Description of the performed steps for each image.

The main operations that were performed are Gaussian Blur, Median filtering, Erosion and Dilation.
Some results of oval selection after these operations are present in the HW3/ovals folder.
In case of multiple oval regions the biggest one was selected assuming that is the face region.

```
open("9-11.jpg");
run("Gaussian Blur...", "sigma=2");
run("Compile and Run...", "compile=HSV_Threshold.java");
run("Erode");
run("Convert to Mask");
run("Erode");
run("Erode");
run("Fill Holes");
run("Analyze Particles...", "  show=Ellipses display clear");
```

```
open("10-11.jpg");
run("Gaussian Blur...", "sigma=2");
run("Median...", "radius=2");
run("Compile and Run...", "compile=HSV_Threshold.java");
run("Convert to Mask");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Median", "radius=3");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Dilate");
run("Dilate");
run("Dilate");
run("Dilate");
run("Dilate");
run("Fill Holes");
run("Dilate");
```

```
open("13-11.jpg");
run("Gaussian Blur...", "sigma=5");
run("Median");
run("Median...", "radius=5");
run("Compile and Run...",
"compile=/Users/macbook/Downloads/ImageJ.app/plugins/HSV_Threshold.java");
run("Fill Holes");
run("Convert to Mask");
run("Fill Holes");
run("Erode");
run("Analyze Particles...", "  show=Ellipses display clear");


open("14-11.jpg");
run("Gaussian Blur...", "sigma=5");
run("Median...", "radius=5");
run("HSV Threshold");
run("Convert to Mask");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Fill Holes");
run("Erode");
run("Erode");
run("Analyze Particles...", "  show=Ellipses display clear");

open("15-11.jpg");
run("Gaussian Blur...", "sigma=5");
run("Median...", "radius=5");
run("HSV Threshold");
run("Convert to Mask");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
run("Erode");
```

```
run("Erode");
run("Erode");
run("Fill Holes");
run("Analyze Particles...", "  show=Ellipses display clear");

open("16-11.jpg");
run("Gaussian Blur...", "sigma=5");
run("Median");
run("Median...", "radius=5");
run("HSV Threshold");
run("Convert to Mask");
run("Fill Holes");
run("Erode");
run("Erode");
run("Analyze Particles...", "  show=Ellipses display clear")
```

Result of oval selection manual and algorithmic:

	Top-Left Coordinate X	**Top-Left Coordinate Y**	**Width**	**Height**		**Top-Left Coordinate X**	**Top-Left Coordinate Y**	**Width**	**Height**
9-11.jpg	199	97	248	286		239	99	168	293
10-11.jpg	227	113	198	255		214	161	208	202
11-11.jpg	237	119	188	233		244	122	171	351
12-11.jpg	233	94	182	252		220	107	214	334
13-11.jpg	232	99	191	250		237	101	186	251
14-11.jpg	223	114	187	260		212	126	221	329
15-11.jpg	232	91	179	255		217	105	207	364
16-11.jpg	217	98	187	265		209	344	189	244

For most of the images the results are nearly close.
The biggest difference is visible for the height of the oval, which is because of the region of the neck.