Logistic Regression

Citation

website

Logistic Regression Equation

```
Z_i = \ln(\frac{P_i}{1-P_i}) = \alpha + \beta_1 x_1 + ... + \beta_n x_n where P is the probability of event and always lays between 0 and 1. Taking the exponent of both sides of the equation gives: P_i = E(y=1|x_i) = \frac{e^z}{1+e^z} = \frac{e^{\alpha+\beta_i x_i}}{1+e^{\alpha+\beta_i x_i}} # Template code # Step 1: Build Logit model on Training Dataset logitModel <- glm(Y ~ X1 + X2, family = 'binomial', data = trainingData) # Step 2: Predict Y on Test Dataset
```

Building the logistic regression model in R

predictedY <- predict(logitModel, testData, type = 'response')</pre>

We're going to use the BreastCancer dataset in the mlbench package.

```
# install.packages('mlbench')
data(BreastCancer, package = 'mlbench')

## Create a copy of the BreastCancer dataset
bc <- BreastCancer[complete.cases(BreastCancer), ]
head(bc)</pre>
```

```
Id Cl.thickness Cell.size Cell.shape Marg.adhesion Epith.c.size
## 1 1000025
            5
                            1
## 2 1002945
                   5
                  3
                                                            2
## 3 1015425
                           1
## 4 1016277
                   6
                           8
                                     8
                                                            2
## 5 1017023
                   4
                           1
                                     1
                           10
## 6 1017122
                   8
                                    10
## Bare.nuclei Bl.cromatin Normal.nucleoli Mitoses
                                               Class
## 1
      1 3
                                  1
                                              benign
      10
## 2
                      3
                                              benign
```

```
## 3
               2
                            3
                                                           benign
                                             1
                                                      1
## 4
               4
                            3
                                             7
                                                      1
                                                           benign
## 5
               1
                            3
                                             1
                                                           benign
                                             7
## 6
              10
                            9
                                                      1 malignant
str(bc)
##
  'data.frame':
                     683 obs. of 11 variables:
##
    $ Id
                      : chr "1000025" "1002945" "1015425" "1016277" ...
```

```
$ Cl.thickness
                     : Ord.factor w/ 10 levels "1"<"2"<"3"<"4"<...: 5 5 3 6 4 8 1 2 2 4 ...
##
   $ Cell.size
                     : Ord.factor w/ 10 levels "1"<"2"<"3"<"4"<..: 1 4 1 8 1 10 1 1 1 2 ...
                     : Ord.factor w/ 10 levels "1"<"2"<"3"<"4"<..: 1 4 1 8 1 10 1 2 1 1 ...
## $ Cell.shape
  $ Marg.adhesion : Ord.factor w/ 10 levels "1"<"2"<"3"<"4"<..: 1 5 1 1 3 8 1 1 1 1 ...
                     : Ord.factor w/ 10 levels "1"<"2"<"3"<"4"<..: 2 7 2 3 2 7 2 2 2 2 ...
   $ Epith.c.size
##
                     : Factor w/ 10 levels "1","2","3","4",..: 1 10 2 4 1 10 10 1 1 1 ...
   $ Bare.nuclei
                     : Factor w/ 10 levels "1", "2", "3", "4", ...: 3 3 3 3 3 9 3 3 1 2 ...
##
  $ Bl.cromatin
  $ Normal.nucleoli: Factor w/ 10 levels "1","2","3","4",..: 1 2 1 7 1 7 1 1 1 1 ...
                     : Factor w/ 9 levels "1","2","3","4",...: 1 1 1 1 1 1 1 5 1 ...
##
   $ Mitoses
##
   $ Class
                     : Factor w/ 2 levels "benign", "malignant": 1 1 1 1 1 2 1 1 1 1 ...
```

In this example, we are interested in the relationship between Cell.shape, which is an ordered factor, and Class. When you build a logistic model with factor variables, R converts each level in the factor to a dummy binary variable of 1's and 0's. The ordered factor is going to be a problem here because of the hierarchy. We need to remove that hierarchy and convert Cell.shape into a regular factor.

Preprocessing the dataset

```
## Remove the Id field
bc <- bc[,-1]
fields_to_factorize <- names(bc)[-ncol(bc)]</pre>
for (field in fields_to_factorize) {
  bc[, field] <- factor(as.character(bc[, field]))</pre>
}
str(bc)
## 'data.frame':
                    683 obs. of 10 variables:
   $ Cl.thickness
                     : Factor w/ 10 levels "1","10","2","3",..: 6 6 4 7 5 9 1 3 3 5 ...
                      : Factor w/ 10 levels "1", "10", "2", "3", ...: 1 5 1 9 1 2 1 1 1 3 ...
## $ Cell.size
   $ Cell.shape
                      : Factor w/ 10 levels "1","10","2","3",..: 1 5 1 9 1 2 1 3 1 1 ...
   $ Marg.adhesion : Factor w/ 10 levels "1","10","2","3",..: 1 6 1 1 4 9 1 1 1 1 ...
##
   $ Epith.c.size
                     : Factor w/ 10 levels "1","10","2","3",..: 3 8 3 4 3 8 3 3 3 3 ...
    $ Bare.nuclei
                      : Factor w/ 10 levels "1", "10", "2", "3", ...: 1 2 3 5 1 2 2 1 1 1 ...
##
                     : Factor w/ 10 levels "1", "10", "2", "3", ...: 4 4 4 4 4 10 4 4 1 3 ...
##
    $ Bl.cromatin
   $ Normal.nucleoli: Factor w/ 10 levels "1","10","2","3",..: 1 3 1 8 1 8 1 1 1 1 ...
                     : Factor w/ 9 levels "1","10","2","3",..: 1 1 1 1 1 1 1 6 1 ...
##
    $ Mitoses
                      : Factor w/ 2 levels "benign", "malignant": 1 1 1 1 1 2 1 1 1 1 ...
    $ Class
bc$Class <- ifelse(bc$Class == 'malignant', 1, 0)</pre>
bc$Class <- factor(bc$Class, levels = c(0, 1))</pre>
str(bc)
```

```
## 'data.frame':
                    683 obs. of 10 variables:
                    : Factor w/ 10 levels "1", "10", "2", "3", ...: 6 6 4 7 5 9 1 3 3 5 ...
##
   $ Cl.thickness
                     : Factor w/ 10 levels "1","10","2","3",..: 1 5 1 9 1 2 1 1 1 3 ...
##
   $ Cell.size
                     : Factor w/ 10 levels "1","10","2","3",..: 1 5 1 9 1 2 1 3 1 1 ...
##
  $ Cell.shape
   $ Marg.adhesion : Factor w/ 10 levels "1","10","2","3",..: 1 6 1 1 4 9 1 1 1 1 ...
##
   $ Epith.c.size : Factor w/ 10 levels "1","10","2","3",...: 3 8 3 4 3 8 3 3 3 3 ...
##
   $ Bare.nuclei
                     : Factor w/ 10 levels "1","10","2","3",..: 1 2 3 5 1 2 2 1 1 1 ...
                     : Factor w/ 10 levels "1","10","2","3",..: 4 4 4 4 4 10 4 4 1 3 ...
   $ Bl.cromatin
##
##
   $ Normal.nucleoli: Factor w/ 10 levels "1","10","2","3",..: 1 3 1 8 1 8 1 1 1 1 ...
                     : Factor w/ 9 levels "1","10","2","3",..: 1 1 1 1 1 1 1 6 1 ...
##
   $ Mitoses
   $ Class
                     : Factor w/ 2 levels "0", "1": 1 1 1 1 1 2 1 1 1 1 ...
```

How to deal with class imbalance

Before building the logistic model, you need to randomly split the data into training and test samples.

Since the response variable is a binary categorical variable, you need to make sure that the training data has approximately equal proportions of classes.

```
##
## 0 1
## 444 239
```

The classes are split between benign (0) and malignant (1) approximately 1:2.

Clearly there is a class imbalance. So, before building the logit model, you need to build samples such that both the 1's and 0's are in approximately equal proportions.

This concern is normally handled with a couple of techniques called: * Down sampling * Up sampling * Hybrid sampling using SMOTE and ROSE

How to handle Class Imbalance with Upsampling and Downsampling

In Down sampling, the majority class is randomly down sampled to be of the same size as the smaller class. That means, when creating the training dataset, the rows with the benign Class will be picked fewer times during the random sampling.

Similarly, in Up sampling, rows from the minority class, that is malignant, is repeatedly sampled over and over again till it reaches the same size as the majority class [benign].

But in the case of the Hybrid sampling, artificial data points are generated and are systematically added around the minority class. This can be implemented using the SMOTE and ROSE packages.

```
## Loading required package: lattice
## Loading required package: ggplot2
```

```
'%ni%' <- Negate('%in%') # define the 'NOT IN" function
options(scipen = 999) # prevents printing scientific notation

# Prep Training and Test data
set.seed(100)
trainDataIndex <- createDataPartition(bc$Class, p = 0.7, list = F) # 70% training data
trainData <- bc[trainDataIndex, ]
testData <- bc[-trainDataIndex, ]</pre>
```

table(trainData\$Class)

##

##

##

0 0 0 0 0 0 0 0 0

0 0 0 0 0

0 0 0 0 0

0 0

There are approximately 2 times more benign samples in the training dataset. So, let's down sample that training dataset using the downSample function from the caret package.

To do this, you just need to provide the X and Y variables as arguments.

```
, , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
                  1 10
                             3
                                   5
                                          7
                         2
                                4
                                      6
##
                      0
                         0
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              1
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##
              2
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
                Cell.size
## Cl.thickness
                  1 10
                            3
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##
##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
             Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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```
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
               Cell.size
## Cl.thickness
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##
  , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
               Cell.size
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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               Cell.size
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
  , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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               Cell.size
## Cl.thickness
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##
  , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
## Cl.thickness
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##
##
  , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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##
##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
## Cl.thickness 1 10 2
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##
##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
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##
##
  , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
               Cell.size
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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##
##
  , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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## Cl.thickness
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##
##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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##
##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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## Cl.thickness
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##
##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
  , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
              Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
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##
  , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
                Cell.size
##
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## Cl.thickness
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##
##
##
  , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
                Cell.size
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## Cl.thickness
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## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
##
   , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
               Cell.size
## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
```

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Cell.size
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## Cl.thickness
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##
  , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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                Cell.size
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##
  , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
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##
##
  , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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                Cell.size
## Cl.thickness
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## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness 1 10 2
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## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness
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##
##
##
  , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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```
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
               Cell.size
## Cl.thickness
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
               Cell.size
## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10
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##
##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness
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##
  , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
               Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
##
  , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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                Cell.size
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##
  , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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##
  , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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##
  , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
               Cell.size
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## Cl.thickness 1 10
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##
##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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##

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## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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Cell.size
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## Cl.thickness
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##
  , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
  , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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##
  , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
               Cell.size
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## Cl.thickness
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##
##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
  , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
               Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
                Cell.size
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##
##
  , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10
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##
##
   , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
  , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10 2
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## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
  , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
  , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
  , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness
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##
##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
                Cell.size
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
               Cell.size
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## Cl.thickness 1 10
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##
##
   , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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##
   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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  , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
  , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
               Cell.size
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##
##
   , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
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##
##
  , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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##
##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
  , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
##
  , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
  , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
                ##
  , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness 1 10 2
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## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
                Cell.size
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## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
               Cell.size
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##
##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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##
   , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
                ##
  , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
               Cell.size
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##
##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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               Cell.size
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##
   , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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               Cell.size
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10
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##
##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
##
  , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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                ##
  , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness 1 10 2
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##
##
  , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
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##
  , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
   , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
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##
  , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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              Cell.size
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
  , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
  , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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                Cell.size
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
##
  , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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                Cell.size
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
   , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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  , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
  , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## Cl.thickness
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## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
##
   , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
                Cell.size
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## Cl.thickness
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## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
  , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
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##
  , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## Cl.thickness 1 10 2
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## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10
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##
##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
   , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
##
  , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
             Cell.size
## Cl.thickness 1 10 2
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## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
             Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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##
   , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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  , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
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##
##
   , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
## Cl.thickness
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##
##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
## Cl.thickness
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##
##
  , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
                Cell.size
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
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## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
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##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
                Cell.size
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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              Cell.size
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##
  , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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  , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
  , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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                ##
  , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness 1 10 2
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## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
  , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness
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## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness 1 10
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
  , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
##
  , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2 3 4 5 6 7 8 9
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##
##
  , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
##
##
   , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness 1 10
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##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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               Cell.size
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##
##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
  , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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  , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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               Cell.size
## Cl.thickness 1 10
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
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##
##
  , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness 1 10
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##
    [ reached getOption("max.print") -- omitted 1 row(s) and 17999000 matrix slice(s) ]
## Up sample
set.seed(100)
up_train <- upSample(x = trainData[, colnames(trainData) %ni% 'Class'],
                     y = trainData$Class)
table(up_train)
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
               Cell.size
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## Cl.thickness 1 10 2
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```
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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                Cell.size
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##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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              Cell.size
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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Cell.size

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## Cl.thickness 1 10 2
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##
##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
## Cl.thickness
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##
  , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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```
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10
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##
##
  , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
              Cell.size
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## Cl.thickness 1 10 2
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##
##
  , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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## Cl.thickness 1 10 2
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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```
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
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```
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 1, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
  , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
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```
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
                Cell.size
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
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##
##
   , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
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##
   , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
              Cell.size
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
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##
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10
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##
  , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
              Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
              Cell.size
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## Cl.thickness 1 10 2
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##
##
  , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
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## Cl.thickness
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## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
                Cell.size
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##
   , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
  , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
               Cell.size
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## Cl.thickness
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##
##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
                 Cell.size
## Cl.thickness
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##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
##
                 Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
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##
  , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness 1 10 2
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##
##
  , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 10, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
  , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
  , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
              Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 2, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
              Cell.size
## Cl.thickness 1 10
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##
##
  , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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              Cell.size
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness 1 10
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
               Cell.size
## Cl.thickness 1 10
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
               Cell.size
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10 2
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##
##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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                Cell.size
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##
   , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
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##
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## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 3, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
   , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## Cl.thickness
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##
  , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
              Cell.size
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 4, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
##
  , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
   , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## Cl.thickness
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness 1 10 2
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 5, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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```
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 6, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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## Cl.thickness 1 10 2
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##
##
##
  , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
               Cell.size
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## Cl.thickness 1 10
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##
## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
## Cl.thickness
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## , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
  , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
##
##
              Cell.size
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## Cl.thickness
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##
##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
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##
   , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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```
## , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 7, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
##
   , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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## , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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  , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
                Cell.size
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## Cl.thickness
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##
## , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
  , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## Cl.thickness 1 10 2
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##
##
  , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
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##
## , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
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## , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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                Cell.size
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## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 8, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 2, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 4, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 6, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 8, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 1, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 10, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.
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##
   , , Cell.shape = 2, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 3, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
  , , Cell.shape = 4, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 5, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 6, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 7, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 8, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
   , , Cell.shape = 9, Marg.adhesion = 10, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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## , , Cell.shape = 1, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
   , , Cell.shape = 2, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 4, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 6, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 2, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 1, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 4, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 6, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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## , , Cell.shape = 8, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 9, Marg.adhesion = 3, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
   , , Cell.shape = 1, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 10, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 4, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 5, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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Cell.size

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##
   , , Cell.shape = 6, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 8, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 4, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
  , , Cell.shape = 2, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
## , , Cell.shape = 4, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 5, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
               Cell.size
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## , , Cell.shape = 6, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
   , , Cell.shape = 8, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 9, Marg.adhesion = 5, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 1, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 10, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
## , , Cell.shape = 2, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 3, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 4, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 5, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 6, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 7, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 8, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 6, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
  , , Cell.shape = 1, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
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##
##
   , , Cell.shape = 10, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
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##
## , , Cell.shape = 2, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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## , , Cell.shape = 4, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
   , , Cell.shape = 6, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 7, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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## Cl.thickness
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##
## , , Cell.shape = 8, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 9, Marg.adhesion = 7, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
## , , Cell.shape = 1, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
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##
## , , Cell.shape = 10, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
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##
##
   , , Cell.shape = 2, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
   , , Cell.shape = 3, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
   , , Cell.shape = 4, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
## , , Cell.shape = 5, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
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##
##
  , , Cell.shape = 6, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
##
              Cell.size
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##
## , , Cell.shape = 7, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
              Cell.size
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## Cl.thickness 1 10 2
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##
  , , Cell.shape = 8, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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##
##
   , , Cell.shape = 9, Marg.adhesion = 8, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
               Cell.size
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## Cl.thickness 1 10
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##
## , , Cell.shape = 1, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
               Cell.size
## Cl.thickness
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##
   , , Cell.shape = 10, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.n
##
##
                Cell.size
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## Cl.thickness
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```
## , , Cell.shape = 2, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
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## Cl.thickness
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##
   , , Cell.shape = 3, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
                  1 10
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##
##
##
   , , Cell.shape = 4, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
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## Cl.thickness
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##
   , , Cell.shape = 5, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
                Cell.size
## Cl.thickness
                  1 10
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##
## , , Cell.shape = 6, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 7, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
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##
## , , Cell.shape = 8, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
##
              Cell.size
## Cl.thickness 1 10 2
                         3
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                               5 6 7 8 9
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##
## , , Cell.shape = 9, Marg.adhesion = 9, Epith.c.size = 9, Bare.nuclei = 1, Bl.cromatin = 1, Normal.nu
##
```

Cell.size

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## Cl.thickness
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##
    [ reached getOption("max.print") -- omitted 1 row(s) and 17999000 matrix slice(s) ]
##
```

Building a logistic regression

```
## Build Logistic Model
logitmod <- glm(Class ~ Cl.thickness + Cell.size + Cell.shape, family = 'binomial', data = down_train)</pre>
## Warning: glm.fit: fitted probabilities numerically 0 or 1 occurred
summary(logitmod)
##
## Call:
## glm(formula = Class ~ Cl.thickness + Cell.size + Cell.shape,
       family = "binomial", data = down_train)
##
##
## Deviance Residuals:
##
       Min
                 1Q
                      Median
                                    3Q
                                            Max
## -1.9152 -0.1237
                      0.0000
                                0.0000
                                         3.2886
##
## Coefficients:
##
                    Estimate Std. Error z value Pr(>|z|)
## (Intercept)
                    -22.6861
                              4196.3590
                                         -0.005
                                                   0.9957
## Cl.thickness10
                     41.2398
                              6880.0572
                                           0.006
                                                   0.9952
## Cl.thickness2
                     18.0819
                              4196.3591
                                           0.004
                                                   0.9966
## Cl.thickness3
                     17.8168
                              4196.3591
                                           0.004
                                                   0.9966
## Cl.thickness4
                     17.2831
                              4196.3591
                                           0.004
                                                   0.9967
## Cl.thickness5
                     18.3612 4196.3590
                                           0.004
                                                   0.9965
## Cl.thickness6
                     18.5555 4196.3590
                                           0.004
                                                   0.9965
## Cl.thickness7
                     40.1731 10757.0460
                                                   0.9970
                                           0.004
## Cl.thickness8
                     19.7605
                              4196.3591
                                           0.005
                                                   0.9962
## Cl.thickness9
                     41.8850 13005.7046
                                           0.003
                                                   0.9974
## Cell.size10
                     22.6395
                              5360.6683
                                           0.004
                                                   0.9966
## Cell.size2
                      1.5910
                                  1.1676
                                           1.363
                                                   0.1730
                                  1.0725
## Cell.size3
                     1.6557
                                           1.544
                                                   0.1226
## Cell.size4
                      1.1779
                                  1.5314
                                           0.769
                                                   0.4418
## Cell.size5
                     39.2578
                              8819.8885
                                           0.004
                                                   0.9964
## Cell.size6
                     39.0908
                              8278.5346
                                           0.005
                                                   0.9962
## Cell.size7
                     21.5084
                              9206.0274
                                           0.002
                                                   0.9981
```

```
## Cell.size8
                      3.0289
                                 2.0981
                                          1.444
                                                  0.1488
                      0.8718 22396.4481
## Cell.size9
                                          0.000
                                                  1.0000
## Cell.shape10
                     19.8188 5092.7380
                                          0.004
                                                  0.9969
## Cell.shape2
                      0.6627
                                 1.5836
                                          0.418
                                                  0.6756
## Cell.shape3
                      2.5741
                                 1.2963
                                          1.986
                                                  0.0471 *
                                 1.4465
                                                  0.0276 *
## Cell.shape4
                      3.1868
                                          2.203
## Cell.shape5
                      4.3711
                                 1.8670
                                          2.341
                                                  0.0192 *
## Cell.shape6
                      4.3291
                                 1.7912
                                          2.417
                                                  0.0157 *
## Cell.shape7
                     22.2184
                              7787.0816
                                          0.003
                                                  0.9977
## Cell.shape8
                      2.3412
                                 2.2830
                                          1.025
                                                  0.3051
## Cell.shape9
                     22.7957 25325.9000
                                          0.001
                                                  0.9993
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
##
       Null deviance: 465.795
                               on 335
                                       degrees of freedom
## Residual deviance: 61.453
                               on 308
                                       degrees of freedom
## AIC: 117.45
##
## Number of Fisher Scoring iterations: 21
```

Predict on test data

The logit model is now constructed. You can now use it to predict the response on testData.

```
pred <- predict(logitmod, newdata = testData, type = 'response')</pre>
```

Now, pred contains the probability that the observation is malignant for each observation.

Note that, when you use logistic regression, you need to set type="response" in order to compute the prediction probabilities. This argument is not needed in case of linear regression.

The common practice is to take the probability cutoff as 0.5. If the probability of Y is > 0.5, then it can be classified as an event [malignant].

So, if pred is greater than 0.5, it is malignant otherwise it is benign.

```
y_pred_num <- ifelse(pred > 0.5, 1, 0)
y_pred <- factor(y_pred_num, levels=c(0, 1))
y_act <- testData$Class</pre>
```