

Supplementary Table 1

The list of features used in the random trees-based classification.

	Smoothed: 25 μm : Nucleus: Area	Smoothed: 50 μm : Nucleus: Area
Nucleus: Area	Smoothed: 25 μm : Nucleus: Perimeter	Smoothed: 50 μm : Nucleus: Perimeter
Nucleus: Perimeter	Smoothed: 25 μm : Nucleus: Circularity	Smoothed: 50 μm : Nucleus: Circularity
Nucleus: Circularity	Smoothed: 25 μm : Nucleus: Max caliper	Smoothed: 50 μm : Nucleus: Max caliper
Nucleus: Max caliper	Smoothed: 25 μm : Nucleus: Min caliper	Smoothed: 50 μm : Nucleus: Min caliper
Nucleus: Min caliper	Smoothed: 25 μm : Nucleus: Eccentricity	Smoothed: 50 μm : Nucleus: Eccentricity
Nucleus: Eccentricity	Smoothed: 25 μm : Nucleus: Hematoxylin OD mean	Smoothed: 50 μm : Nucleus: Hematoxylin OD mean
Nucleus: Hematoxylin OD mean	Smoothed: 25 μm : Nucleus: Hematoxylin OD sum	Smoothed: 50 μm : Nucleus: Hematoxylin OD sum
Nucleus: Hematoxylin OD sum	Smoothed: 25 μm : Nucleus: Hematoxylin OD std dev	Smoothed: 50 μm : Nucleus: Hematoxylin OD std dev
Nucleus: Hematoxylin OD std dev	Smoothed: 25 μm : Nucleus: Hematoxylin OD max	Smoothed: 50 μm : Nucleus: Hematoxylin OD max
Nucleus: Hematoxylin OD max	Smoothed: 25 μm : Nucleus: Hematoxylin OD min	Smoothed: 50 μm : Nucleus: Hematoxylin OD min
Nucleus: Hematoxylin OD min	Smoothed: 25 μm : Nucleus: Hematoxylin OD range	Smoothed: 50 μm : Nucleus: Hematoxylin OD range
Nucleus: Hematoxylin OD range	Smoothed: 25 μm : Nucleus: DAB OD mean	Smoothed: 50 μm : Nucleus: DAB OD mean
Nucleus: DAB OD mean	Smoothed: 25 μm : Nucleus: DAB OD sum	Smoothed: 50 μm : Nucleus: DAB OD sum
Nucleus: DAB OD sum	Smoothed: 25 μm : Nucleus: DAB OD std dev	Smoothed: 50 μm : Nucleus: DAB OD std dev
Nucleus: DAB OD std dev	Smoothed: 25 μm : Nucleus: DAB OD max	Smoothed: 50 μm : Nucleus: DAB OD max
Nucleus: DAB OD max	Smoothed: 25 μm : Nucleus: DAB OD min	Smoothed: 50 μm : Nucleus: DAB OD min
Nucleus: DAB OD min	Smoothed: 25 μm : Nucleus: DAB OD range	Smoothed: 50 μm : Nucleus: DAB OD range
Nucleus: DAB OD range	Smoothed: 25 μm : Cell: Area	Smoothed: 50 μm : Cell: Area
Cell: Area	Smoothed: 25 μm : Cell: Perimeter	Smoothed: 50 μm : Cell: Perimeter
Cell: Perimeter	Smoothed: 25 μm : Cell: Circularity	Smoothed: 50 μm : Cell: Circularity
Cell: Circularity	Smoothed: 25 μm : Cell: Max caliper	Smoothed: 50 μm : Cell: Max caliper
Cell: Max caliper	Smoothed: 25 μm : Cell: Min caliper	Smoothed: 50 μm : Cell: Min caliper
Cell: Min caliper	Smoothed: 25 μm : Cell: Eccentricity	Smoothed: 50 μm : Cell: Eccentricity
Cell: Eccentricity	Smoothed: 25 μm : Cell: DAB OD mean	Smoothed: 50 μm : Cell: DAB OD mean
Cell: DAB OD mean	Smoothed: 25 μm : Cell: DAB OD std dev	Smoothed: 50 μm : Cell: DAB OD std dev
Cell: DAB OD std dev	Smoothed: 25 μm : Cell: DAB OD max	Smoothed: 50 μm : Cell: DAB OD max
Cell: DAB OD max	Smoothed: 25 μm : Cell: DAB OD min	Smoothed: 50 μm : Cell: DAB OD min
Cell: DAB OD min	Smoothed: 25 μm : Cytoplasm: DAB OD mean	Smoothed: 50 μm : Cytoplasm: DAB OD mean
Cytoplasm: DAB OD mean	Smoothed: 25 μm : Cytoplasm: DAB OD std dev	Smoothed: 50 μm : Cytoplasm: DAB OD std dev
Cytoplasm: DAB OD std dev	Smoothed: 25 μm : Cytoplasm: DAB OD max	Smoothed: 50 μm : Cytoplasm: DAB OD max
Cytoplasm: DAB OD max	Smoothed: 25 μm : Cytoplasm: DAB OD min	Smoothed: 50 μm : Cytoplasm: DAB OD min
Cytoplasm: DAB OD min	Smoothed: 25 μm : Nucleus/Cell area ratio	Smoothed: 50 μm : Nucleus/Cell area ratio
Nucleus/Cell area ratio	Smoothed: 25 μm : Nearby detection counts	Smoothed: 50 μm : Nearby detection counts