

April 1

3D-Printing

2 photon 3D printing

can be used for microfluidics #LabOnAChip

MICROSCOPES

1 μm = optical 1 nm = electron microscope

light microscopes

goal: develop contrast

1. bright field

light shines through bottom

wavelength determines resolution

2. dark field

blocks all light except on specimen

3. phase contrast

rotating polarized rings

* 4. fluorescent

shine specimen w/ 1 wavelength

filter that out

→ we only see the color fluoresced

electron microscopes

transmission

complicated

• electrons go thru specimen

scanning

• electrons bounce off sample

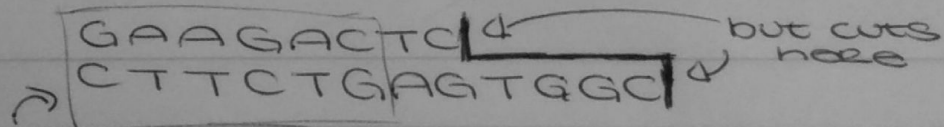
confocal microscopes

atomic force microscopes

Genalious

~~Gateway~~ Golden Gate

BbsI restriction enzyme



recognizes this

this means we can design the overhangs

uses a cassette system

we can swap in & out diff oligomers

digesting & ligating in genalious

→ go to the cloning menu!

then it's self explanatory

(follow the menus)

