**from** keras.models **import** load\_model

**from** keras.preprocessing **import** image

**import** numpy **as** np

**import** cv2

**import** matplotlib.pyplot **as** plt

Using TensorFlow backend.

In [3]:

model **=** load\_model('weights.hdf5')

model**.**compile(loss**=**'binary\_crossentropy',

optimizer**=**'rmsprop',

metrics**=**['accuracy'])

WARNING:tensorflow:From /home/diwas/.conda/envs/tf/lib/python3.7/site-packages/tensorflow/python/framework/op\_def\_library.py:263: colocate\_with (from tensorflow.python.framework.ops) is deprecated and will be removed in a future version.

Instructions for updating:

Colocations handled automatically by placer.

WARNING:tensorflow:From /home/diwas/.conda/envs/tf/lib/python3.7/site-packages/keras/backend/tensorflow\_backend.py:3445: calling dropout (from tensorflow.python.ops.nn\_ops) with keep\_prob is deprecated and will be removed in a future version.

Instructions for updating:

Please use `rate` instead of `keep\_prob`. Rate should be set to `rate = 1 - keep\_prob`.

WARNING:tensorflow:From /home/diwas/.conda/envs/tf/lib/python3.7/site-packages/tensorflow/python/ops/math\_ops.py:3066: to\_int32 (from tensorflow.python.ops.math\_ops) is deprecated and will be removed in a future version.

Instructions for updating:

Use tf.cast instead.

In [4]:

img **=** image**.**load\_img('cancer/val/Cancer/\_2\_4392.jpeg', target\_size**=**(150, 150))

imgplot **=** plt**.**imshow(img)

x **=** image**.**img\_to\_array(img)

x **=** np**.**expand\_dims(x, axis**=**0)

images **=** np**.**vstack([x])

classes **=** model**.**predict\_classes(images, batch\_size**=**10)

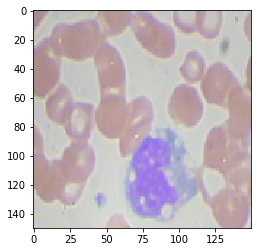
**if** classes **==** [1]:

print("cancer")

**else**:

print("Normal")

cancer



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