February 2019

```
function correlation(matrix , cluster)
cell_number_list = unique(matrix(:,4));
cell_list_length = length(cell_number_list);
region_number_list = unique(matrix(:,6));
region_list_length = length(matrix(:,6));
for i = 1: length(matrix)
   for j = 1: cell_list_length
   find(matrix(i)
end
for i = 1: length(matrix)
   for j = 1: cell_list_length
       if
       end
   end
end
xbins = linspace(0,500,100);
ybins = linspace(0,500,100);
cluster_matrix = [];
% x = find
if (matrix(:,6) != 6 || matrix(:,6) !=7 || matrix(:,6) !=8)
   print('Rat inside of trash can')
end
for i = 1 : length(matrix)
   for j = 1 : length(xbins)
       for k = 1 : length(ybins)
```