Supplementary Table 1. Basic morphological parameters measured per single cells.

Number	Parameter type	Name	
1	- Shape descriptors		Total pixels in the
		Area	recognized cell
			region.
2		Compactness	(Perimeter)^2/Area
3		Inner radius	Radius of inscribed
			circle from the
			centroid of cell area.
4		Length width ratio	Length/Width
5		Perimeter	The arc length of
			recognized cell
			region.
6		Shape factor	4π(Area)/(Perimeter)^ 2
7	Texture descriptors	Correlation	Gray-Level Co- occurrence Matrix (GLCM) of cell region. GLCM = M Correlation
			$= \sum_{i,j} \frac{(i - \mu_x)(j - \mu_y)M_i}{\sigma_x \sigma_y}$ $\mu_x = \sum_i jM_{i,j}$
8			$\mu_{x} = \sum_{i,j} j M_{i,j}$ $\mu_{y} = \sum_{i,j} i M_{i,j}$ Gray-Level Co-
		Energy	occurrence Matrix (GLCM) of cell region. GLCM = M Energy = $\sum_{i,j} M_{i,j}^2$
9		Entropy	Gray-Level Co- occurrence Matrix (GLCM) of cell region. GLCM = M Entropy $= -\sum_{i,j} M_{ij} \log M_{i,j}$
10		Inertia	Gray-Level Co- occurrence Matrix (GLCM) of cell region.

		$\begin{aligned} \text{GLCM} &= M \\ \text{Inertia} &= \sum_{i,j} (i \\ &- j)^2 M_{ij} \end{aligned}$
11	Homogony	Gray-Level Co- occurrence Matrix (GLCM) of cell region. GLCM = M Homogony
		$=\sum_{i,j}\frac{M_{i,j}}{1+ i-j }$
12	Intensity SD	Standard deviation of intensities of pixels in cell region.