# KM Brazil Life history3

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```
##
Site for color coding plots- http://www.sthda.com/english/wiki/survminer-r-pack
age-survival-data-analysis-and-visualization
Tutorial-http://bioconnector.org/workshops/r-survival.html
```

#### Surv diff by loc

```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Locality, data = surva,
     rho = 0)
##
##
                N Observed Expected (O-E)^2/E (O-E)^2/V
## Locality=ARS 145
                    134 47.3 1.59e+02 200.5817
## Locality=APR 218
                     198
                            93.6 1.16e+02 159.3133
## Locality=RPV 219
                     181 182.3 9.74e-03 0.0152
                     192 229.8 6.22e+00 10.4785
## Locality=RMO 223
## Locality=TLC 120
                      92
                            97.7 3.34e-01 0.4742
                            44.3 3.43e+00 4.5170
                     32
## Locality=TPN 59
                     129 262.9 6.82e+01 133.4890
## Locality=SJU 160
##
## Chisq= 472 on 6 degrees of freedom, p= 0
```

```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Locality, data = surva,
                N Observed Expected (O-E)^2/E (O-E)^2/V
##
## Locality=ARS 145 134 47.3 1.59e+02 200.5817
## Locality=APR 218
                     198
                            93.6 1.16e+02 159.3133
                     181 182.3 9.74e-03 0.0152
## Locality=RPV 219
## Locality=RMO 223
                     192 229.8 6.22e+00 10.4785
                      92
                            97.7 3.34e-01
## Locality=TLC 120
                                             0.4742
## Locality=TPN 59
                      32
                            44.3 3.43e+00 4.5170
## Locality=SJU 160
                     129 262.9 6.82e+01 133.4890
##
## Chisq= 472 on 6 degrees of freedom, p= 0
```

### SUrv diff by biome

```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Biome, data = surva,
## rho = 0)
##
                     N Observed Expected (O-E)^2/E (O-E)^2/V
##
## Biome=Amazon
                    805
                          705 553 41.72 133.09
                                          2.29
## Biome=Cerrado
                   179
                           124
                                   142
                                                   3.42
                                263 68.16 133.49
## Biome=Mata Atlantica 160
                           129
##
\#\# Chisq= 157 on 2 degrees of freedom, p= 0
```

```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Biome, data = surva,
    rho = 0)
##
                     N Observed Expected (O-E)^2/E (O-E)^2/V
##
## Biome=Amazon
                   805 705 553 41.72 133.09
## Biome=Cerrado
                   179
                           124
                                   142
                                          2.29
                                                  3.42
## Biome=Mata Atlantica 160
                           129
                                  263 68.16 133.49
##
\#\# Chisq= 157 on 2 degrees of freedom, p= 0
```

#### Surv diff by lat group

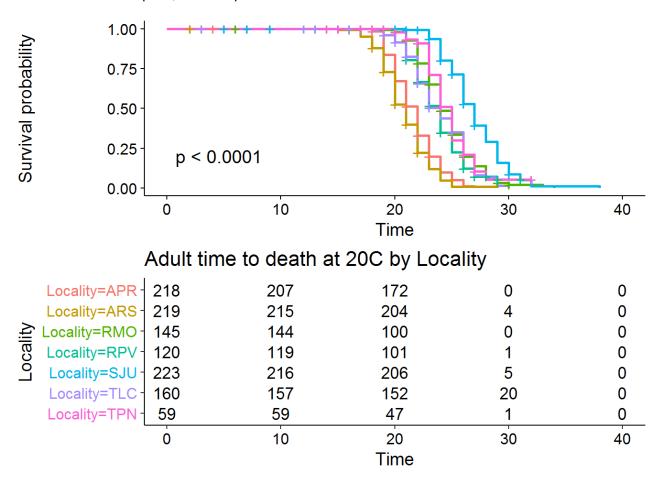
```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Lat group, data = surva,
## rho = 0)
##
##
              N Observed Expected (O-E)^2/E (O-E)^2/V
## Lat group=1 363 332 141 258.8 388
## Lat group=2 621
                   497
                          554
                                  5.9
                                            18
## Lat group=3 160 129
                          263 68.2 133
##
## Chisq= 446 on 2 degrees of freedom, p=0
```

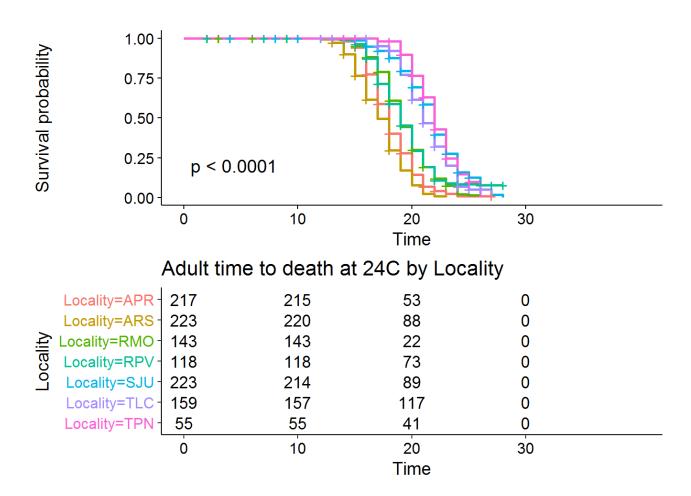
```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Lat group, data = survb,
## rho = 0)
##
##
             N Observed Expected (O-E)^2/E (O-E)^2/V
                    333 179 132.07
## Lat group=1 360
## Lat group=2 619
                    500
                           561
                                  6.68
                                            20.6
                    123
## Lat group=3 159
                           216
                                  39.77
                                            69.1
##
\#\# Chisq= 234 on 2 degrees of freedom, p= 0
```

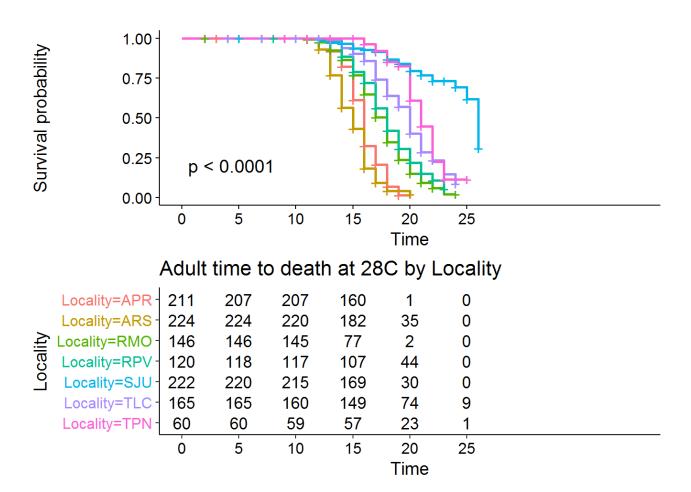
```
## Call:
## survdiff(formula = Surv(time, Death stat) ~ Lat group, data = survc,
## rho = 0)
##
             N Observed Expected (O-E)^2/E (O-E)^2/V
## Lat group=1 357 309 130 247.33
                                          371.7
                          438 3.82
## Lat group=2 626
                   397
                                           11.1
## Lat group=3 165
                   33
                          171 111.66 183.8
##
\#\# Chisq= 466 on 2 degrees of freedom, p= 0
```

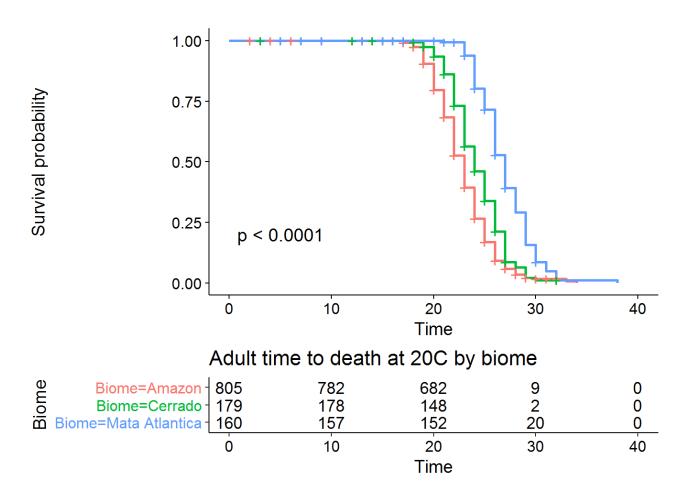
" ## Including Plots

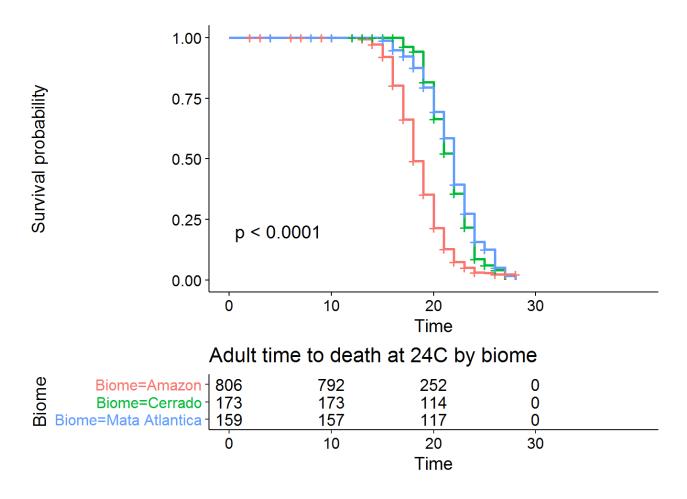
You can also embed plots, for example:

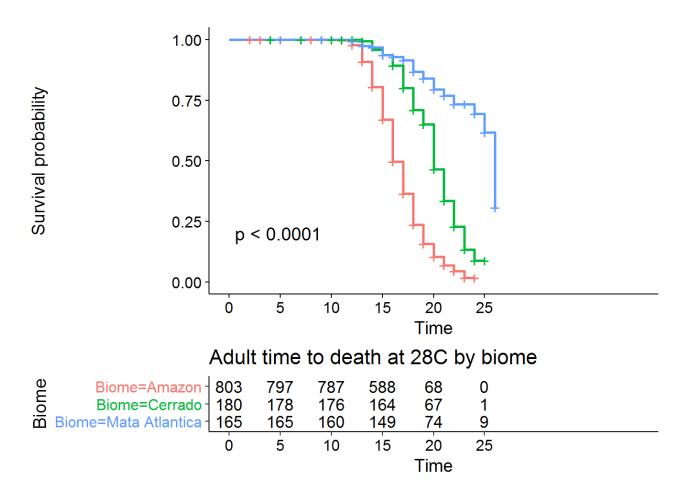


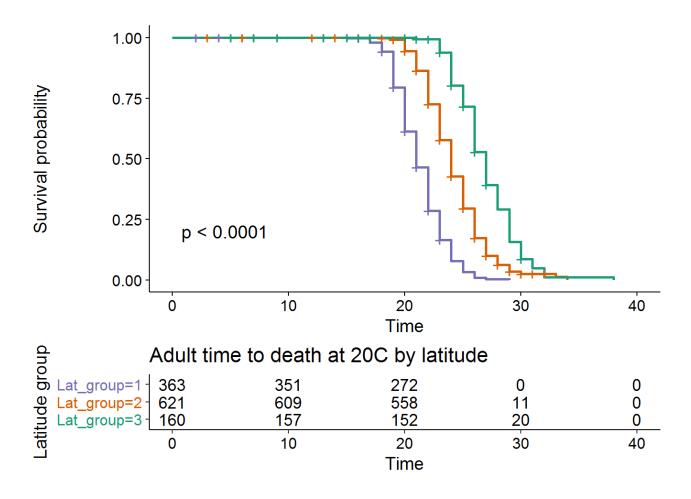


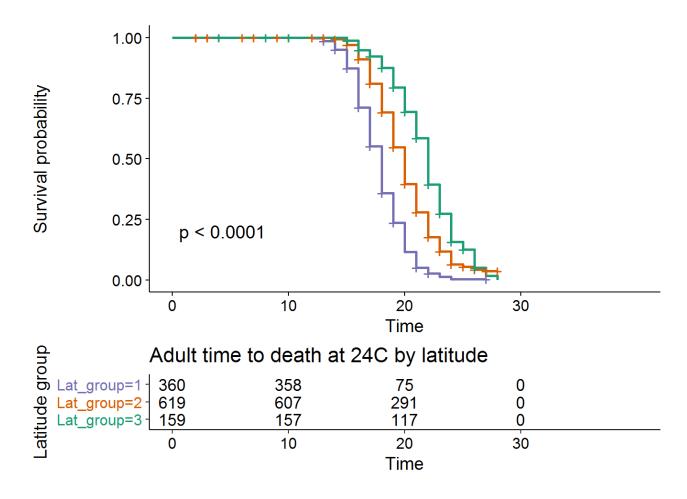


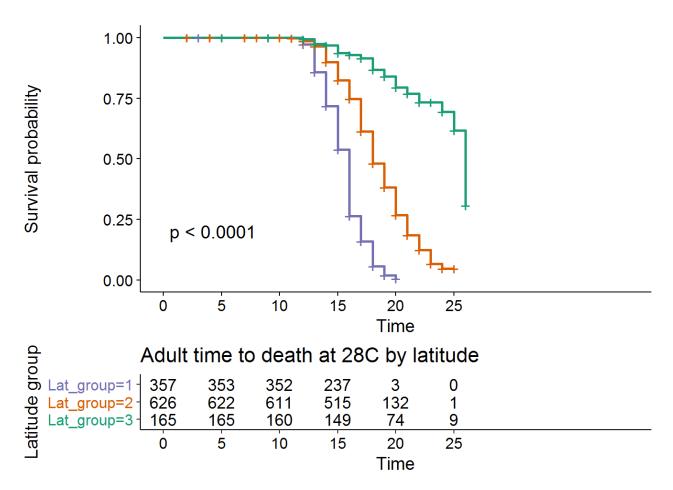












Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.