

Instructions for streamlined Germ Line Age Calculator

Prior to use, the following packages need to have already been successfully installed:

```
"glmnet"  
"minfi"  
"tidyr"
```

The code is written to extract data directly from the .idat file source and as such, the directory in which the .idat's reside must be indicated as follows:

```
idat.dir<-"my_directory"
```

The code also requires that the location of the Germ Line Age model "GLA_Model.rds" is identified as follows:

```
model<-readRDS("location of GLA_Model.rds")
```

The code can then be run by directly pasting the contents of "ComprehensiveGLACode.R" or sourcing this code.

The output of the code will be the predicted age in a matrix named "prediction" with the rownames being "SentryID_position" from the array data.

```
print(prediction)
```

	Predicted Age
203225140049_R01C01	35.83328
203225140049_R02C01	28.62313
203225140049_R03C01	35.29470
203225140049_R04C01	43.33861
203225140049_R05C01	34.99699
203225140049_R06C01	49.04651
203225140049_R07C01	47.78539
203225140049_R08C01	31.53463