

| feature name                        | transfo' | feature name                         | transfo'  | feature name                                | transfo'  | feature name                            | transformation      |
|-------------------------------------|----------|--------------------------------------|-----------|---------------------------------------------|-----------|-----------------------------------------|---------------------|
| Cel_Shape_Eccentricity              | x        | Nuc_Txtr_Entropy_Nuc_3_00_256        | x         | Cyt_Int_IntegrIntEdge_CGAn                  | log2(x+1) | Nuc_Shape_MinFeretDiameter              | log2(x+1)           |
| Cel_Shape_Extent                    | x        | Nuc_Txtr_Entropy_Nuc_3_01_256        | x         | Cyt_Int_IntegrIntEdge_EndoRet               | log2(x+1) | Nuc_Shape_MinorAxisLength               | log2(x+1)           |
| Cel_Shape_Solidity                  | x        | Nuc_Txtr_Entropy_Nuc_3_02_256        | x         | Cyt_Int_IntegrIntEdge_Mito                  | log2(x+1) | Cyt_Txtr_SumAvg_CGAn_3_00_256           | log2(x+1)           |
| Cel_Shape_Zernike_0_0               | x        | Nuc_Txtr_Entropy_Nuc_3_03_256        | x         | Cyt_Int_IntegratedInt_CGAn                  | log2(x+1) | Cyt_Txtr_SumAvg_CGAn_3_01_256           | log2(x+1)           |
| Cel_Shape_Zernike_1_1               | x        | Nuc_Txtr_Corr_Nuc_3_00_256           | x         | Cyt_Int_IntegratedInt_EndoRet               | log2(x+1) | Cyt_Txtr_SumAvg_CGAn_3_02_256           | log2(x+1)           |
| Cel_Shape_Zernike_2_0               | x        | Nuc_Txtr_Corr_Nuc_3_01_256           | x         | Cyt_Int_IntegratedInt_Mito                  | log2(x+1) | Cyt_Txtr_SumAvg_CGAn_3_03_256           | log2(x+1)           |
| Cel_Shape_Zernike_2_2               | x        | Nuc_Txtr_Corr_Nuc_3_02_256           | x         | Cyt_Int_LowerQInt_CGAn                      | log2(x+1) | Cyt_Txtr_SumAvg_EndoRet_3_00_256        | log2(x+1)           |
| Cel_Shape_Zernike_3_1               | x        | Nuc_Txtr_Corr_Nuc_3_03_256           | x         | Cyt_Int_LowerQInt_EndoRet                   | log2(x+1) | Cyt_Txtr_SumAvg_EndoRet_3_01_256        | log2(x+1)           |
| Cel_Shape_Zernike_3_3               | x        | Cyt_Txtr_InvDiffMnt_CGAn_3_00_256    | x         | Cyt_Int_LowerQInt_Mito                      | log2(x+1) | Cyt_Txtr_SumAvg_EndoRet_3_02_256        | log2(x+1)           |
| Cel_Shape_Zernike_4_0               | x        | Cyt_Txtr_InvDiffMnt_CGAn_3_01_256    | x         | Cyt_Int_LOWERInt_CGAn                       | log2(x+1) | Cyt_Txtr_SumAvg_EndoRet_3_03_256        | log2(x+1)           |
| Cel_Shape_Zernike_4_2               | x        | Cyt_Txtr_InvDiffMnt_CGAn_3_02_256    | x         | Cyt_Int_MADInt_EndoRet                      | log2(x+1) | Cyt_Txtr_SumAvg_Mito_3_00_256           | log2(x+1)           |
| Cel_Shape_Zernike_4_4               | x        | Cyt_Txtr_InvDiffMnt_CGAn_3_03_256    | x         | Cyt_Int_MADInt_Mito                         | log2(x+1) | Cyt_Txtr_SumAvg_Mito_3_01_256           | log2(x+1)           |
| Cel_Shape_Zernike_5_1               | x        | Cyt_Txtr_InvDiffMnt_EndoRet_3_00_256 | x         | Cyt_Int_MassDisplacement_CGAn               | log2(x+1) | Cyt_Txtr_SumAvg_Mito_3_02_256           | log2(x+1)           |
| Cel_Shape_Zernike_5_3               | x        | Cyt_Txtr_InvDiffMnt_EndoRet_3_01_256 | x         | Cyt_Int_MassDisplacement_EndoRet            | log2(x+1) | Cyt_Txtr_SumAvg_Mito_3_03_256           | log2(x+1)           |
| Cel_Shape_Zernike_5_5               | x        | Cyt_Txtr_InvDiffMnt_EndoRet_3_02_256 | x         | Cyt_Int_MassDisplacement_Mito               | log2(x+1) | Nuc_Txtr_SumAvg_Nuc_3_00_256            | log2(x+1)           |
| Cel_Shape_Zernike_6_0               | x        | Cyt_Txtr_InvDiffMnt_EndoRet_3_03_256 | x         | Cyt_Int_MaxIntEdge_CGAn                     | log2(x+1) | Nuc_Txtr_SumAvg_Nuc_3_01_256            | log2(x+1)           |
| Cel_Shape_Zernike_6_2               | x        | Cyt_Txtr_InvDiffMnt_Mito_3_00_256    | x         | Cyt_Int_MaxIntEdge_EndoRet                  | log2(x+1) | Nuc_Txtr_SumAvg_Nuc_3_02_256            | log2(x+1)           |
| Cel_Shape_Zernike_6_4               | x        | Cyt_Txtr_InvDiffMnt_Mito_3_01_256    | x         | Cyt_Int_MaxIntEdge_Mito                     | log2(x+1) | Nuc_Txtr_SumAvg_Nuc_3_03_256            | log2(x+1)           |
| Cel_Shape_Zernike_6_6               | x        | Cyt_Txtr_InvDiffMnt_Mito_3_02_256    | x         | Cyt_Int_MaxInt_CGAn                         | log2(x+1) | Cel_Neighbors_SchroClosestDist_Adjacent | log2(x+1)           |
| Cel_Shape_Zernike_7_1               | x        | Cyt_Txtr_InvDiffMnt_Mito_3_03_256    | x         | Cyt_Int_MaxInt_EndoRet                      | log2(x+1) | Cel_Neighbors_SchroClosestDist_Adjacent | log2(x+1)           |
| Cel_Shape_Zernike_7_3               | x        | Nuc_Txtr_InvDiffMnt_Nuc_3_00_256     | x         | Cyt_Int_MaxInt_Mito                         | log2(x+1) | Cel_Shape_EulerNumber                   | 2[log2(max(x)+x+1)] |
| Cel_Shape_Zernike_7_5               | x        | Nuc_Txtr_InvDiffMnt_Nuc_3_01_256     | x         | Cyt_Int_MeanIntEdge_CGAn                    | log2(x+1) | Cel_Neighbors_AngleBtNgbors_Adjacent    | 2[log2(max(x)+x+1)] |
| Cel_Shape_Zernike_7_7               | x        | Nuc_Txtr_InvDiffMnt_Nuc_3_02_256     | x         | Cyt_Int_MeanIntEdge_EndoRet                 | log2(x+1) | Cyt_Txtr_Contrast_CGAn_3_00_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_8_0               | x        | Nuc_Txtr_InvDiffMnt_Nuc_3_03_256     | x         | Cyt_Int_MeanIntEdge_Mito                    | log2(x+1) | Cyt_Txtr_Contrast_CGAn_3_01_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_8_2               | x        | Nuc_Shape_Eccentricity               | x         | Cyt_Int_MeanInt_CGAn                        | log2(x+1) | Cyt_Txtr_Contrast_CGAn_3_02_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_8_4               | x        | Nuc_Shape_Extent                     | x         | Cyt_Int_MeanInt_EndoRet                     | log2(x+1) | Cyt_Txtr_Contrast_CGAn_3_03_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_8_6               | x        | Nuc_Shape_Solidity                   | x         | Cyt_Int_MeanInt_Mito                        | log2(x+1) | Cyt_Txtr_Contrast_EndoRet_3_00_256      | log2(x+0.01)        |
| Cel_Shape_Zernike_8_8               | x        | Cyt_Txtr_SumEntropy_CGAn_3_00_256    | x         | Cyt_Int_MeanInt_CGAn                        | log2(x+1) | Cyt_Txtr_Contrast_EndoRet_3_01_256      | log2(x+0.01)        |
| Cel_Shape_Zernike_9_1               | x        | Cyt_Txtr_SumEntropy_CGAn_3_01_256    | x         | Cyt_Int_MeanInt_EndoRet                     | log2(x+1) | Cyt_Txtr_Contrast_EndoRet_3_02_256      | log2(x+0.01)        |
| Cel_Shape_Zernike_9_3               | x        | Cyt_Txtr_SumEntropy_CGAn_3_02_256    | x         | Cyt_Int_MeanInt_Mito                        | log2(x+1) | Cyt_Txtr_Contrast_EndoRet_3_03_256      | log2(x+0.01)        |
| Cel_Shape_Zernike_9_5               | x        | Cyt_Txtr_SumEntropy_CGAn_3_03_256    | x         | Cyt_Int_MinIntEdge_CGAn                     | log2(x+1) | Cyt_Txtr_Contrast_Mito_3_00_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_9_7               | x        | Cyt_Txtr_SumEntropy_EndoRet_3_00_256 | x         | Cyt_Int_MinIntEdge_EndoRet                  | log2(x+1) | Cyt_Txtr_Contrast_Mito_3_01_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_9_9               | x        | Cyt_Txtr_SumEntropy_EndoRet_3_01_256 | x         | Cyt_Int_MinIntEdge_Mito                     | log2(x+1) | Cyt_Txtr_Contrast_Mito_3_02_256         | log2(x+0.01)        |
| Cel_Shape_Zernike_10_0              | x        | Cyt_Txtr_SumEntropy_EndoRet_3_02_256 | x         | Cyt_Int_MinInt_CGAn                         | log2(x+1) | Cyt_Txtr_Contrast_Mito_3_03_256         | log2(x+0.01)        |
| Nuc_Shape_Zernike_1_1               | x        | Cyt_Txtr_SumEntropy_EndoRet_3_03_256 | x         | Cyt_Int_MinInt_EndoRet                      | log2(x+1) | Nuc_Txtr_Contrast_Nuc_3_00_256          | log2(x+0.01)        |
| Nuc_Shape_Zernike_2_0               | x        | Cyt_Txtr_SumEntropy_Mito_3_00_256    | x         | Cyt_Int_MinInt_Mito                         | log2(x+1) | Nuc_Txtr_Contrast_Nuc_3_01_256          | log2(x+0.01)        |
| Nuc_Shape_Zernike_2_2               | x        | Cyt_Txtr_SumEntropy_Mito_3_01_256    | x         | Cyt_Int_StdtIntEdge_CGAn                    | log2(x+1) | Nuc_Txtr_Contrast_Nuc_3_02_256          | log2(x+0.01)        |
| Nuc_Shape_Zernike_3_1               | x        | Cyt_Txtr_SumEntropy_Mito_3_02_256    | x         | Cyt_Int_StdtIntEdge_EndoRet                 | log2(x+1) | Nuc_Txtr_Contrast_Nuc_3_03_256          | log2(x+0.01)        |
| Nuc_Shape_Zernike_3_3               | x        | Cyt_Txtr_SumEntropy_Mito_3_03_256    | x         | Cyt_Int_StdtIntEdge_Mito                    | log2(x+1) | Cyt_Txtr_InfoMeas1_CGAn_3_00_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_4_0               | x        | Nuc_Txtr_SumEntropy_Nuc_3_00_256     | x         | Cyt_Int_StdtInt_CGAn                        | log2(x+1) | Cyt_Txtr_InfoMeas1_CGAn_3_01_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_4_2               | x        | Nuc_Txtr_SumEntropy_Nuc_3_01_256     | x         | Cyt_Int_StdtInt_EndoRet                     | log2(x+1) | Cyt_Txtr_InfoMeas1_CGAn_3_02_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_4_4               | x        | Nuc_Txtr_SumEntropy_Nuc_3_02_256     | x         | Cyt_Int_StdtInt_Mito                        | log2(x+1) | Cyt_Txtr_InfoMeas1_CGAn_3_03_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_5_1               | x        | Nuc_Txtr_SumEntropy_Nuc_3_03_256     | x         | Cyt_Int_UpperQInt_CGAn                      | log2(x+1) | Cyt_Txtr_InfoMeas1_EndoRet_3_00_256     | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_5_3               | x        | Cel_Shape_Area                       | log2(x+1) | Cyt_Int_UpperQInt_EndoRet                   | log2(x+1) | Cyt_Txtr_InfoMeas1_EndoRet_3_01_256     | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_5_5               | x        | Cel_Shape_BBoxArea                   | log2(x+1) | Cyt_Int_UpperQInt_Mito                      | log2(x+1) | Cyt_Txtr_InfoMeas1_EndoRet_3_02_256     | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_6_0               | x        | Cel_Shape_Compactness                | log2(x+1) | Nuc_Int_IntegrIntEdge_Nuc                   | log2(x+1) | Cyt_Txtr_InfoMeas1_EndoRet_3_03_256     | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_6_2               | x        | Cel_Shape_ConvexArea                 | log2(x+1) | Nuc_Int_IntegratedInt_Nuc                   | log2(x+1) | Cyt_Txtr_InfoMeas1_Mito_3_00_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_6_4               | x        | Cel_Shape_EquivDiameter              | log2(x+1) | Nuc_Int_IntegratedInt_Mito                  | log2(x+1) | Cyt_Txtr_InfoMeas1_Mito_3_01_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_6_6               | x        | Cel_Shape_FormFactor                 | log2(x+1) | Nuc_Int_IntegratedInt_Mito                  | log2(x+1) | Cyt_Txtr_InfoMeas1_Mito_3_02_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_7_1               | x        | Cel_Shape_MajorAxisLength            | log2(x+1) | Nuc_Int_MassDisplacement_Nuc                | log2(x+1) | Cyt_Txtr_InfoMeas1_Mito_3_03_256        | log2(max(x)+x+0.5)  |
| Nuc_Shape_Zernike_7_3               | x        | Cel_Shape_MaxFerretDiameter          | log2(x+1) | Nuc_Int_MaxIntEdge_Nuc                      | log2(x+1) | Cyt_Txtr_InfoMeas2_CGAn_3_00_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_7_5               | x        | Cel_Shape_MaxRadius                  | log2(x+1) | Nuc_Int_MaxInt_Nuc                          | log2(x+1) | Cyt_Txtr_InfoMeas2_CGAn_3_01_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_7_7               | x        | Cel_Shape_MeanRadius                 | log2(x+1) | Nuc_Int_MeanIntEdge_Nuc                     | log2(x+1) | Cyt_Txtr_InfoMeas2_CGAn_3_02_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_8_0               | x        | Cel_Shape_MedRadius                  | log2(x+1) | Nuc_Int_MeanInt_Mito                        | log2(x+1) | Cyt_Txtr_InfoMeas2_CGAn_3_03_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_8_2               | x        | Cel_Shape_MinFerretDiameter          | log2(x+1) | Nuc_Int_MeanInt_Nuc                         | log2(x+1) | Cyt_Txtr_InfoMeas2_EndoRet_3_00_256     | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_8_4               | x        | Cel_Shape_MinorAxisLength            | log2(x+1) | Nuc_Int_MinIntEdge_Nuc                      | log2(x+1) | Cyt_Txtr_InfoMeas2_EndoRet_3_01_256     | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_8_6               | x        | Cel_Shape_Perimeter                  | log2(x+1) | Nuc_Int_MinInt_Mito                         | log2(x+1) | Cyt_Txtr_InfoMeas2_EndoRet_3_02_256     | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_8_8               | x        | Cel_Int_IntegrIntEdge_CGAn           | log2(x+1) | Nuc_Int_StdtIntEdge_Nuc                     | log2(x+1) | Cyt_Txtr_InfoMeas2_EndoRet_3_03_256     | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_9_1               | x        | Cel_Int_IntegrIntEdge_EndoRet        | log2(x+1) | Nuc_Int_StdtInt_Mito                        | log2(x+1) | Cyt_Txtr_InfoMeas2_Mito_3_00_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_9_3               | x        | Cel_Int_IntegrIntEdge_Mito           | log2(x+1) | Cyt_Int_UpperQInt_Nuc                       | log2(x+1) | Cyt_Txtr_InfoMeas2_Mito_3_01_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_9_5               | x        | Cel_Int_IntegratedInt_CGAn           | log2(x+1) | Cyt_Int_AngularScndMoment_CGAn_3_00_256     | log2(x+1) | Cyt_Txtr_InfoMeas2_Mito_3_02_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_9_7               | x        | Cel_Int_IntegratedInt_EndoRet        | log2(x+1) | Cyt_Txtr_AngularScndMoment_CGAn_3_01_256    | log2(x+1) | Cyt_Txtr_InfoMeas2_Mito_3_03_256        | log2(max(x)+x+0.01) |
| Nuc_Shape_Zernike_9_9               | x        | Cel_Int_IntegratedInt_Mito           | log2(x+1) | Cyt_Txtr_AngularScndMoment_CGAn_3_02_256    | log2(x+1) | Cyt_Txtr_InfoMeas1_Nuc_3_00_256         | log2(max(x)+x+0.5)  |
| Cel_Neighbors_NbNeighbors_Adjacent  | x        | Cel_Int_LowerQInt_CGAn               | log2(x+1) | Cyt_Txtr_AngularScndMoment_CGAn_3_03_256    | log2(x+1) | Cyt_Txtr_InfoMeas1_Nuc_3_01_256         | log2(max(x)+x+0.5)  |
| Cel_Neighbors_PctTouching_Adjacent  | x        | Cel_Int_LowerQInt_EndoRet            | log2(x+1) | Cyt_Txtr_AngularScndMoment_EndoRet_3_00_256 | log2(x+1) | Cyt_Txtr_InfoMeas1_Nuc_3_02_256         | log2(max(x)+x+0.5)  |
| Cyt_Txtr_Corr_CGAn_3_00_256         | x        | Cel_Int_LowerQInt_Mito               | log2(x+1) | Cyt_Txtr_AngularScndMoment_EndoRet_3_01_256 | log2(x+1) | Cyt_Txtr_InfoMeas1_Nuc_3_03_256         | log2(max(x)+x+0.5)  |
| Cyt_Txtr_Corr_CGAn_3_01_256         | x        | Cel_Int_MADInt_CGAn                  | log2(x+1) | Cyt_Txtr_AngularScndMoment_EndoRet_3_02_256 | log2(x+1) | Nuc_Txtr_InfoMeas2_Nuc_3_00_256         | log2(max(x)+x+0.01) |
| Cyt_Txtr_Corr_CGAn_3_02_256         | x        | Cel_Int_MADInt_EndoRet               | log2(x+1) | Cyt_Txtr_AngularScndMoment_EndoRet_3_03_256 | log2(x+1) | Nuc_Txtr_InfoMeas2_Nuc_3_01_256         | log2(max(x)+x+0.01) |
| Cyt_Txtr_Corr_CGAn_3_03_256         | x        | Cel_Int_MADInt_Mito                  | log2(x+1) | Cyt_Txtr_AngularScndMoment_Mito_3_00_256    | log2(x+1) | Nuc_Txtr_InfoMeas2_Nuc_3_02_256         | log2(max(x)+x+0.01) |
| Cyt_Txtr_Corr_EndoRet_3_00_256      | x        | Cel_Int_MassDisplacement_CGAn        | log2(x+1) | Cyt_Txtr_AngularScndMoment_Mito_3_01_256    | log2(x+1) | Nuc_Txtr_InfoMeas2_Nuc_3_03_256         | log2(max(x)+x+0.01) |
| Cyt_Txtr_Corr_EndoRet_3_01_256      | x        | Cel_Int_MassDisplacement_EndoRet     | log2(x+1) | Cyt_Txtr_AngularScndMoment_Mito_3_02_256    | log2(x+1) | Nuc_Txtr_SumVar_CGAn_3_00_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_EndoRet_3_02_256      | x        | Cel_Int_MassDisplacement_Mito        | log2(x+1) | Cyt_Txtr_AngularScndMoment_Mito_3_03_256    | log2(x+1) | Nuc_Txtr_SumVar_CGAn_3_01_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_EndoRet_3_03_256      | x        | Cel_Int_MaxIntEdge_CGAn              | log2(x+1) | Cyt_Txtr_AngularScndMoment_Nuc_3_00_256     | log2(x+1) | Nuc_Txtr_SumVar_CGAn_3_02_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_Mito_3_00_256         | x        | Cel_Int_MaxIntEdge_EndoRet           | log2(x+1) | Cyt_Txtr_AngularScndMoment_Nuc_3_01_256     | log2(x+1) | Nuc_Txtr_SumVar_CGAn_3_03_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_Mito_3_01_256         | x        | Cel_Int_MaxIntEdge_Mito              | log2(x+1) | Cyt_Txtr_AngularScndMoment_Nuc_3_02_256     | log2(x+1) | Cyt_Txtr_SumVar_CGAn_3_00_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_Mito_3_02_256         | x        | Cel_Int_MaxInt_CGAn                  | log2(x+1) | Cyt_Txtr_AngularScndMoment_Nuc_3_03_256     | log2(x+1) | Cyt_Txtr_SumVar_CGAn_3_01_256           | log2(x+0.01)        |
| Cyt_Txtr_Corr_Mito_3_03_256         | x        | Cel_Int_MaxInt_EndoRet               | log2(x+1) | Cyt_Txtr_DiffVar_CGAn_3_00_256              | log2(x+1) | Cyt_Txtr_SumVar_CGAn_3_02_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_01_256    | x        | Cel_Int_MaxInt_Mito                  | log2(x+1) | Cyt_Txtr_DiffVar_CGAn_3_01_256              | log2(x+1) | Cyt_Txtr_SumVar_CGAn_3_03_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_02_256    | x        | Cel_Int_MeanIntEdge_CGAn             | log2(x+1) | Cyt_Txtr_DiffVar_CGAn_3_02_256              | log2(x+1) | Cyt_Txtr_SumVar_EndoRet_3_00_256        | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_03_256    | x        | Cel_Int_MeanIntEdge_EndoRet          | log2(x+1) | Cyt_Txtr_DiffVar_CGAn_3_03_256              | log2(x+1) | Cyt_Txtr_SumVar_EndoRet_3_01_256        | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_00_256    | x        | Cel_Int_MeanIntEdge_Mito             | log2(x+1) | Cyt_Txtr_DiffVar_EndoRet_3_00_256           | log2(x+1) | Cyt_Txtr_SumVar_EndoRet_3_02_256        | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_01_256    | x        | Cel_Int_MeanInt_CGAn                 | log2(x+1) | Cyt_Txtr_DiffVar_EndoRet_3_01_256           | log2(x+1) | Cyt_Txtr_SumVar_EndoRet_3_03_256        | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_02_256    | x        | Cel_Int_MeanInt_EndoRet              | log2(x+1) | Cyt_Txtr_DiffVar_EndoRet_3_02_256           | log2(x+1) | Cyt_Txtr_SumVar_Mito_3_00_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_CGAn_3_03_256    | x        | Cel_Int_MeanInt_Mito                 | log2(x+1) | Cyt_Txtr_DiffVar_EndoRet_3_03_256           | log2(x+1) | Cyt_Txtr_SumVar_Mito_3_01_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_EndoRet_3_01_256 | x        | Cel_Int_MeanInt_CGAn                 | log2(x+1) | Cyt_Txtr_DiffVar_EndoRet_3_00_256           | log2(x+1) | Cyt_Txtr_SumVar_Mito_3_02_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_EndoRet_3_02_256 | x        | Cel_Int_MeanInt_EndoRet              | log2(x+1) | Cyt_Txtr_DiffVar_Mito_3_01_256              | log2(x+1) | Cyt_Txtr_SumVar_Mito_3_03_256           | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_EndoRet_3_03_256 | x        | Cel_Int_MeanInt_Mito                 | log2(x+1) | Cyt_Txtr_DiffVar_Mito_3_02_256              | log2(x+1) | Cyt_Txtr_Var_CGAn_3_01_256              | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_Mito_3_00_256    | x        | Cel_Int_MinIntEdge_CGAn              | log2(x+1) | Cyt_Txtr_DiffVar_Mito_3_03_256              | log2(x+1) | Cyt_Txtr_Var_CGAn_3_02_256              | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_Mito_3_01_256    | x        | Cel_Int_MinIntEdge_EndoRet           | log2(x+1) | Nuc_Txtr_DiffVar_Nuc_3_00_256               | log2(x+1) | Cyt_Txtr_Var_CGAn_3_03_256              | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_Mito_3_02_256    | x        | Cel_Int_MinIntEdge_Mito              | log2(x+1) | Nuc_Txtr_DiffVar_Nuc_3_01_256               | log2(x+1) | Cyt_Txtr_Var_CGAn_3_00_256              | log2(x+0.01)        |
| Cyt_Txtr_DiffEntro_Mito_3_03_256    | x        | Cel_Int_MinInt_CGAn                  | log2(x+1) | Nuc_Txtr_DiffVar_Nuc_3_02_256               | log2(x+1) | Cyt_Txtr_Var_EndoRet_3_01_256           | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_00_256     | x        | Cel_Int_MinInt_EndoRet               | log2(x+1) | Nuc_Shape_Area                              | log2(x+1) | Cyt_Txtr_Var_EndoRet_3_02_256           | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_01_256     | x        | Cel_Int_MinInt_Mito                  | log2(x+1) | Nuc_Shape_BBoxArea                          | log2(x+1) | Cyt_Txtr_Var_EndoRet_3_03_256           | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_02_256     | x        | Cel_Int_MinInt_CGAn                  | log2(x+1) | Nuc_Shape_Compactness                       | log2(x+1) | Cyt_Txtr_Var_Mito_3_00_256              | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_03_256     | x        | Cel_Int_MinInt_EndoRet               | log2(x+1) | Nuc_Shape_ConvexArea                        | log2(x+1) | Cyt_Txtr_Var_Mito_3_01_256              | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_00_256     | x        | Cel_Int_MinInt_Mito                  | log2(x+1) | Nuc_Shape_EquivDiameter                     | log2(x+1) | Cyt_Txtr_Var_Mito_3_02_256              | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_01_256     | x        | Cel_Int_MinInt_CGAn                  | log2(x+1) | Nuc_Shape_EquivDiameter                     | log2(x+1) | Cyt_Txtr_Var_Mito_3_03_256              | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_02_256     | x        | Cel_Int_MinInt_EndoRet               | log2(x+1) | Nuc_Shape_FormFactor                        | log2(x+1) | Nuc_Txtr_Var_Nuc_3_00_256               | log2(x+0.01)        |
| Nuc_Txtr_DiffEntro_Nuc_3_03_256     | x        | Cel_Int_MinInt_Mito                  | log2(x+1) | Nuc_Shape_MajorAxisLength                   | log2(x+1) | Nuc_Txtr_Var_Nuc_3_01_256               | log2(x+0.01)        |
| Cyt_Txtr_Entropy_CGAn_3_01_256      | x        | Cel_Int_UpperQInt_CGAn               | log2(x+1) | Nuc_Shape_MaxFerretDiameter                 | log2(x+1) | Nuc_Txtr_Var_Nuc_3_02_256               | log2(x+0.01)        |
| Cyt_Txtr_Entropy_CGAn_3_02_256      | x        | Cel_Int_UpperQInt_EndoRet            | log2(x+1) | Nuc_Shape_MaxRadius                         | log2(x+1) | Nuc_Txtr_Var_Nuc_3_03_256               | log2(x+0.01)        |
| Cyt_Txtr_Entropy_CGAn_3_03_256      | x        | Cel_Int_UpperQInt_Mito               | log2(x+1) | Nuc_Shape_MeanRadius                        | log2(x+1) |                                         |                     |
| Cyt_Txtr_Entropy_Mito_3_00_256      | x        |                                      |           | Nuc_Shape_MedRadius                         | log2(x+1) |                                         |                     |
| Cyt_Txtr_Entropy_Mito_3_01_256      | x        |                                      |           | Nuc_Shape_Perimeter                         | log2(x+1) |                                         |                     |
| Cyt_Txtr_Entropy_Mito_3_02_256      | x        |                                      |           |                                             |           |                                         |                     |
| Cyt_Txtr_Entropy_Mito_3_03_256      | x        |                                      |           |                                             |           |                                         |                     |

**Supplementary File 2: Cell Painting regularization procedure.** Formula of transformation applied per CP feature, ordered by feature families. 2{ } means that the transformation has been applied two times.