**Table S3. List of Features extracted per cell and related to each mitochondrion.**

|  |
| --- |
| Means\_M\_per\_C\_Zernike\_0\_0 |
| Means\_M\_per\_C\_Zernike\_1\_1 |
| Means\_M\_per\_C\_Zernike\_2\_0 |
| Means\_M\_per\_C\_Zernike\_2\_2 |
| Means\_M\_per\_C\_Zernike\_3\_1 |
| Means\_M\_per\_C\_Zernike\_3\_3 |
| Means\_M\_per\_C\_Zernike\_4\_0 |
| Means\_M\_per\_C\_Zernike\_4\_2 |
| Means\_M\_per\_C\_Zernike\_4\_4 |
| Means\_M\_per\_C\_Zernike\_5\_1 |
| Means\_M\_per\_C\_Zernike\_5\_3 |
| Means\_M\_per\_C\_Zernike\_5\_5 |
| Means\_M\_per\_C\_Zernike\_6\_0 |
| Means\_M\_per\_C\_Zernike\_6\_2 |
| Means\_M\_per\_C\_Zernike\_6\_4 |
| Means\_M\_per\_C\_Zernike\_6\_6 |
| Means\_M\_per\_C\_Zernike\_7\_1 |
| Means\_M\_per\_C\_Zernike\_7\_3 |
| Means\_M\_per\_C\_Zernike\_7\_5 |
| Means\_M\_per\_C\_Zernike\_7\_7 |
| Means\_M\_per\_C\_Zernike\_8\_0 |
| Means\_M\_per\_C\_Zernike\_8\_2 |
| Means\_M\_per\_C\_Zernike\_8\_4 |
| Means\_M\_per\_C\_Zernike\_8\_6 |
| Means\_M\_per\_C\_Zernike\_8\_8 |
| Means\_M\_per\_C\_Zernike\_9\_1 |
| Means\_M\_per\_C\_Zernike\_9\_3 |
| Means\_M\_per\_C\_Zernike\_9\_5 |
| Means\_M\_per\_C\_Zernike\_9\_7 |
| Means\_M\_per\_C\_Zernike\_9\_9 |
| Means\_M\_per\_C\_Neighbors\_NumberOfNeighbors\_15 |
| Means\_M\_per\_C\_Neighbors\_PercentTouching\_15 |
| Means\_M\_per\_C\_Neighbors\_FirstClosestObjectNu\_15 |
| Means\_M\_per\_C\_Neighbors\_FirstClosestXVector\_15 |
| Means\_M\_per\_C\_Neighbors\_FirstClosestYVector\_15 |
| Means\_M\_per\_C\_Neighbors\_SecondClosestObjectN\_15 |
| Means\_M\_per\_C\_Neighbors\_SecondClosestXVector\_15 |
| Means\_M\_per\_C\_Neighbors\_SecondClosestYVector\_15 |
| Means\_M\_per\_C\_Neighbors\_AngleBetweenNeighbor\_15 |
| Means\_M\_per\_C\_Parent\_C |
| Means\_M\_per\_C\_Distance\_C |

M- Mitochondria. C- Cell.