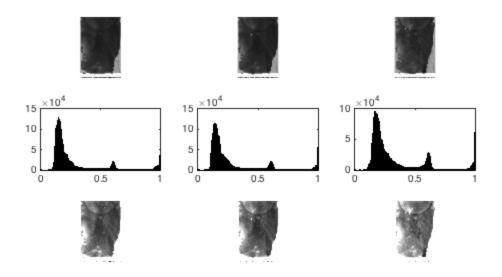
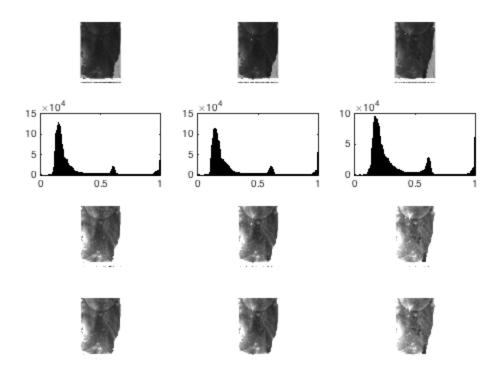
```
%software neutron image treatment:
% 02_Pretraitements_v2: Constrast, filtering, cropping, contour
clc
clear
close all
full_file_name = load_mat();
load(full_file_name)
x array = [882, 882, 896, 908, 916, 916, 926, 930, 930, 930, 930, 930,
930, 930, 930, 930, 930, 930, 930];
y = 164;
width = 1298;
height = 1960;
disp('Cropping...');
crop_images = crop_images(data_images_normalized, x_array, y, width,
height);
% preview data
nbr row = 4;
nbr_column = 3;
row index = 1;
nbr_images = numel(crop_images);
images = {crop_images{1}, crop_images{int16(nbr_images/2)},
 crop_images{end}};
type = 'imshow';
preview_images(nbr_row, nbr_column, row_index, images, type)
% cleanup
disp('Cleaning...');
cleanup images = clean(crop images);
images = {cleanup_images{1}, cleanup_images{int16(nbr_images/2)},
cleanup images{end}};
type = 'histogram';
preview_images(nbr_row, nbr_column, 2, images, type)
% segmentation
xmin = 0.05;
xmax = 0.36;
disp('Segmenting...');
segmented_images = contrast_images(cleanup_images, xmin, xmax);
images = {segmented_images{1}, segmented_images{int16(nbr_images/2)},
 segmented_images{end}};
type = 'imshow';
preview_images(nbr_row, nbr_column, 3, images, type)
Cropping...
Cleaning...
Segmenting...
```



Filtre median / enlevement des points blanches

```
%test
x=5;
y=5;
disp('Filtering...');
filtered_images = median_filter(segmented_images, x, y);
images = {filtered_images{1}, filtered_images{int16(nbr_images/2)},
    filtered_images{end}};
type = 'imshow';
preview_images(nbr_row, nbr_column, 4, images, type)
Filtering...
```



saving files matrix

```
save('data_images_treated.mat', 'filtered_images');
```

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