

```
!pip install opencv-python
```

```
Requirement already satisfied: opencv-python in /usr/local/lib/python3.10/dist-packages (4.7.0.72)  
Requirement already satisfied: numpy>=1.21.2 in /usr/local/lib/python3.10/dist-packages (from opencv-python) (1.23.5)
```

```
# Load the Drive helper and mount  
from google.colab import drive  
drive.mount('/content/gdrive')
```

```
Mounted at /content/gdrive
```

```
import cv2  
import os
```

```
# Folder path containing the set of images  
images_folder = '/content/gdrive/MyDrive/New_foulder'
```

```
# List all image files in the folder  
image_files = [file for file in os.listdir(images_folder) if file.lower().endswith(('.jpg', '.png'))]
```

```
# Loop through each image file and perform image processing  
for image_file in image_files:
```

```
    # Load the image  
    image_path = os.path.join(images_folder, image_file)  
    image = cv2.imread(image_path)
```

```
    # Convert the image to grayscale  
    gray_image = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
```

```
    # Apply Gaussian blur filter to the grayscale image  
    blurred_image = cv2.GaussianBlur(gray_image, (5, 5), 0)
```

```
    # Display and save the processed image  
    processed_image_path = os.path.join(images_folder, f'processed_{image_file}')
```

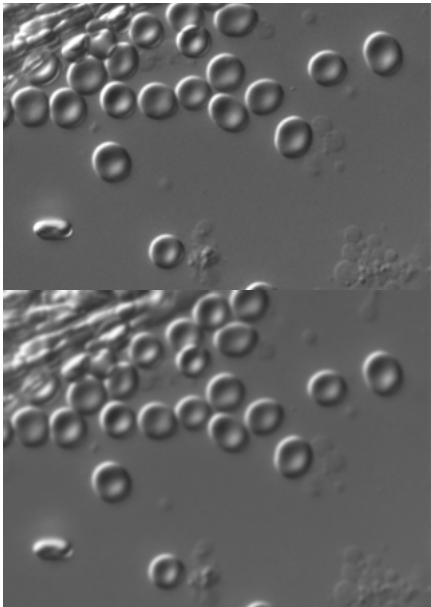
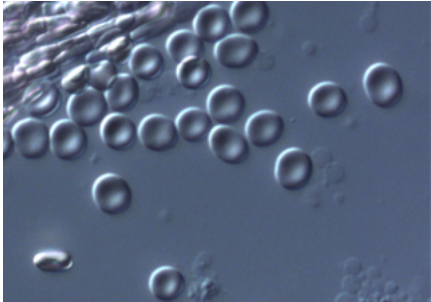
```
    cv2.imwrite(processed_image_path, blurred_image)
```

```
    print(f'Processed: {image_file}')
```

```
print('Image processing completed.')
```

```
📄 Processed: red_blood_cells_nise.jpg  
Processed: humanerythrocyteslarge.jpg  
Processed: red_blood_cells.jpg  
Image processing completed.
```

```
# Display the original and processed images  
cv2.imshow(image)  
cv2.imshow(gray_image)  
cv2.imshow(blurred_image)
```



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