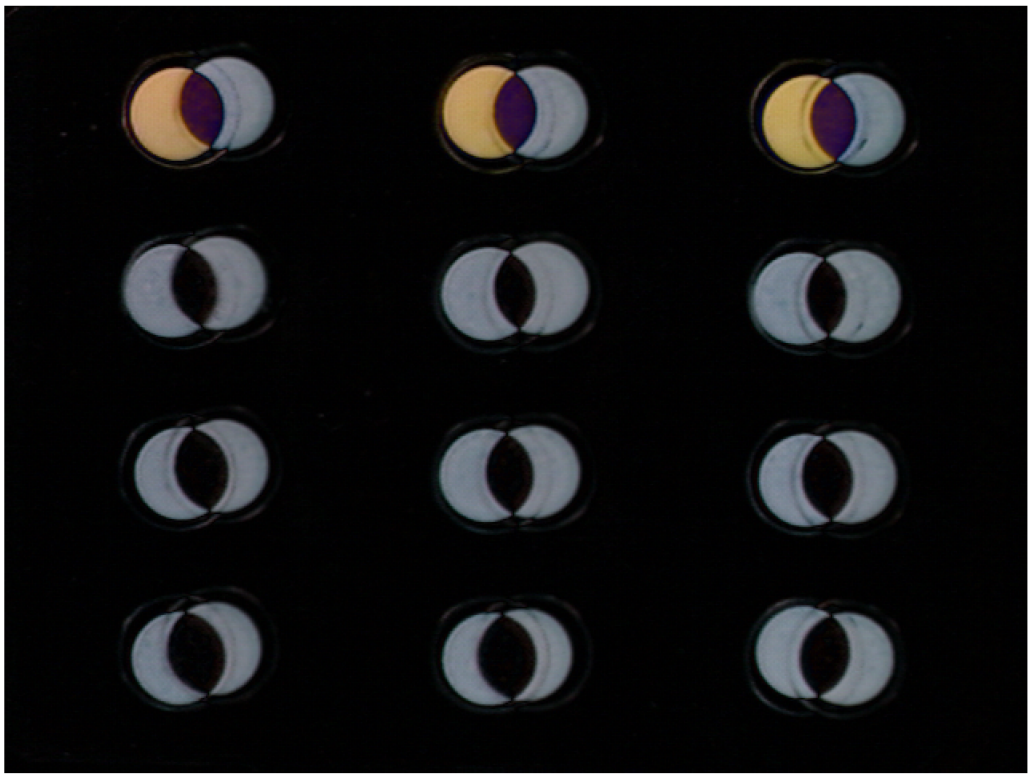
H1

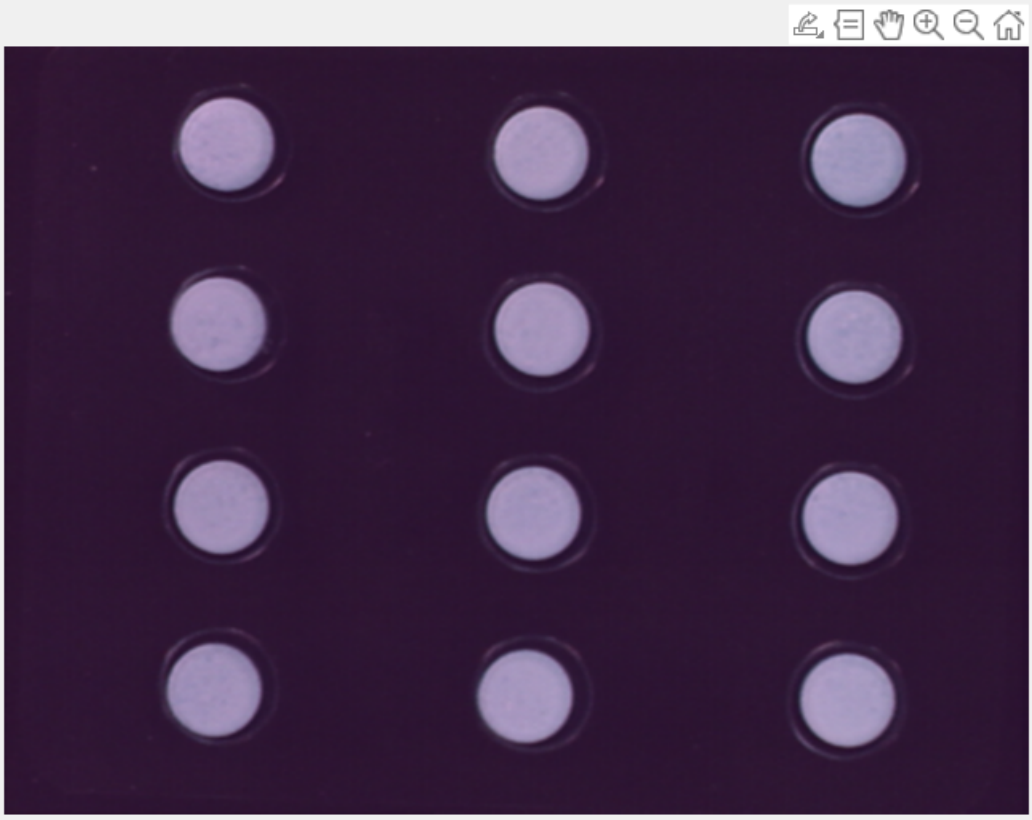
1.

```
A = double(imread('Blispac1.tif'))/255;
B = double(imread('Blispac2.tif'))/255;
D = abs(A - B);
imshow(D)
```

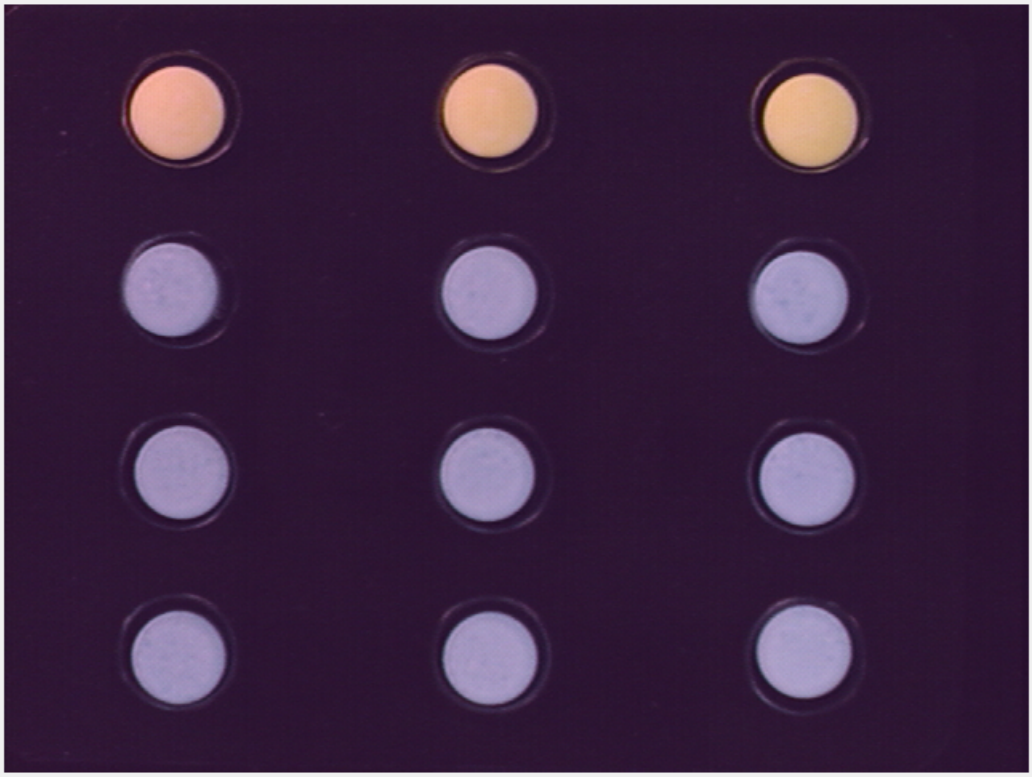


2.

```
imshow(A);
[x,y] = getpts;
```



```
imshow(B);
[x2,y2] = getpts;
```



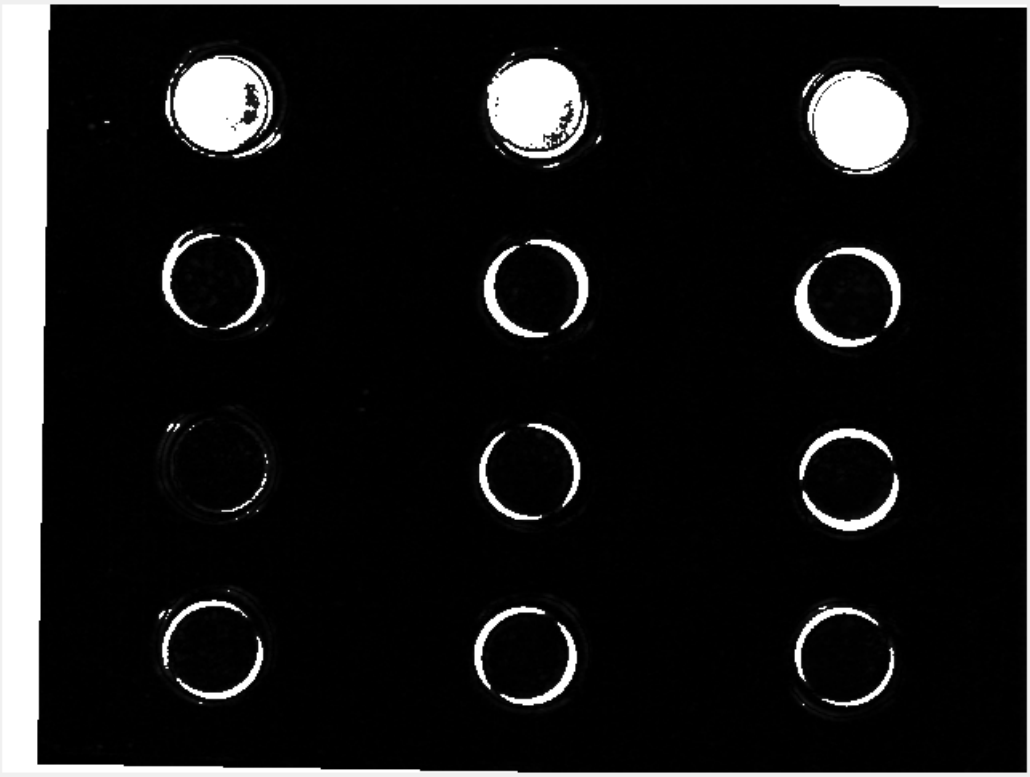
```
tform = fitgeotrans([x2,y2],[x,y],"similarity");
```

3.

```
B_aligned = imwarp(B, tform, 'OutputView', imref2d(size(B)));
```

4.

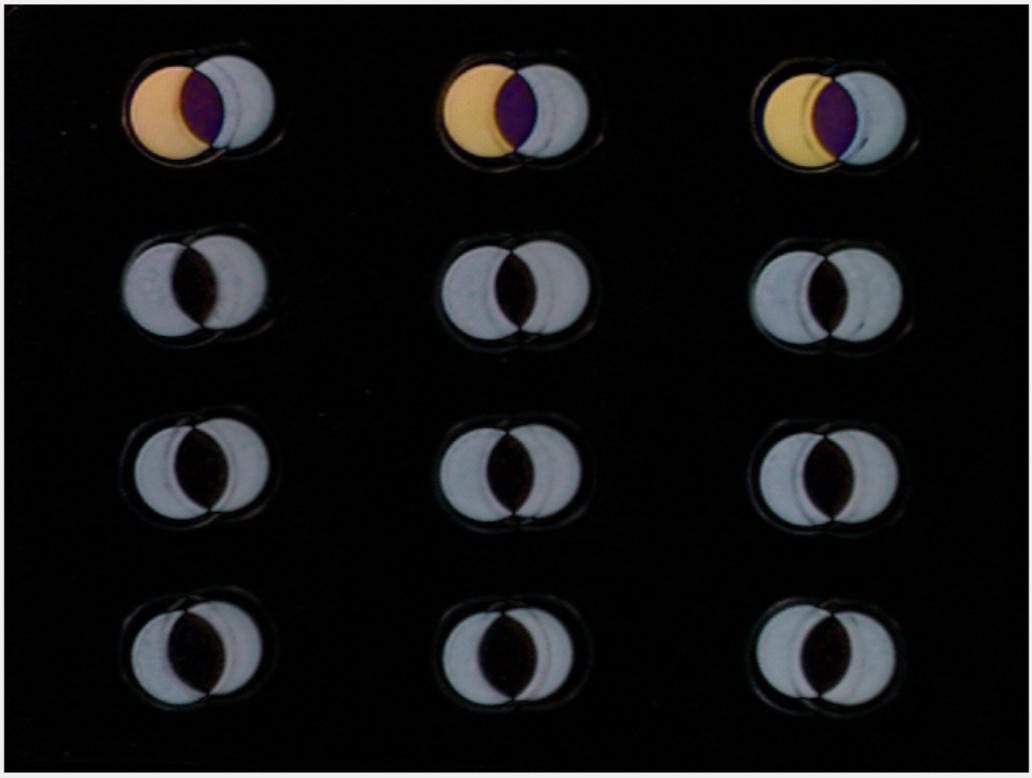
```
D = abs(A-B_aligned);
Dg = rgb2gray(D);
Dg(Dg>0.1) = 1;
imshow(Dg)
```



H1 versió automàtica

1.

```
A = double(imread("Blispac1.tif"))/255;
B = double(imread("Blispac2.tif"))/255;
D = abs(A - B);
imshow(D)
```



2.

```
Ag = rgb2gray(A);
X = medfilt2(Ag,[5,5])>0.5;
X = bwareafilt(X,12);
T = regionprops('table',X,'Centroid'); % cercles centroids
LT = min(T.Centroid);  % coordenades del centre de la pastilla superior esquerre
RB = max(T.Centroid);  % inferior dreta
LB = [LT(1) RB(2)];    % inferior esquerre
RT = [RB(1) LT(2)];    % superior dreta

M = [LT; RB; LB; RT];  % matriu amb els quatre punts fixes

Bg = rgb2gray(B);
Y = medfilt2(Bg,[5,5])>0.5;
Y = bwareafilt(Y,12);
S = regionprops('table',Y,'Centroid'); % cercles centroids
LT = min(S.Centroid);  % coordenades del centre de la pastilla superior esquerre
RB = max(S.Centroid);  % inferior dreta
LB = [LT(1) RB(2)];    % inferior esquerre
RT = [RB(1) LT(2)];    % superior dreta

N = [LT; RB; LB; RT];  % matriu amb els quatre punts a moure
```

```
tform = fitgeotrans(N,M,'similarity');
```

3.

```
B_aligned = imwarp(B,tform,'Outputview',imref2d(size(B)));
```

4.

```
D = abs(A-B_aligned);
Dg = rgb2gray(D);
Dg(Dg>0.1) = 1;
imshow(Dg)
```