

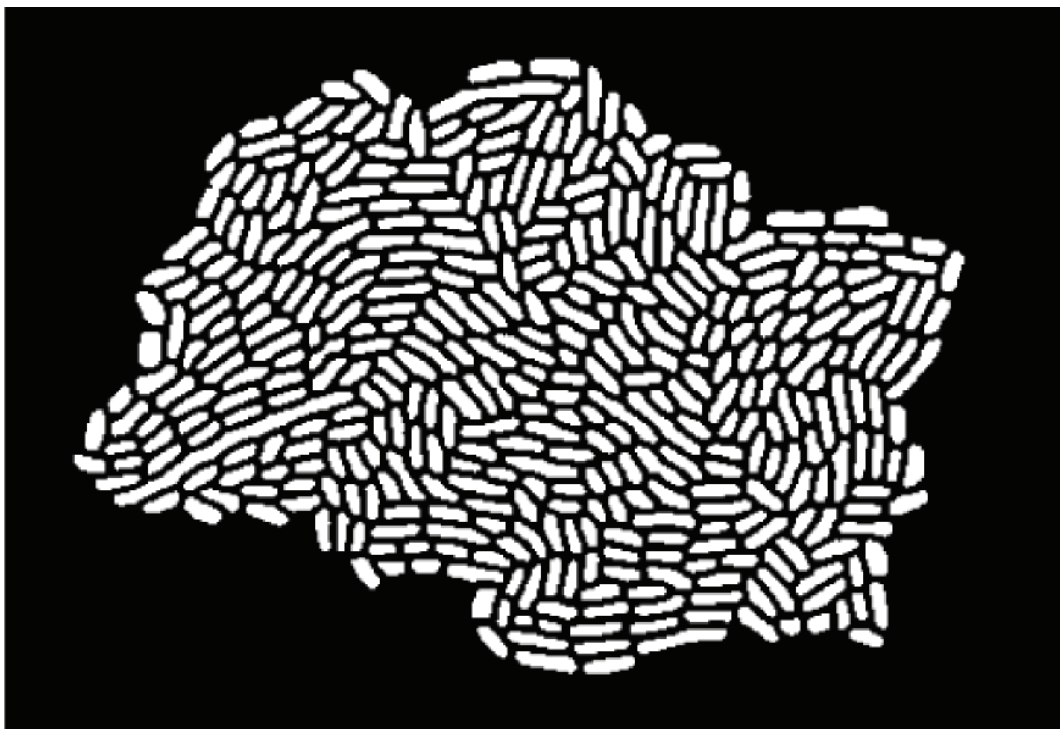
the

DELTA

coloring and activity book

Ground Truth

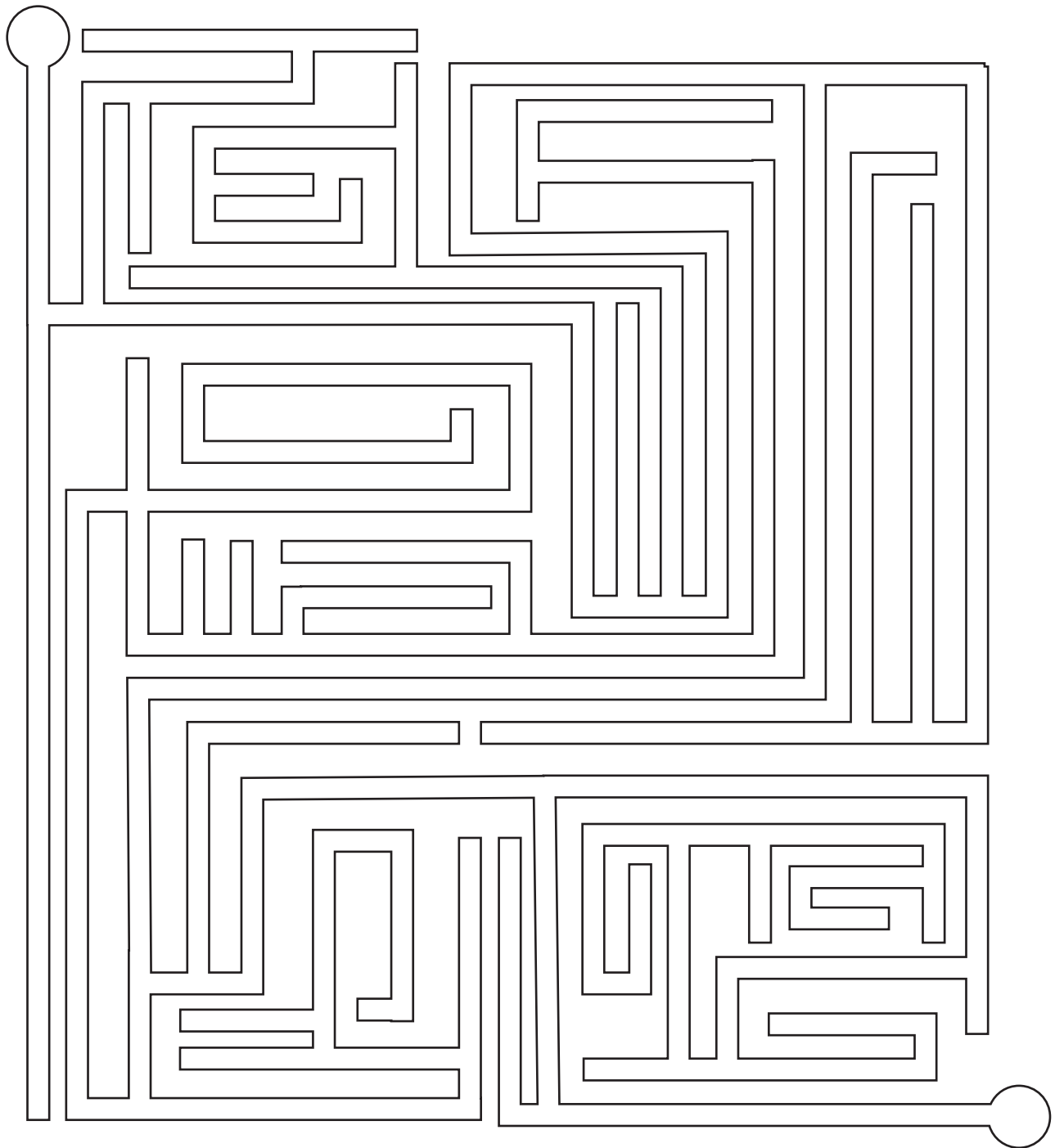
Can you spot 5 differences between the two images?



Microfluidics Maze

Find your way from the inlet to the outlet!

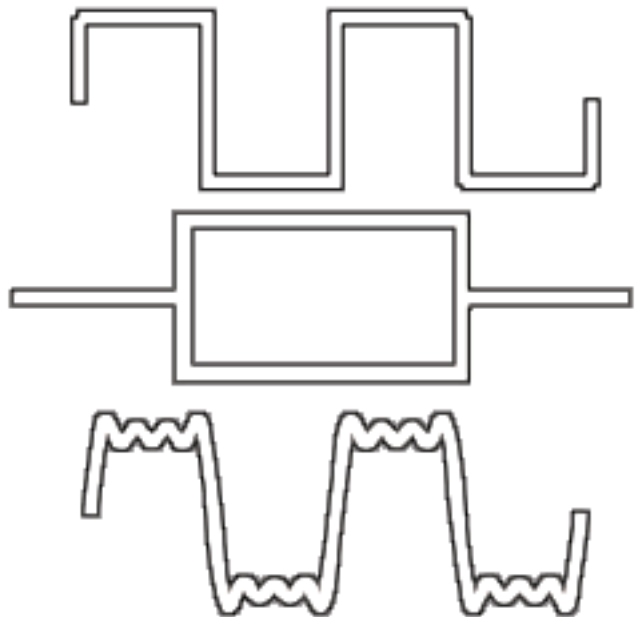
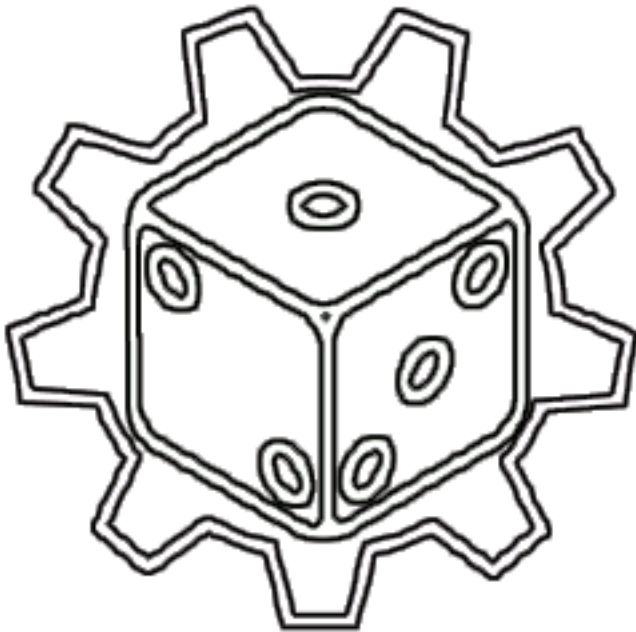
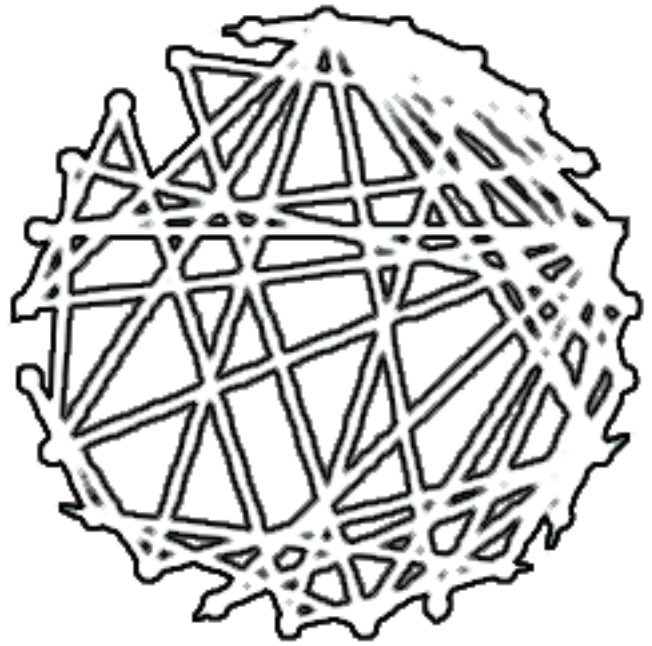
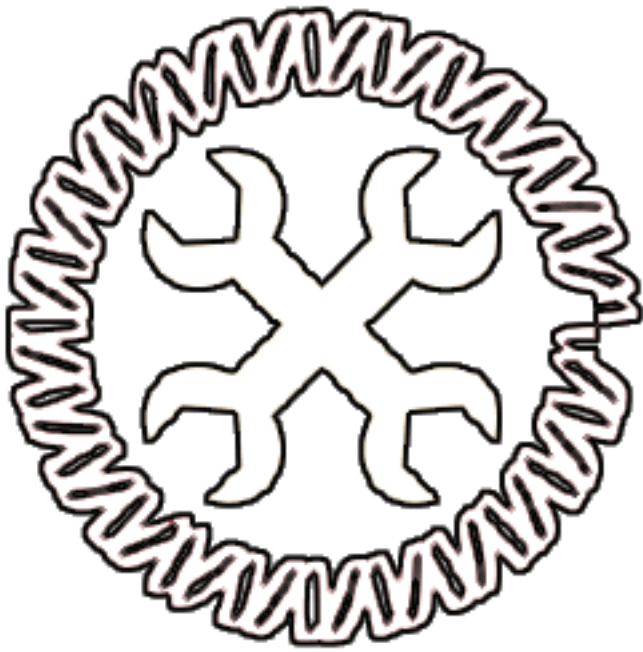
inlet



outlet

Represent!

Color the Dunlop Lab logo:



Segmentation

Can you match each cell to its DeLTA output?



Family Portrait

Color the segmented cells on the agar pad



Deconvolution

Unscramble the deep learning and synthetic biology related terms!

inboceoymo

riateuhcetr

eadtrghu lelc

saCRc

mladpsi

ecopnrpetr

goepstnotic

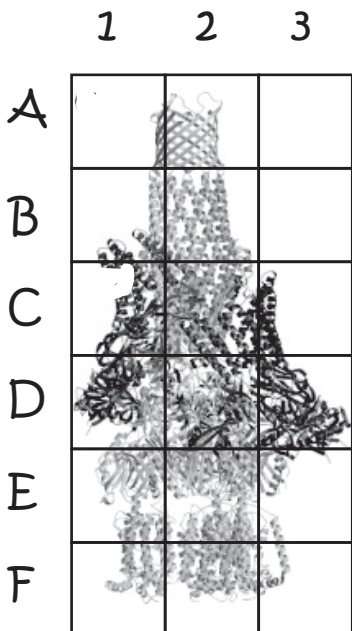
icrntreeofmne

sols onuthfci

thCatibiio ceasnrise

Upsampling

Use the grid to draw your own TolC efflux pump!

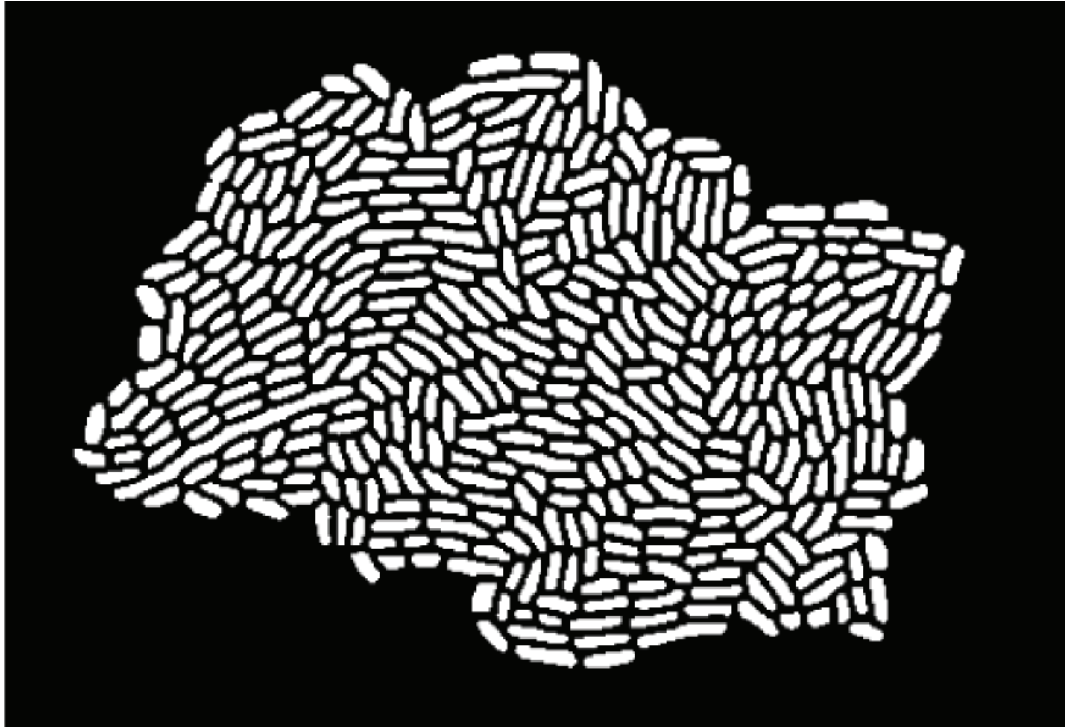


	1	2	3
A			
B			
C			
D			
E			
F			

Validation Set
(solutions)

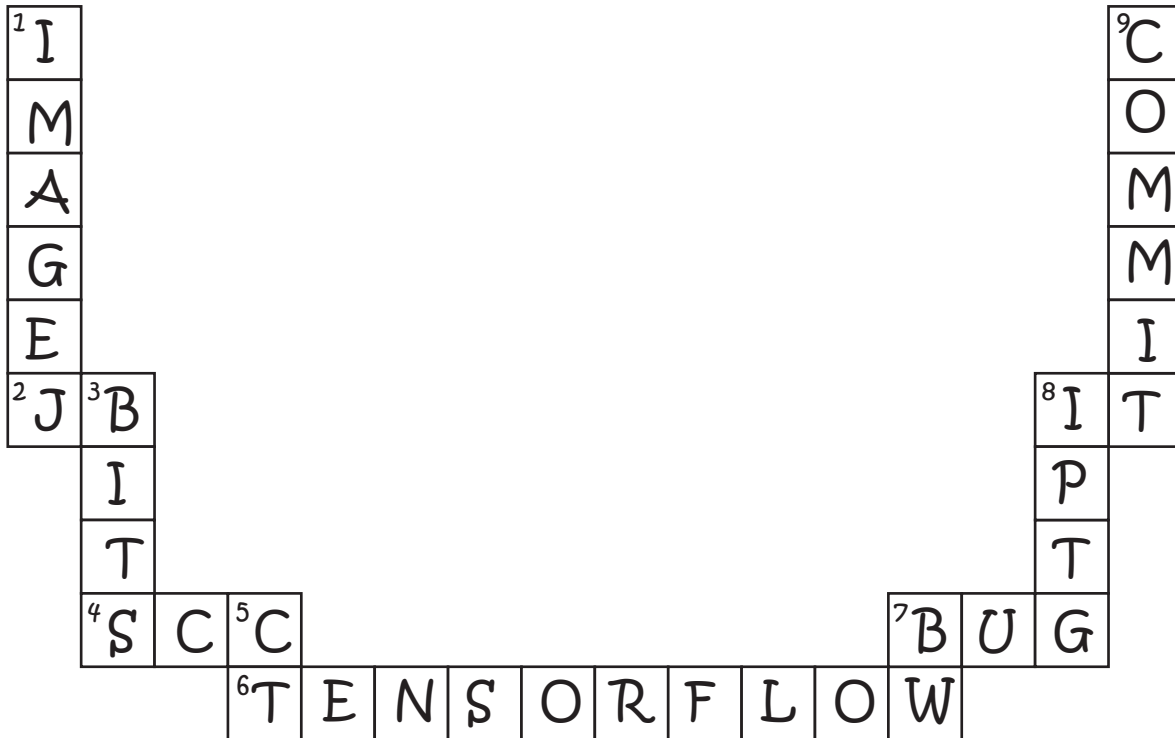
Ground Truth (solution)

Can you spot 5 differences between the two images?



U-Net Crossword

Fill in the boxes based on the clues!



Across

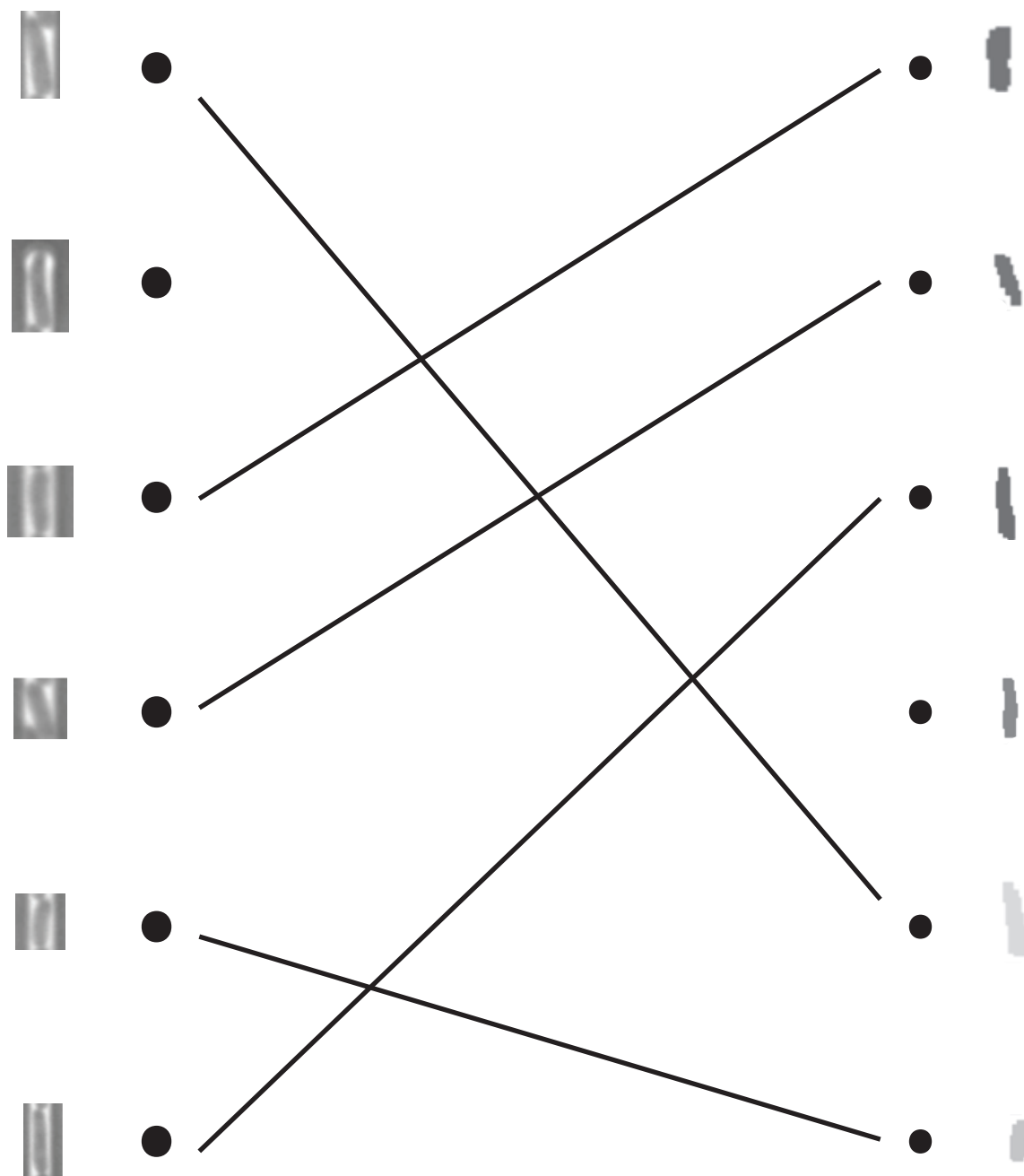
2. Author of the original DeLTA paper.
4. DeLTA will run faster if you run it through here!
7. You don't want to find one of these in your code.
6. A helpful Python library for machine learning.
8. Call them at work if your computer crashes.

Down

1. A Java-based image processing program
3. 8 of them make up a byte.
5. A type of medical scan that a U-net might help you analyze.
7. An alternative to MG1655.
8. A common inducer.
9. Don't forget to do this after your GITlab edits are complete.

Segmentation

Can you match each cell to its DeLTA output?



Deconvolution (solutions)

Unscramble the deep learning and synthetic biology related terms!

inboceoymo

bioeconomy

riateuhcetr

architecture

eadtrghu lelc

daughter cell

᠑aCRc

CcaSR

mladpsi

plasmid

ecopnrpetr

perceptron

goepstnotic

optogenetics

icrntreeofmne

reinforcement

sols onuthfci

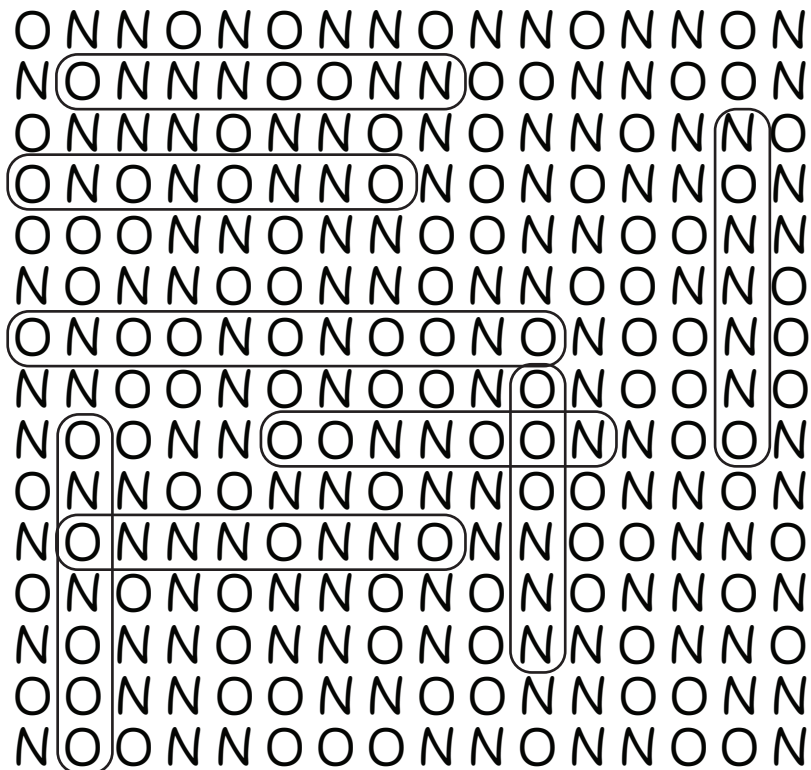
loss function

tnCatibio ceasnrtise

antibiotic resistance

O NO. O NO. O NO NO NO NO NO.

Find the daughters with the listed combinations of old and new poles!



Word bank:

OOONNNN

ONNNOONN

ONONOOO

ONOONONOONO

ONONONNO

NONNNNO

OONNOON

ONNNONNO