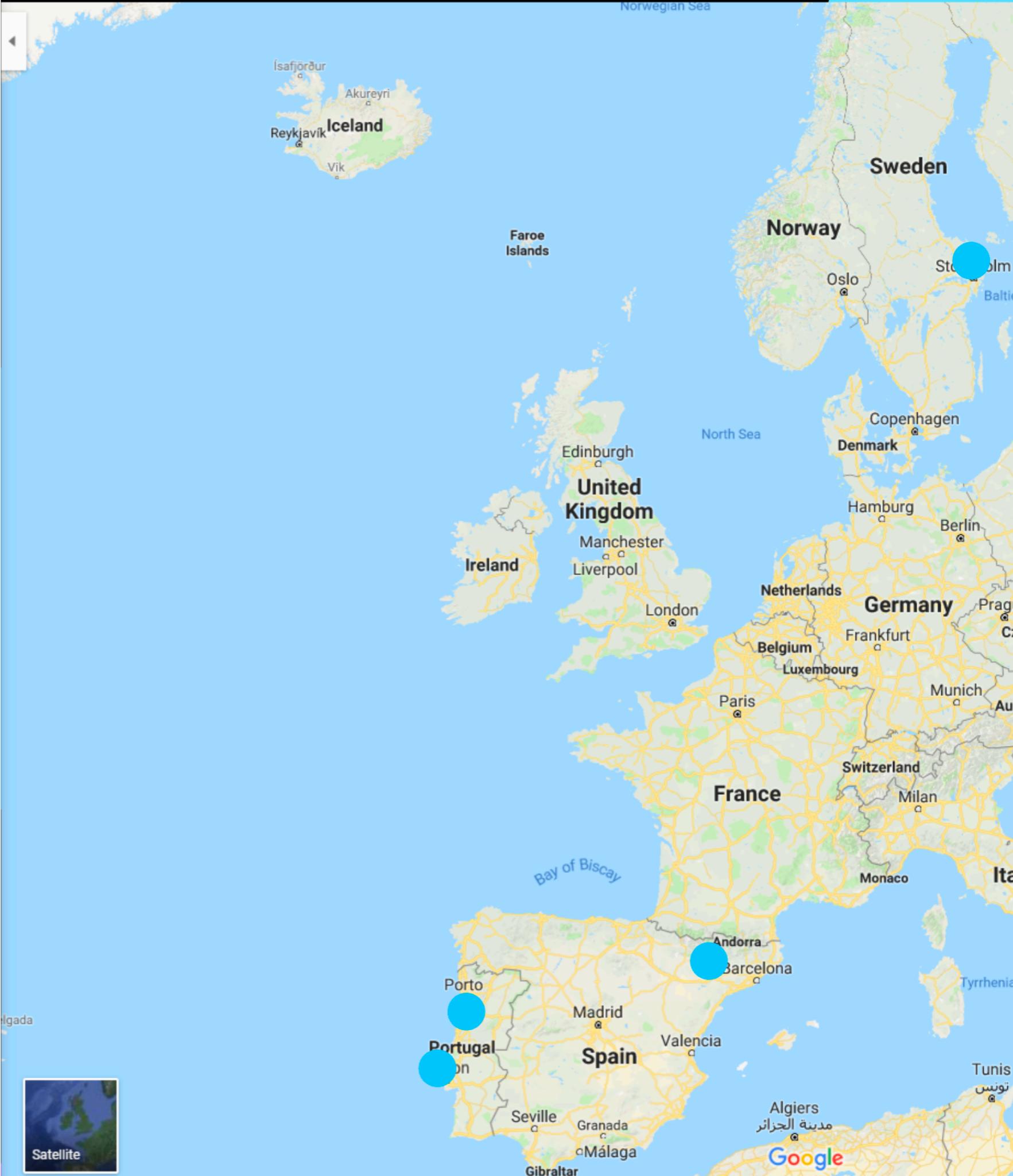
School:
Science! Bio?Maths?Chem?

University:
Bio! Molecular?Ecology?

University (+):
Biochemistry! Study what?

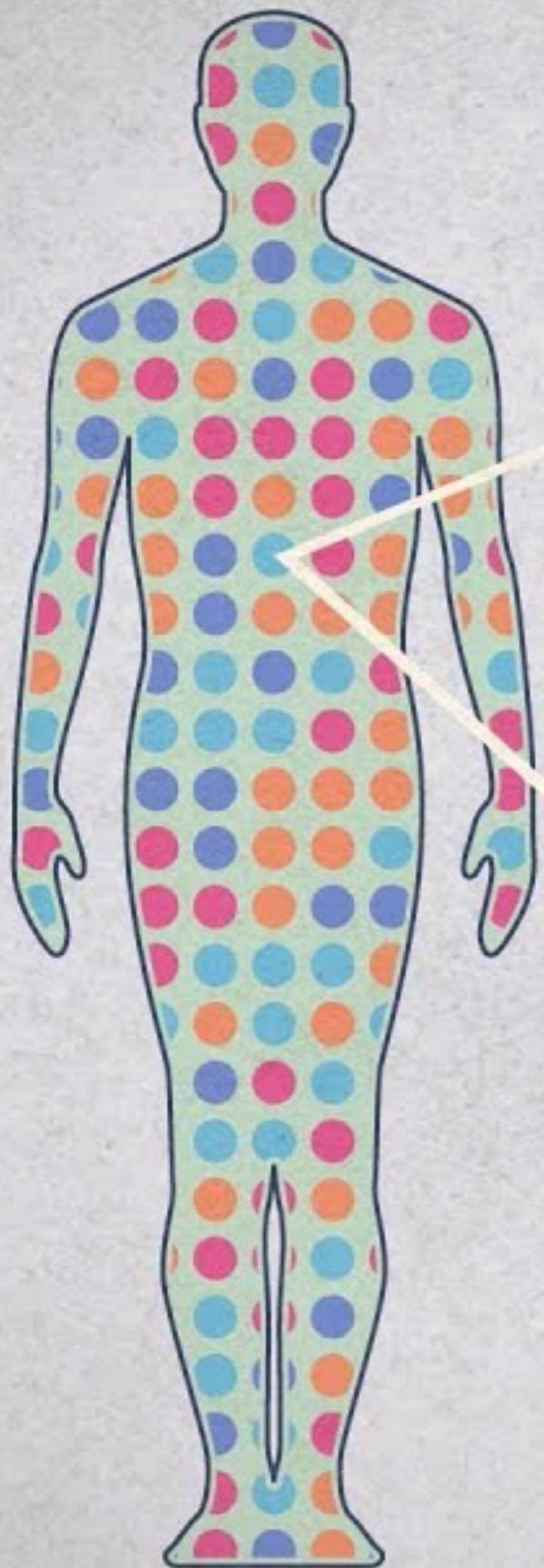
University (++):
Computational Bio

University (+++):
Bioinformatics



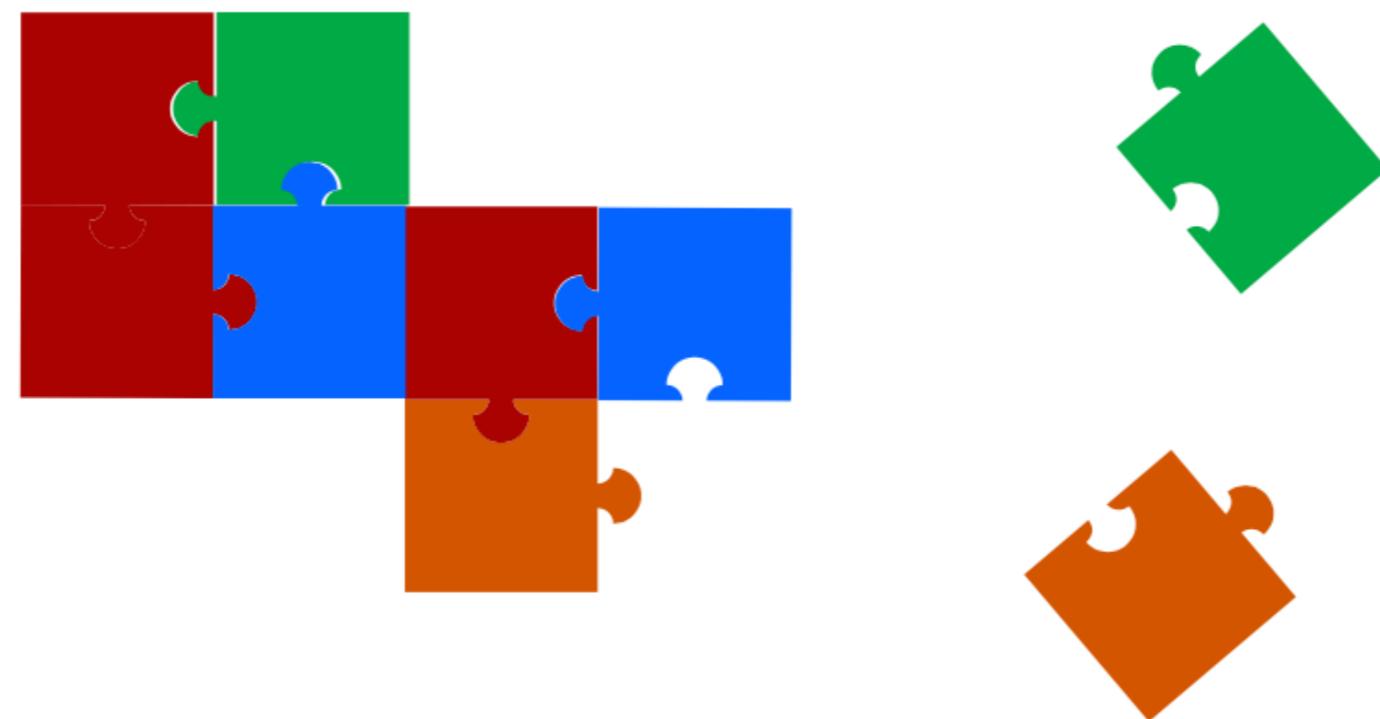


SciLifeLab



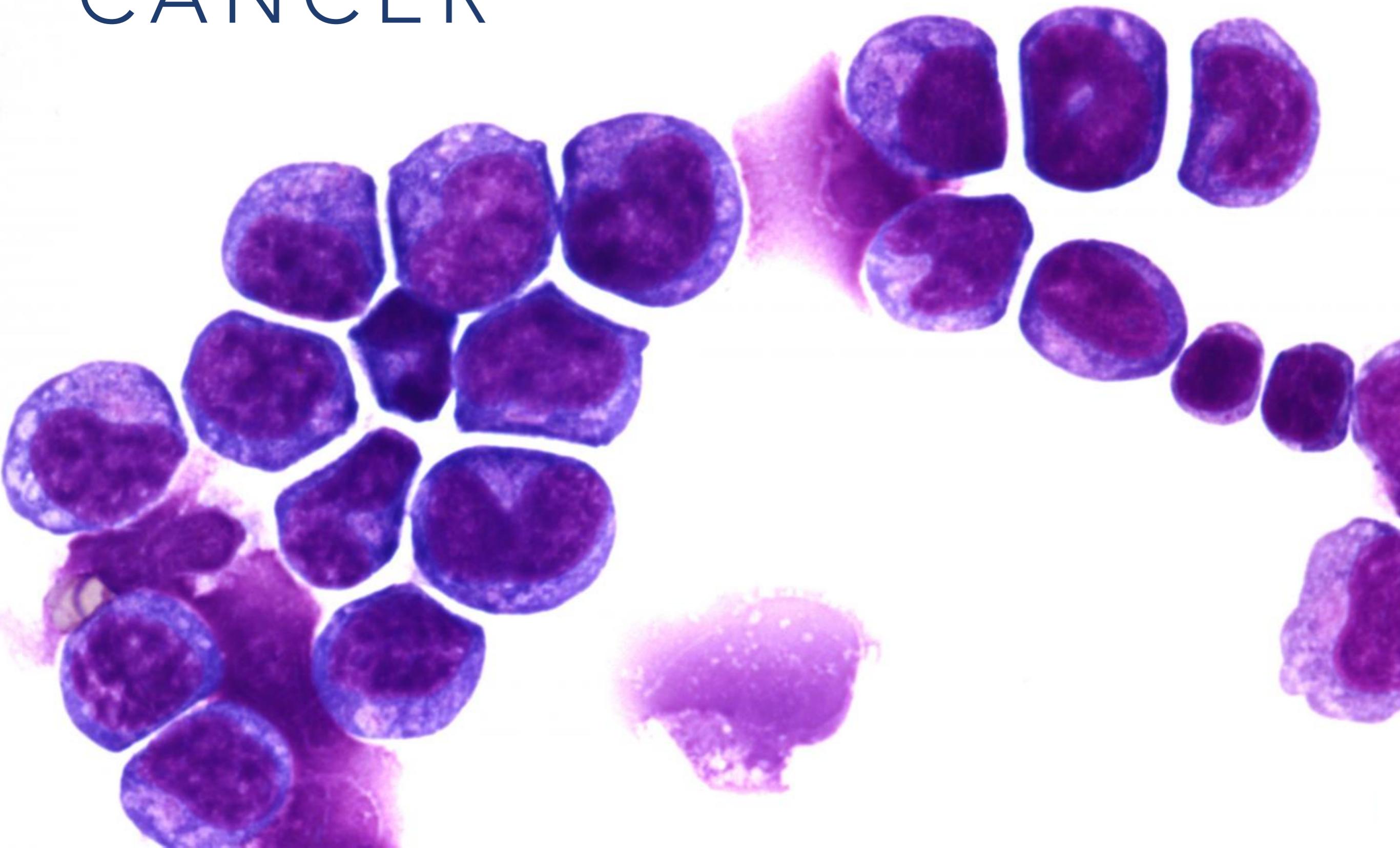
Human genome sequenced in 2003, took 20 years

ACCTACCGCAGAC
AGACCCTAGCGA
TAGCGAGGAAT
CGAGGAAATCGAGC



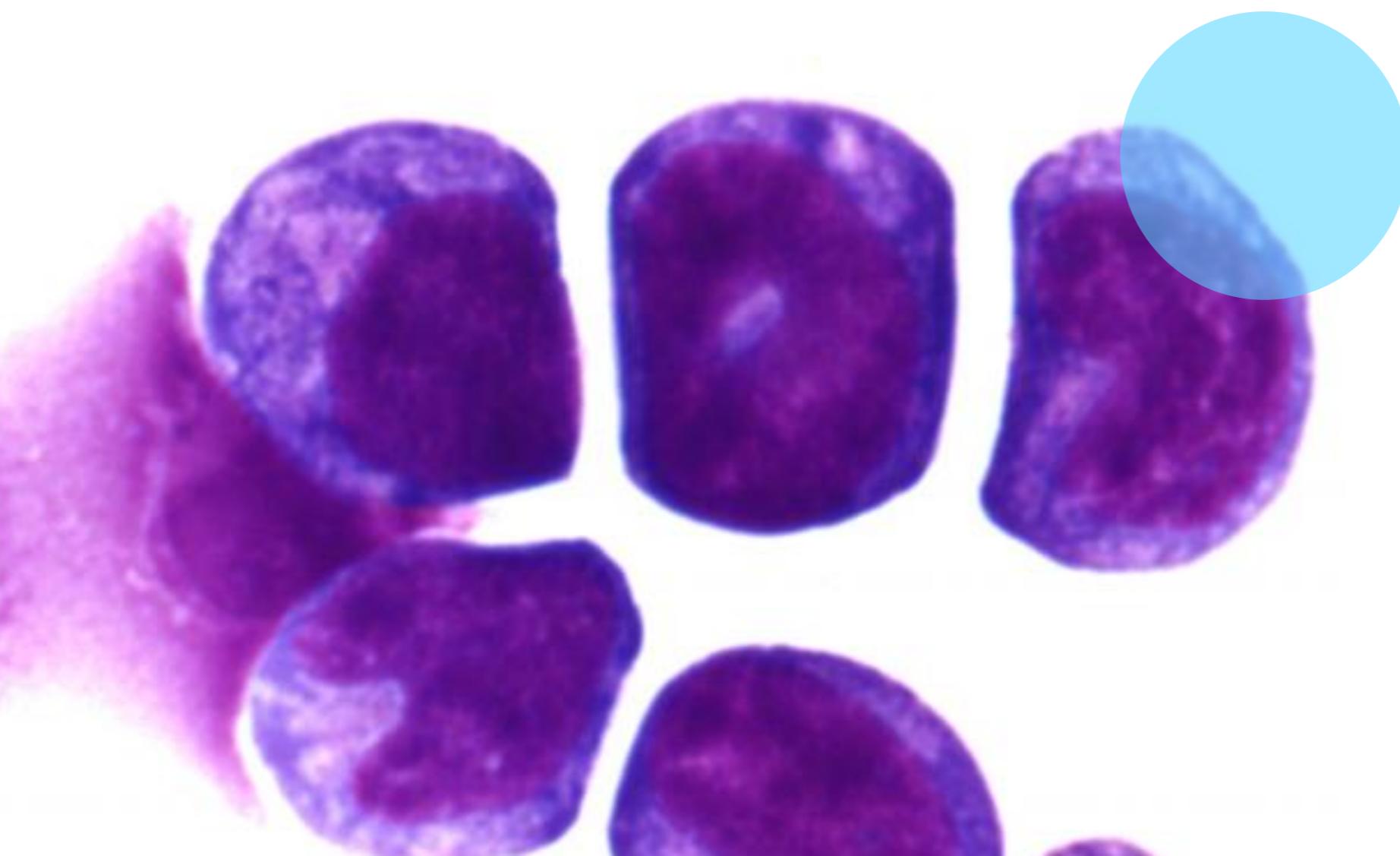
BIOINFORMATICS

CANCER



CANCER

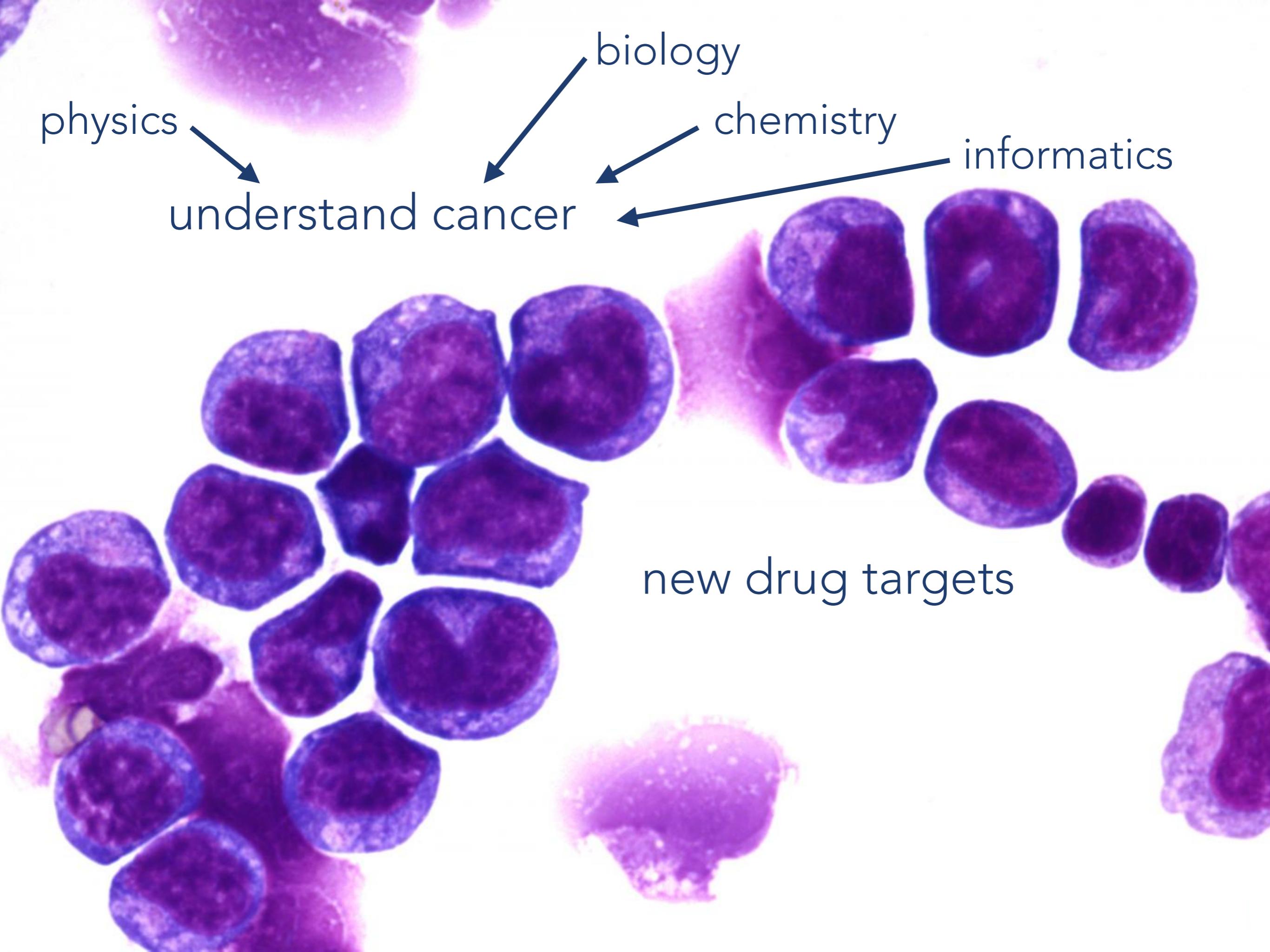
What is so special about these cells?



understand the biology



develop drugs



physics

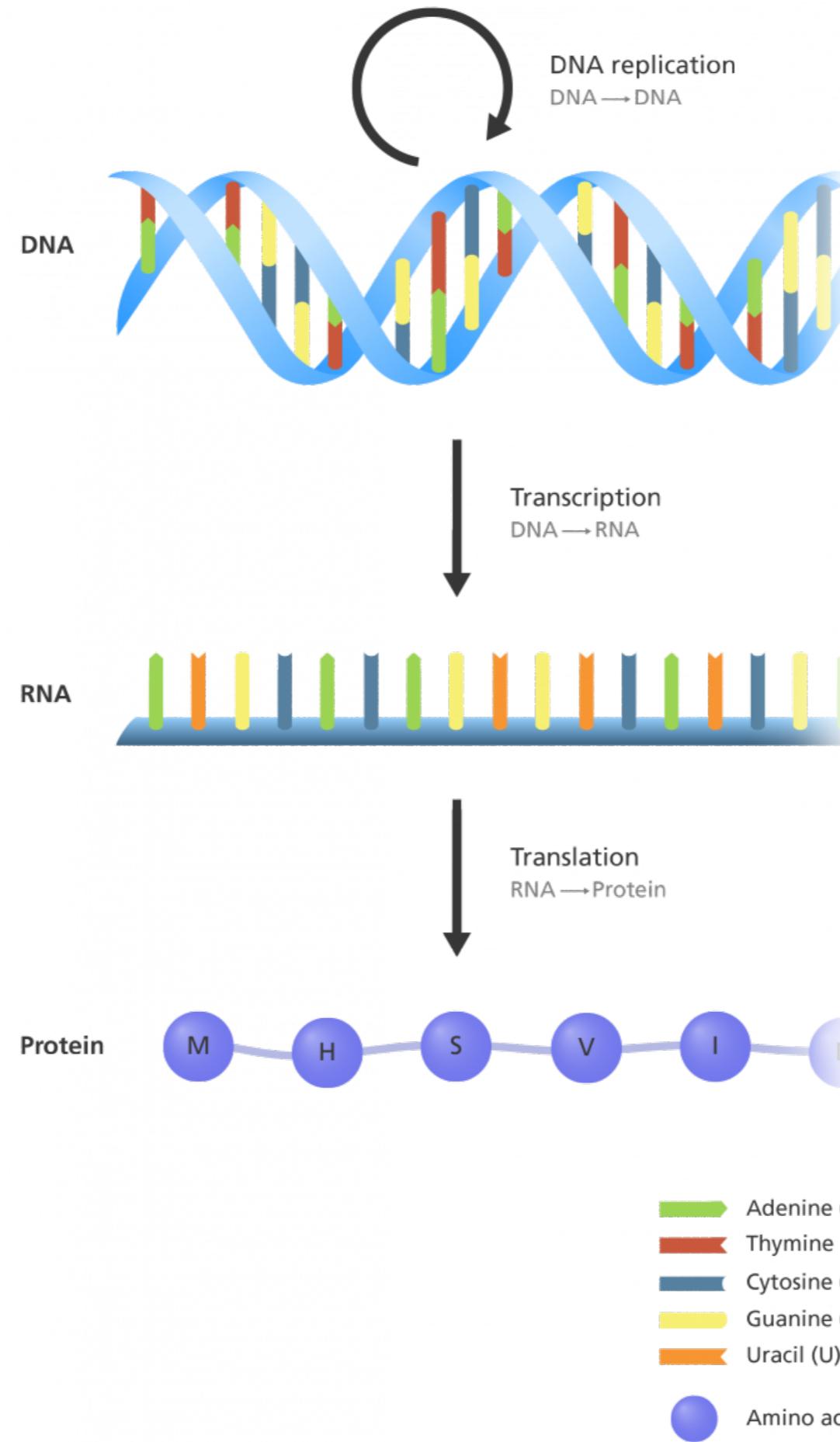
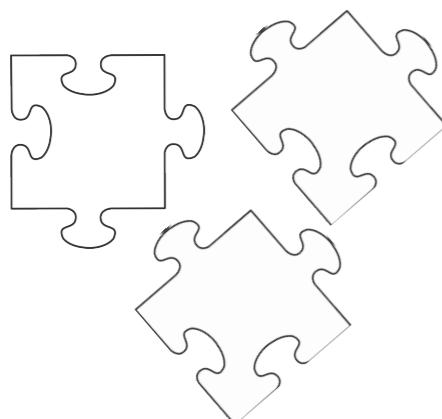
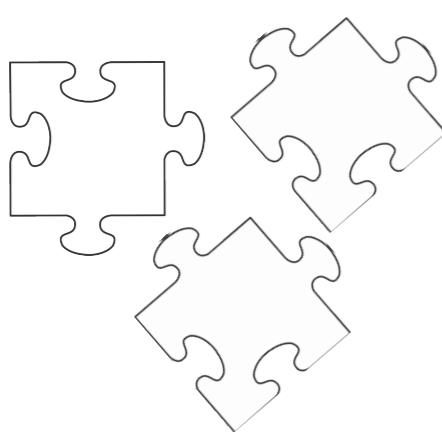
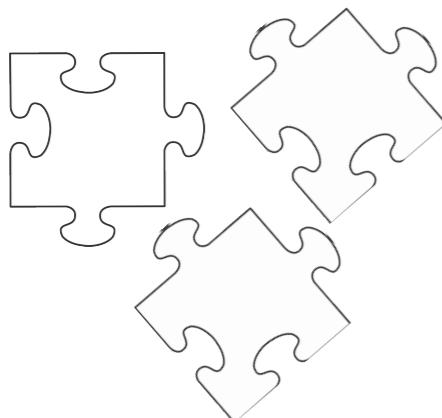
biology

chemistry

informatics

understand cancer

new drug targets



patients

genes

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!