Class 06 Function Assignment

Jason (A15796973)

2023-10-30

R Markdown

Function name: BfactorTrend()

Function info: The function will produce a plot of the B factor trend for each protein pdb input. To use it, simply call function using the name or names of the pdb one is interested in. Make sure the files itself are loaded in some way before calling the function, for example: library(bio3d)

Input: The name or names of any pdb Example: BfactorTrend("name") or BfactorTrend("name1", "name2")

Output: The B factor tend of each protein pdb input

```
BfactorTrend = function(...) {

## Using `for()` to allow for the user to create as many plots as they want at

## once instead of having to create them one at a time

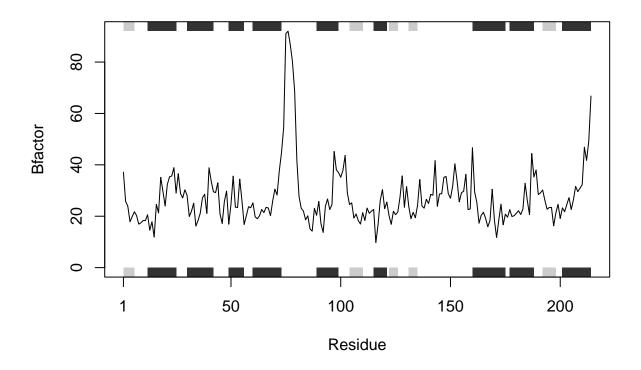
for(i in list(...))
{
   protein = trim.pdb(read.pdb(i), chain="A", elety="CA")

   plotb3(protein$atom$b, sse=protein, typ="l", ylab="Bfactor")
}
```

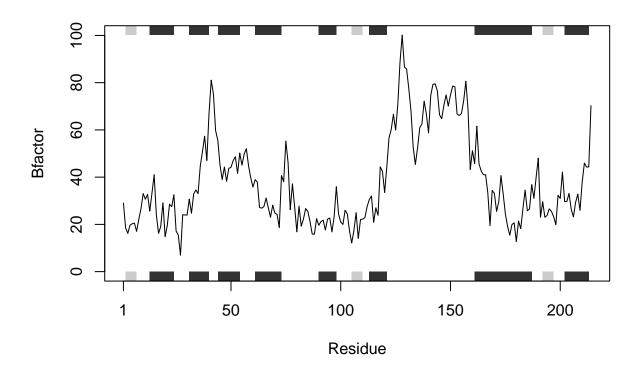
Example

```
library(bio3d)
BfactorTrend("1AKE", "4AKE", "1E4Y" )
```

```
## Note: Accessing on-line PDB file
## PDB has ALT records, taking A only, rm.alt=TRUE
```



Note: Accessing on-line PDB file



Note: Accessing on-line PDB file

