```
!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)
```