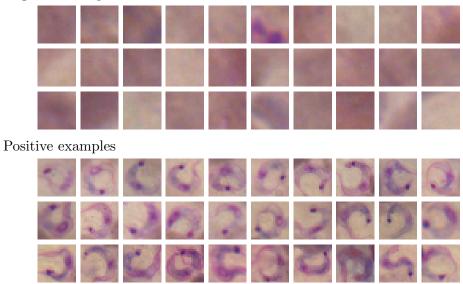
EXERCISE 3

DR. VICTOR UC CETINA

1. Gaussian Discriminant Analysis

(1) Implement the Gaussian Discriminant Analysis model to create a binary classifier for Chagas parasites. There are 60 training examples available, 30 negatives (negatives.zip) and 30 positives (positives.zip). Choose at least 5 features that you consider useful.

Negative examples



- (2) Prepare a report containing your final model (including parameters) and the description of the features you used.
 - 2. Exercise Submission
 - Deadline November 12-14, 2019.

3. Hints

Some useful matlab/octave commands for this exercise:

- To load an image no1.png into variable i
 - i = imread("n01.png")

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- To convert a matrix i of data type unit8 to data type double x = double(i)
- To display an image previously loaded into variable i imshow(i)
- To compute the mean of the red-green-blue components of an image saved as a matrix of doubles x and size is $24 \times 24 \times 3$ m = mean(x,3)