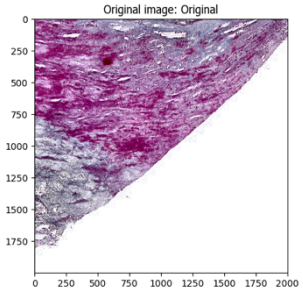
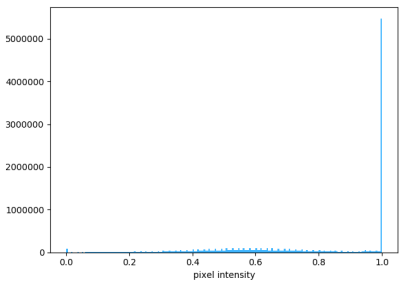
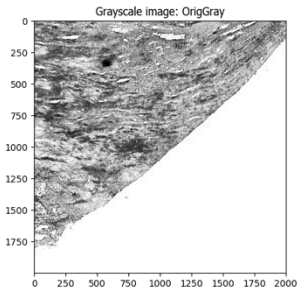
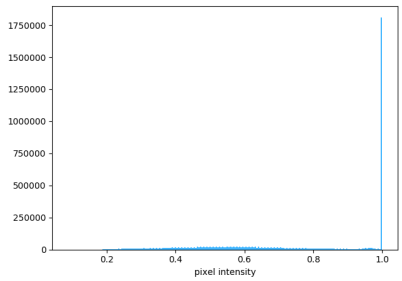
A.



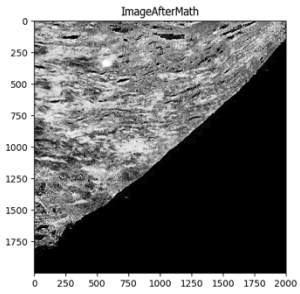


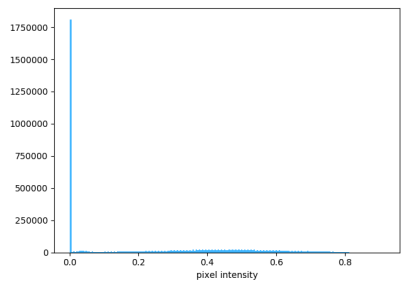
B.





C.





The FIBRIN `CellProfiler` pipeline workflow.

[A]. The original image (left) is masked using `PathProfiler Tissue Segmentation Unet` and used as input by `CellProfiler 4.2.6`; the graph (right) shows the tonal distribution in the digital whole-slide image on a RGB scale.

[B]. The input image is converted to a gray scaled image (left); the graph (right) shows the tonal distribution in the gray scaled image.

{C]. The gray scaled image is inverted, *i.e.* non-tissue will become black (left); the graph (right) shows the tonal distribution after inverting.

[D]. The tissue area is identified, as demarcated by the green line in the left image; the total tissue area size is calculated in pixels (right image) and tabulated (table).

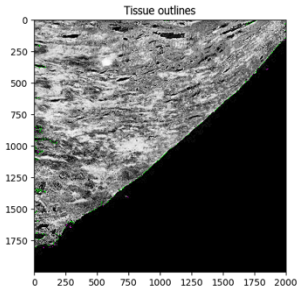
[E]. The colors, *i.e.* stains, are unmixed using the original image (left) and FIBRIN (right). The graph (right) shows the tonal distribution of the FIBRIN image.

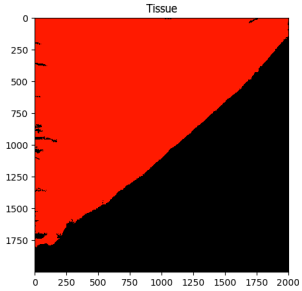
[F]. The FIBIRN-positive objects are demarcated by a green line in the left image, areas that are excluded due to size (minimal size 1 pixels) are demarcated in magenta; the right image shows all the identified FIBRIN-positive objects in random colors; the total number of identified objects is calculated and tabulated (table).

[G]. Finally, the data for each tile are saved in a comma-separated table, including meta-data such as tile positions, image location, object counts (there could be multiple patches of stained areas or tissue). The original image (top-left) is used to outline the FIBRIN-positive objects (top-right). The tissue area (red), and FIBRIN-positive objects (green) are all demarcated. The table (bottom-right) shows the areas occupied by each object class.

Sample used: AE11.T02-7271.FIBRIN.TIF [Tile= X6000, Y40000]

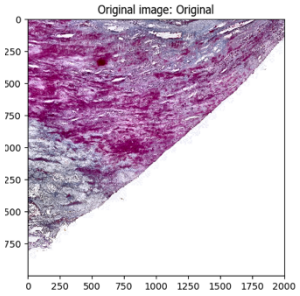
D.

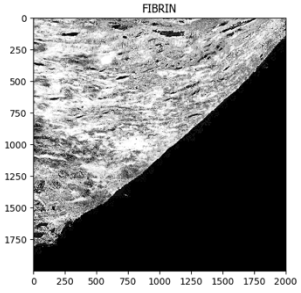


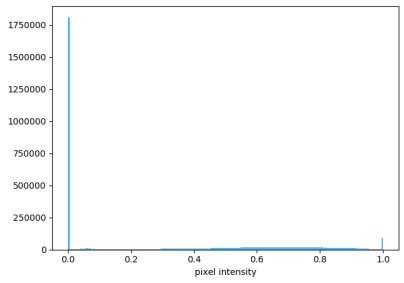


# of accepted objects	1
10th pctile diameter	1642.0 pixels
Median diameter	1642.0 pixels
90th pctile diameter	1642.0 pixels
Area covered by objects	52.9 %
Thresholding filter size	1.0
Threshold	0.165
Declumping smoothing filter size	26.9
Maxima suppression size	7.0

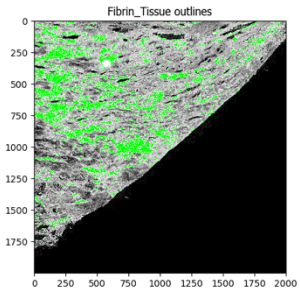
E.

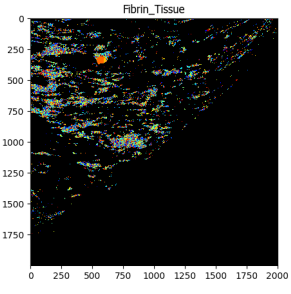






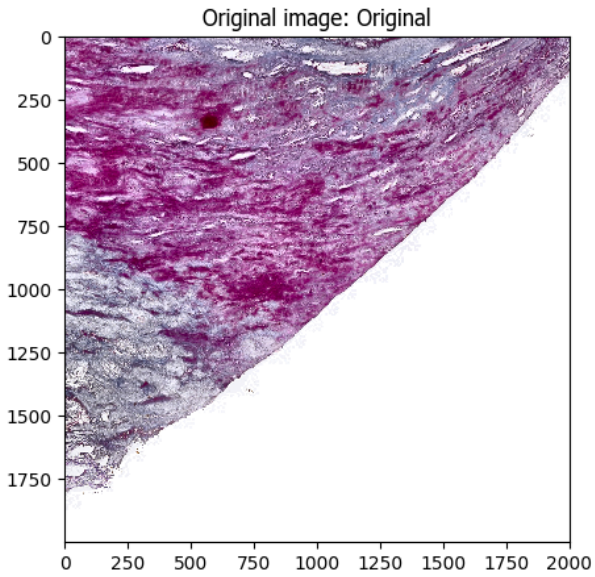
F.

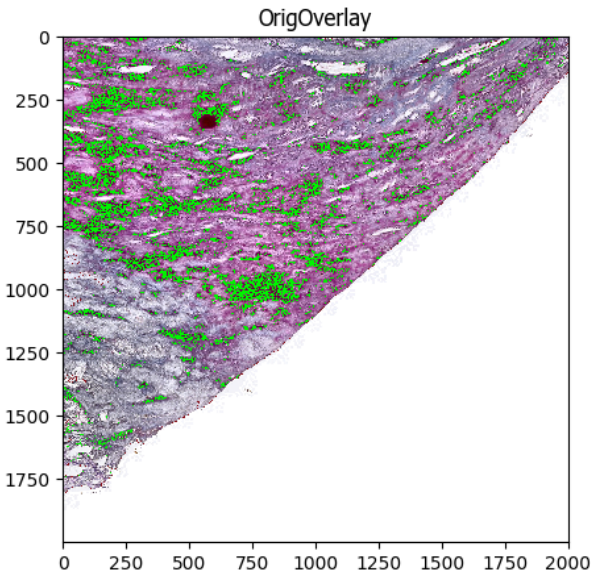




# of accepted objects	23141
10th pctile diameter	1.6 pixels
Median diameter	3.7 pixels
90th pctile diameter	6.6 pixels
Area covered by objects	8.9 %
Thresholding filter size	1.0
Threshold	0.84
Declumping smoothing filter size	0.7
Maxima suppression size	0.7

G.





Objects or Image	Area Occupied	Perimeter	Total Area
Tissue	2117444	10908.0	4000000
Fibrin_Tissue	356536	248941.0	4000000