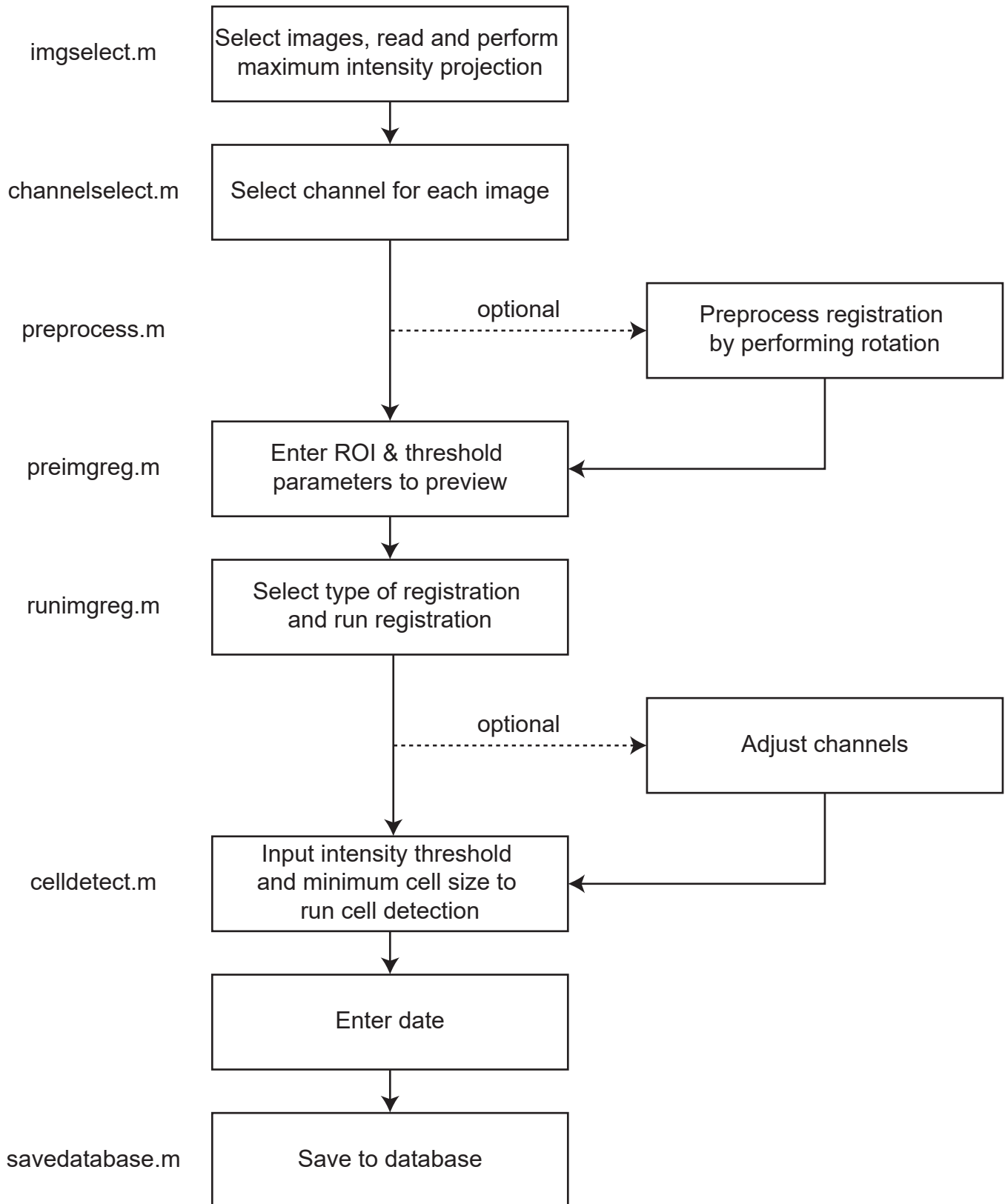


# Flow Chart

## Function List



Function/Feature Name	Description	Responsibility
imgselect.m	Select image file, convert to grayscale image, perform maximum intensity projection, and display image.	Liangyu
channelselect.m	Link scrollbar to multiple channels of image.	Liangyu
preprocess.m	Optional step which allows the user to rotate the image based on mutual information.	Liangyu
preimgreg.m	Takes ROI defined by user and displays a box around specified region. Then takes threshold defined by user and displays a new image.	Jamie
runimgreg.m	Runs multimodal image registration using <i>imregtform</i> (built-in matlab function) to get transformation matrix. This is done using the current displayed channels. The transformation matrix will be applied to all channels of image 2.	Liangyu
celldetect.m	User inputs custom intensity threshold and minimum size of cell and outputs number of cells in each image and the number of overlapping cells for the merged image.	Jamie
savedatabase.m	The database will store the date inputted by the user, the image file names, the number of cells found in each image, and the number of overlapping cells found in the merged image. If no date is specified, the current date will be used.	Jamie