

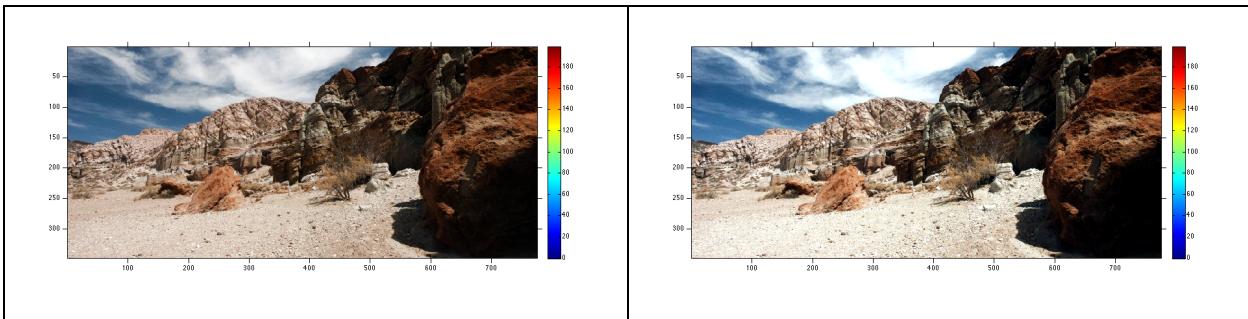
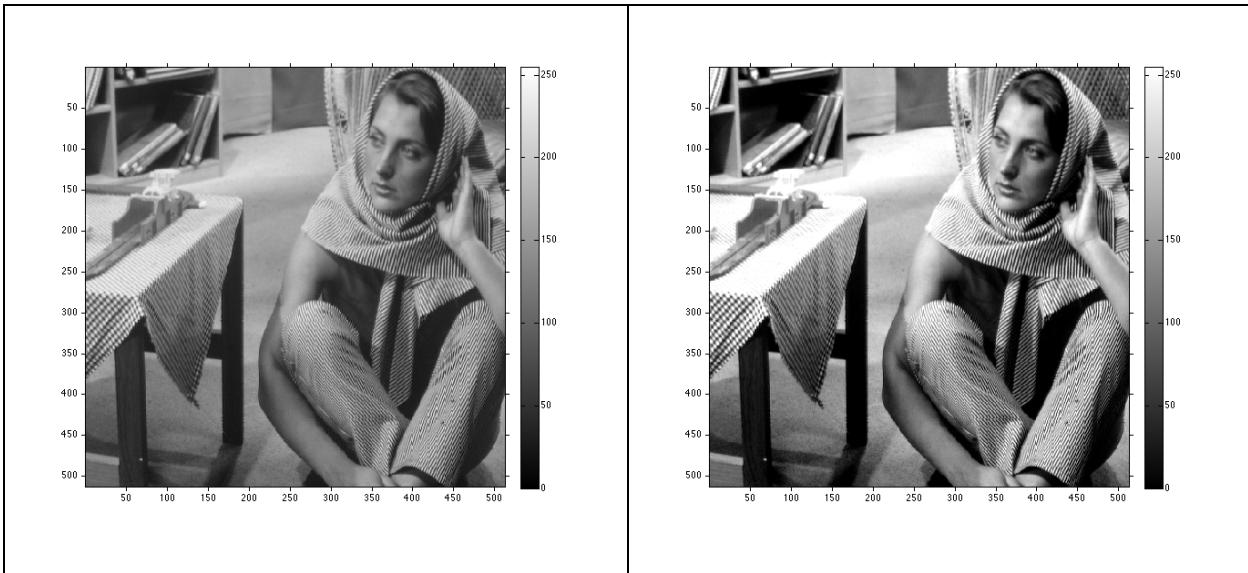
## Question 2

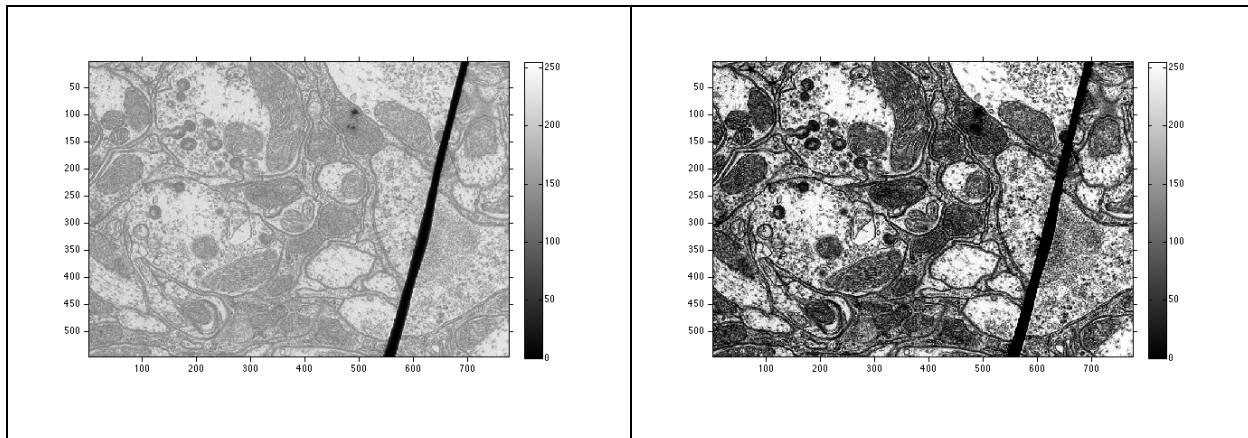
### a) Linear Contrast Stretching

```
img_ch = image(:,:,ch);
```

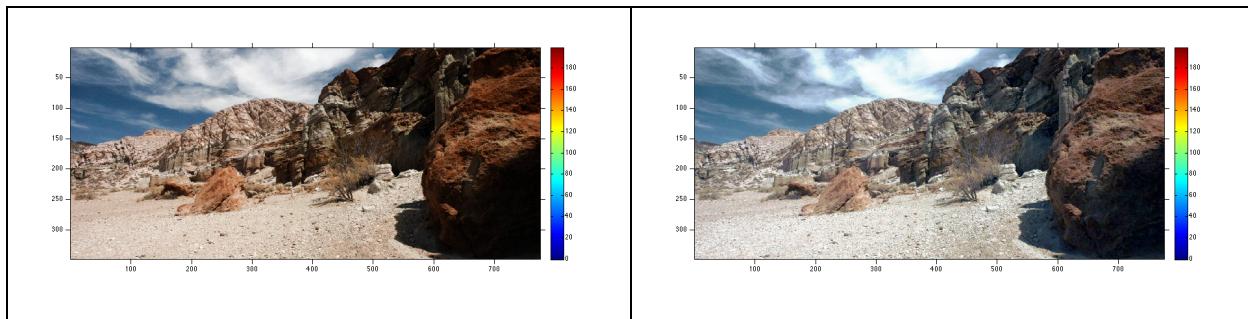
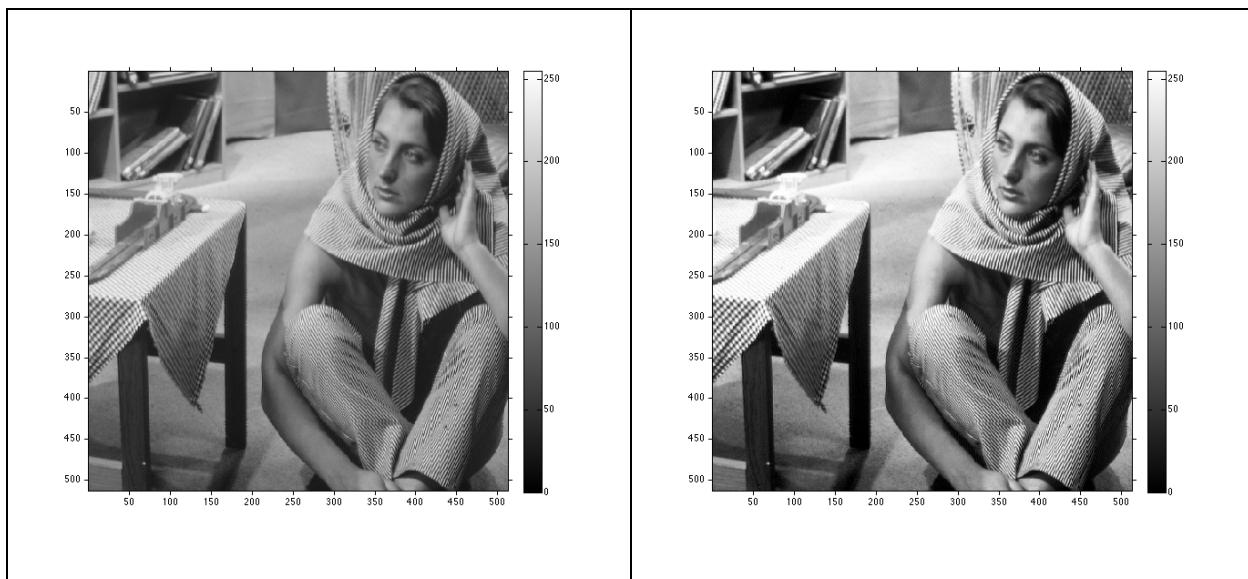
```
perc=prctile(img_ch(:),[5 95]);
```

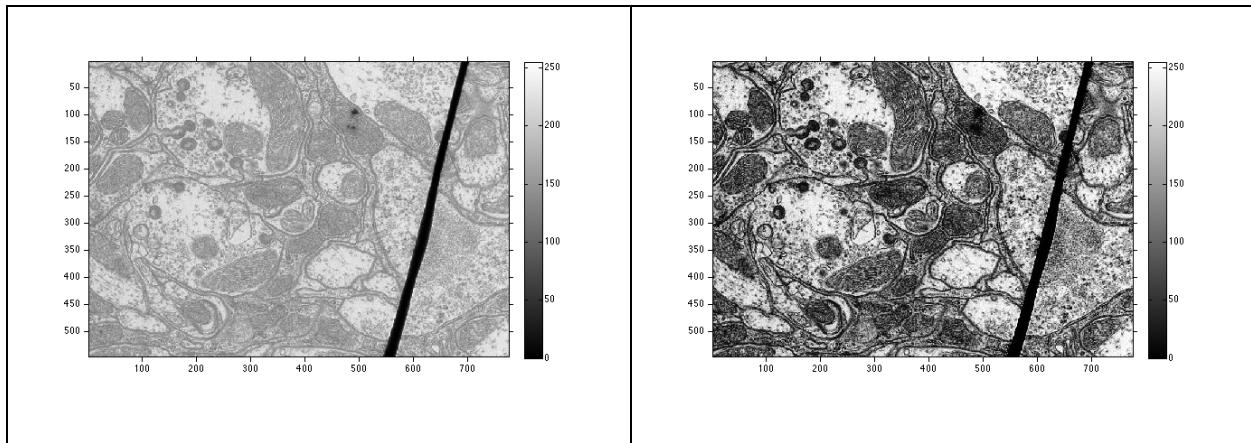
```
image(:,:,ch) = arrayfun(@(x) max(0,min((x-perc(1))*(1/(perc(2)-perc(1))),1)),image(:,:,ch));
```



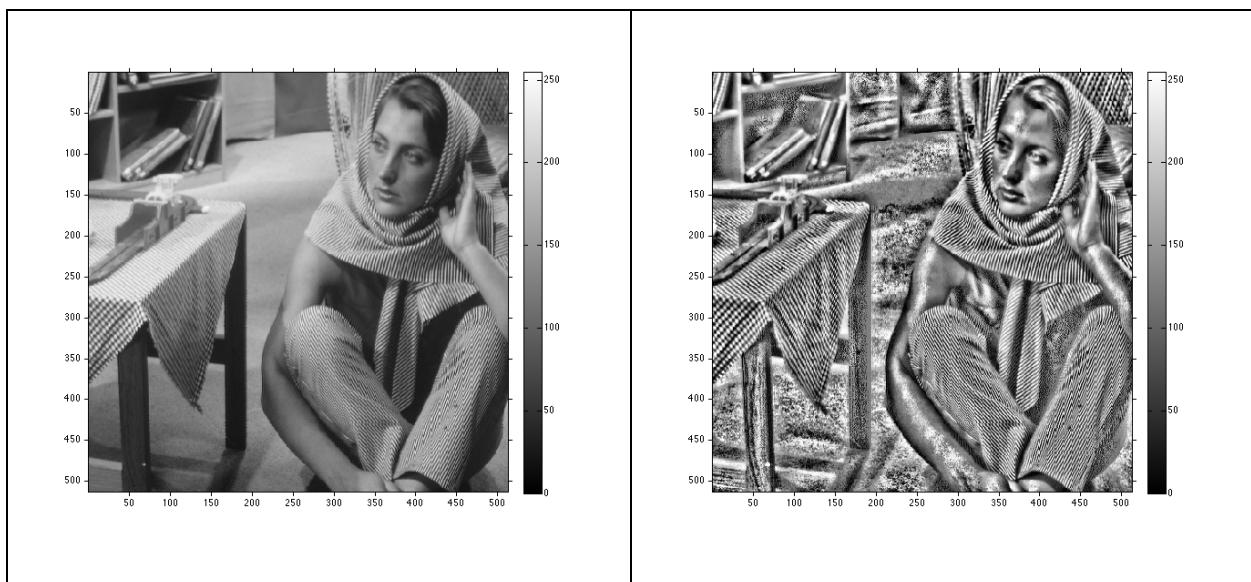


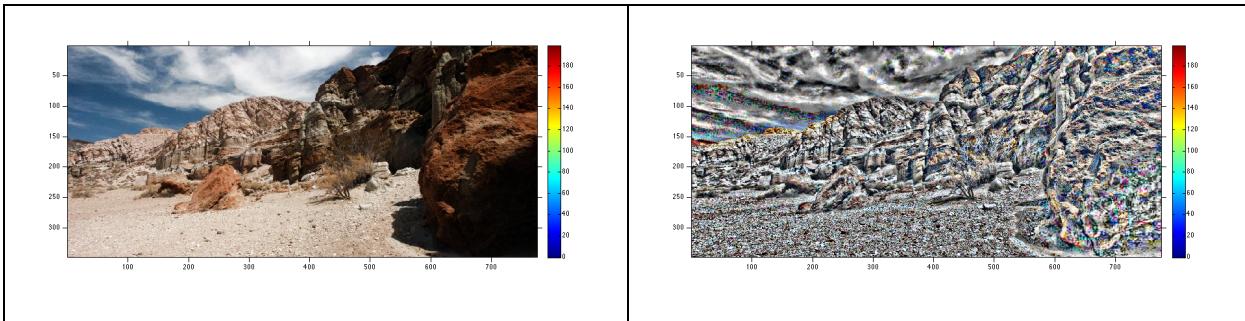
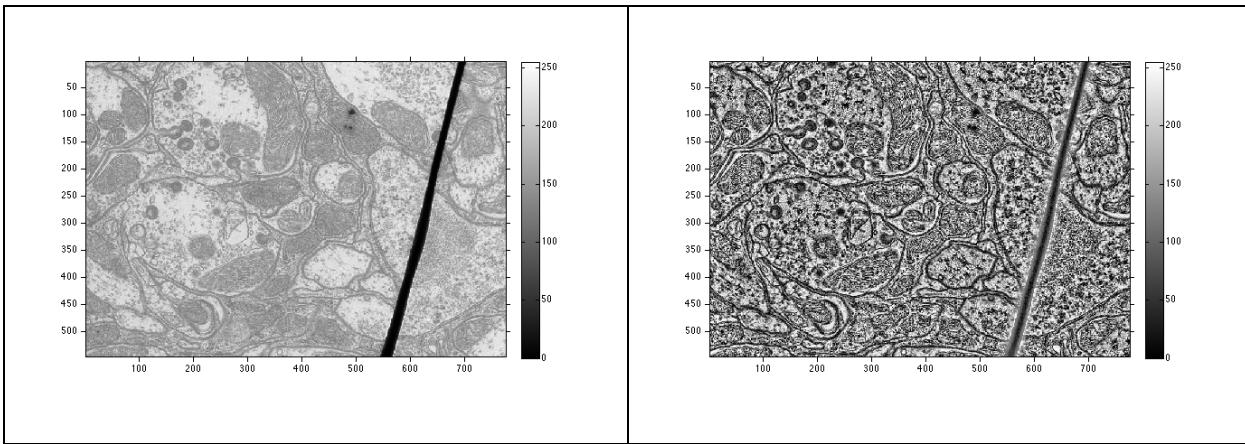
b) Histogram Equalization



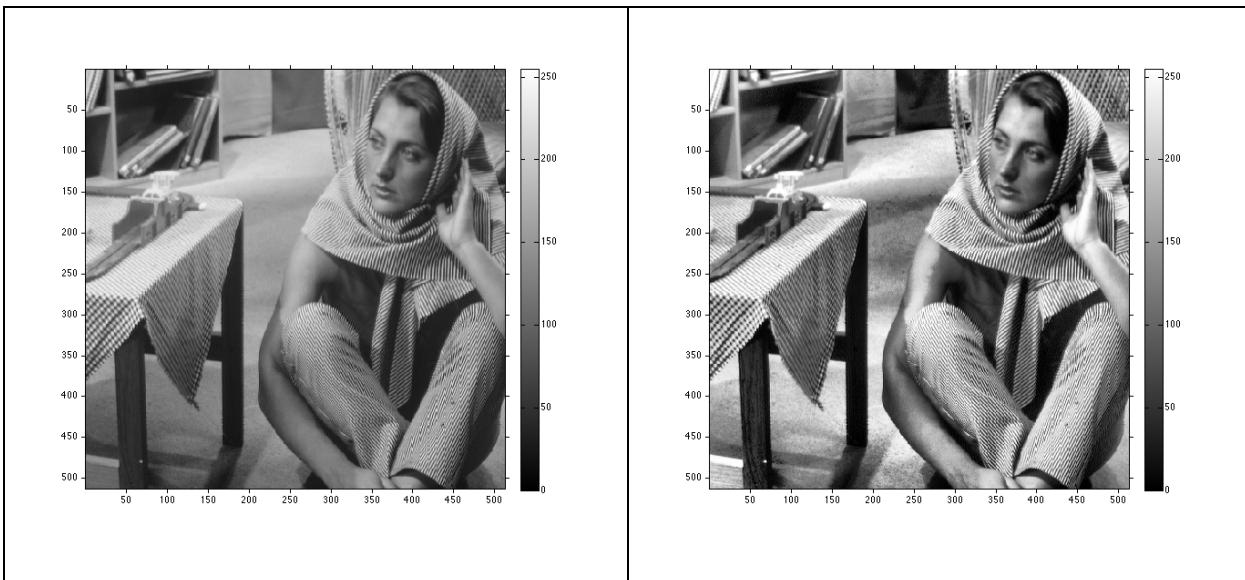


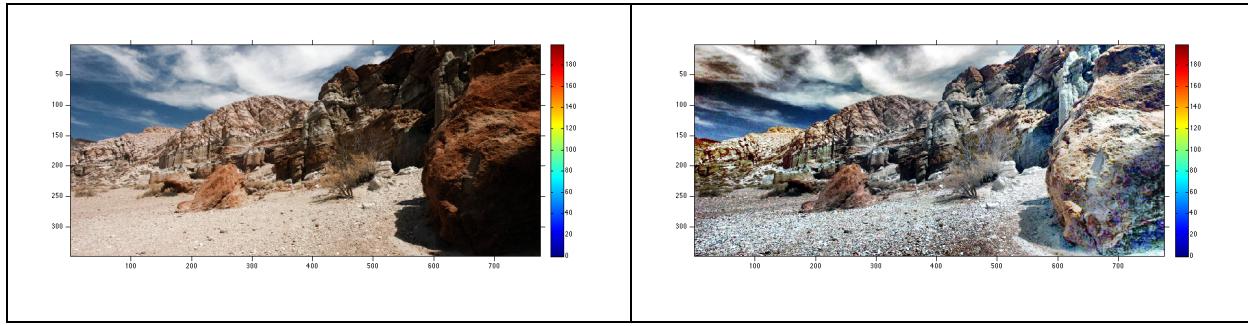
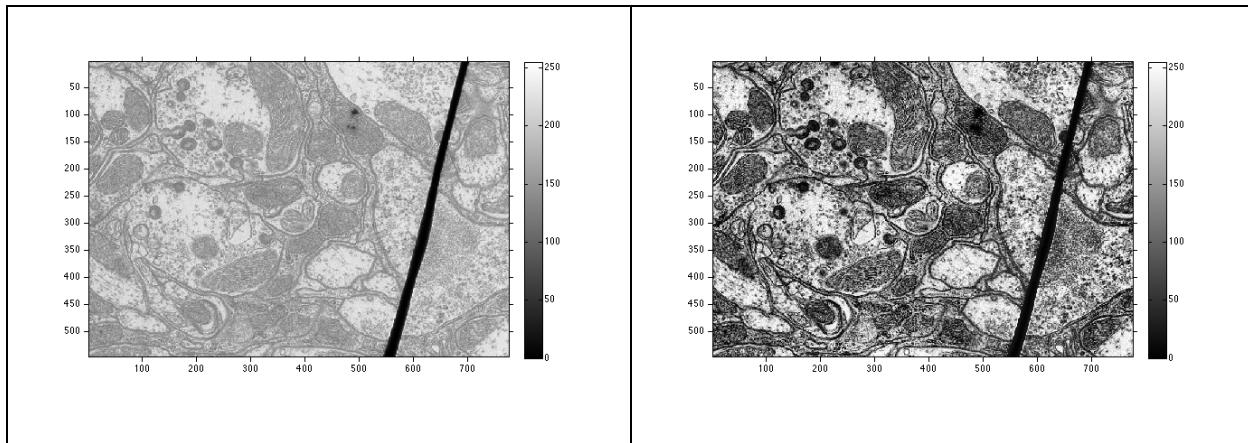
c) Adaptive Histogram Equalization  
Window size = 30



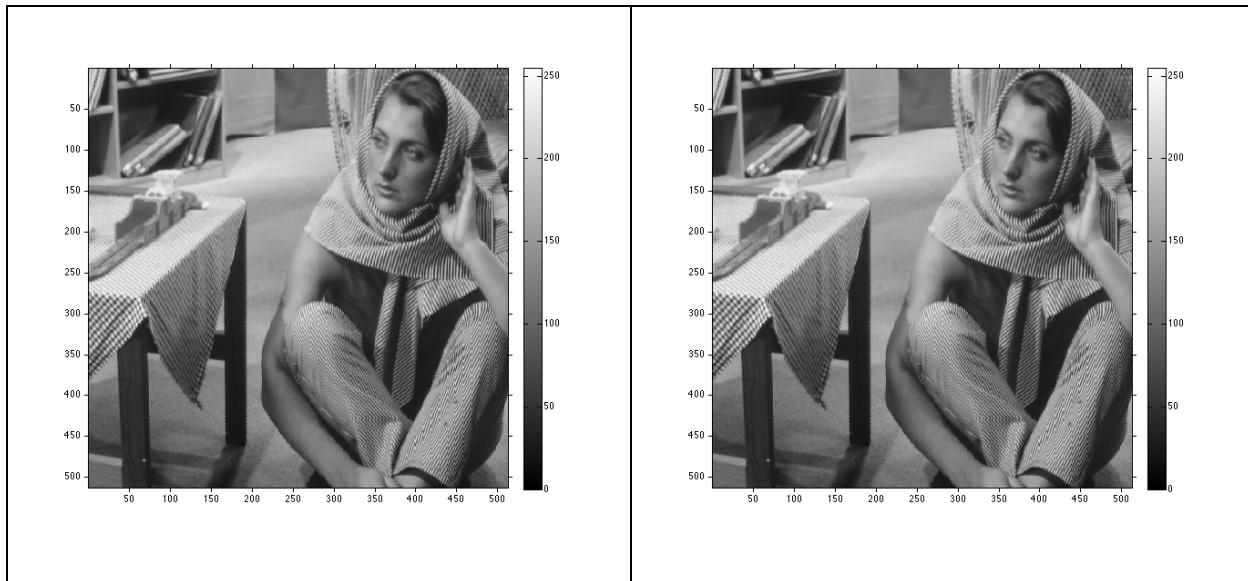


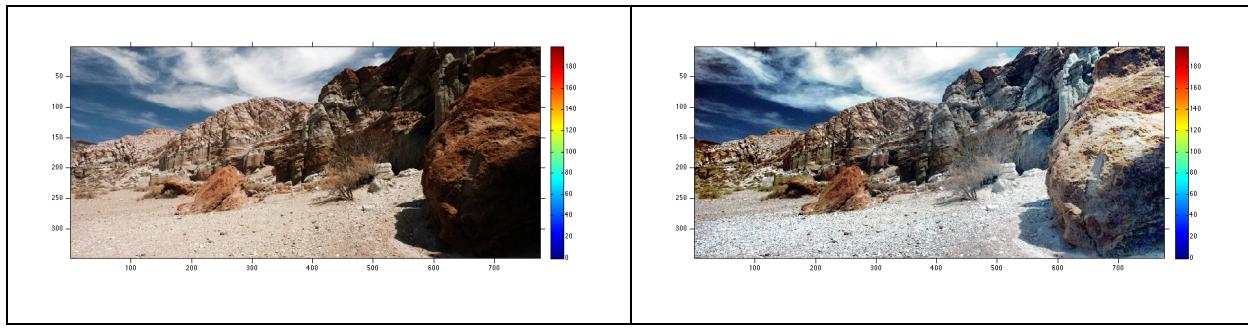
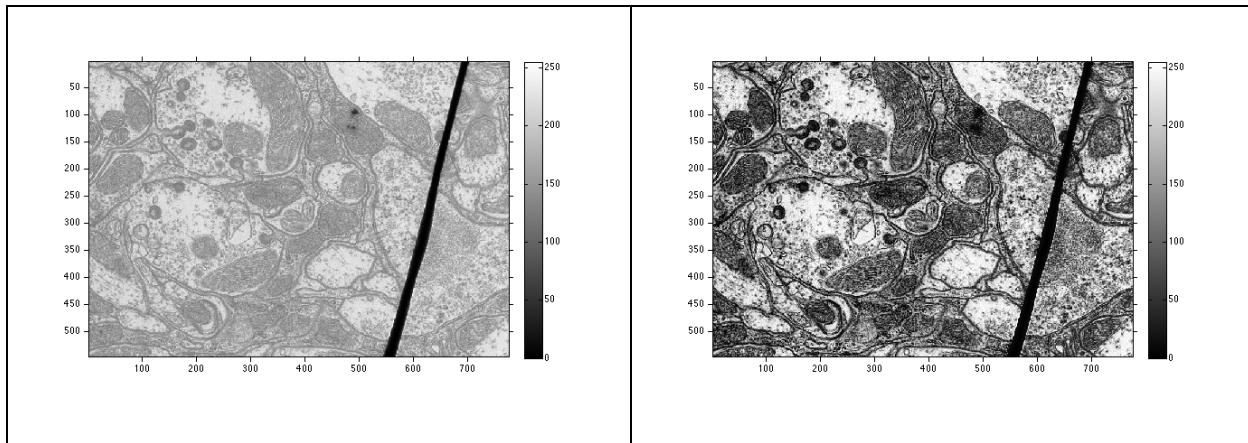
**Window size = 200**





Window size = 400

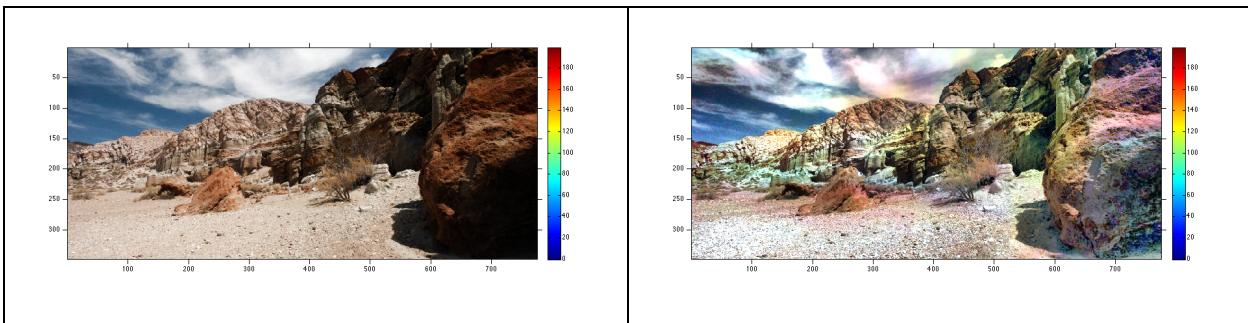
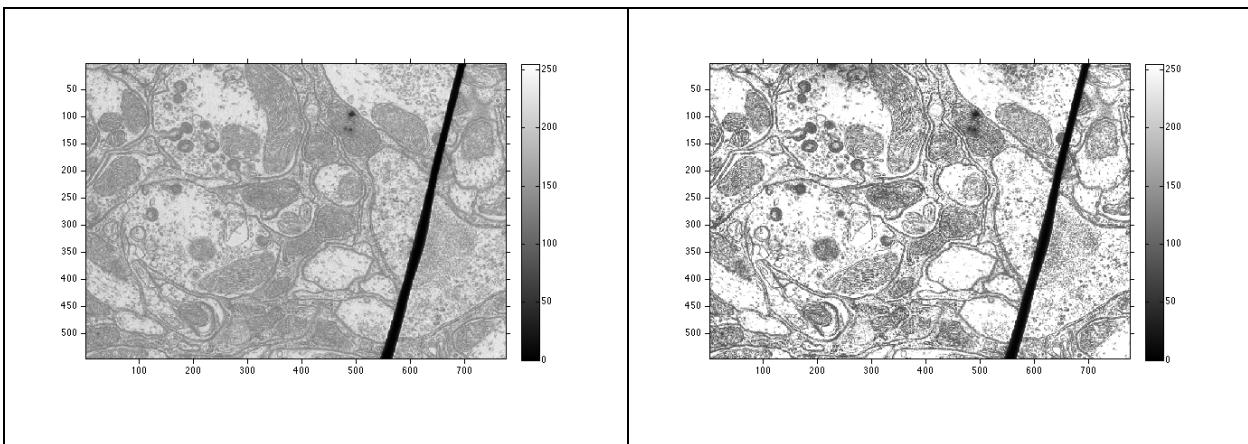




d) CLAHE

Window size = 200

Threshold = 0.2



Threshold = 0.1

