Implementando o algoritmo para o método de segmentação Watershed.

```
# Importação das bibliotecas necessárias
import numpy as np
import matplotlib.pyplot as plt
from google.colab import files
from skimage import io, color
from skimage.segmentation import watershed, mark_boundaries
from skimage.feature import peak_local_max
from skimage.filters import sobel
from scipy import ndimage as ndi
import networkx as nx
def upload image():
     ""Solicita ao usuário o upload de uma imagem."""
    uploaded = files.upload()
    for filename in uploaded.keys():
       print(f"Arquivo {filename} carregado com sucesso!")
        return io.imread(filename)
def generate_segments_with_watershed(image):
   Gera segmentos usando a técnica Watershed.
   Parâmetros:
    - image: Imagem de entrada.
   Retorna:
    - segments: Segmentação gerada.
    # Converte a imagem para escala de cinza, se necessário
    if len(image.shape) == 3:
       image_gray = color.rgb2gray(image)
       image_gray = image
    # Aplica o gradiente (borda)
    gradient = sobel(image_gray)
    # Identifica máximos locais para Watershed
   local_maxi = peak_local_max(-gradient, footprint=np.ones((3, 3)), min_distance=20, labels=None)
    mask = np.zeros_like(image_gray, dtype=bool)
   mask[tuple(local_maxi.T)] = True # Converte coordenadas para uma máscara booleana
   # Gera os marcadores para Watershed
   markers, _ = ndi.label(mask)
   # Aplica o Watershed
    segments = watershed(gradient, markers)
    return segments
def build rag manual(image, segments):
    Constrói o Region Adjacency Graph (RAG) manualmente.
   Parâmetros:
    - image: Imagem de entrada.
    - segments: Segmentação gerada.
   Retorna:
   - G: Grafo construído.
   G = nx.Graph()
    # Adiciona os nós ao grafo
    for region in np.unique(segments):
       G.add_node(region)
    # Identifica pixels vizinhos para adicionar arestas
    rows, cols = segments.shape
    for r in range(rows - 1):
        for c in range(cols - 1):
           current = segments[r, c]
            right = segments[r, c + 1]
            down = segments[r + 1, c]
            if current != right:
               G.add_edge(current, right)
            if current != down:
```

```
G.add_edge(current, down)
   return G
def visualize_all(image, segments, rag):
   Exibe três imagens lado a lado:
   1. Segmentos sobrepostos à imagem original.
   2. RAG sobreposto à imagem original.
   3. Segmentos e RAG sobrepostos à imagem original.
   Parâmetros:
    - image: Imagem de entrada.
    - segments: Segmentação gerada.
    - rag: Grafo de Adjacência da Região (RAG).
   fig, ax = plt.subplots(1, 3, figsize=(30, 10))
   # Segmentos sobrepostos
   ax[0].imshow(mark_boundaries(image, segments))
   ax[0].set_title("Segmentos Sobrepostos")
   ax[0].axis("off")
   # RAG sobreposto à imagem
   ax[1].imshow(image)
   pos = \{\}
    for region in np.unique(segments):
       mask = segments == region
       y, x = np.mean(np.argwhere(mask), axis=0)
       pos[region] = (x, y)
   nx.draw(rag, pos, ax=ax[1], node_size=10, edge_color="yellow", node_color="red", with_labels=False)
   ax[1].set_title("RAG Sobreposto à Imagem")
   ax[1].axis("off")
   # Segmentos e RAG juntos
   ax[2].imshow(mark_boundaries(image, segments))
   nx.draw(rag, pos, ax=ax[2], node_size=10, edge_color="yellow", node_color="red", with_labels=False)
    ax[2].set_title("Segmentos e RAG Sobrepostos")
   ax[2].axis("off")
   plt.tight layout()
   plt.show()
# Pipeline Principal
def main():
   print("Faça upload da imagem:")
   image = upload_image()
   # Garantir que a imagem seja RGB
    if len(image.shape) == 2 or image.shape[2] == 1:
       image = color.gray2rgb(image)
   # Geração de Segmentos
   print("Gerando segmentos com Watershed...")
   segments = generate_segments_with_watershed(image)
   # Construção do RAG manualmente
   print("Construindo a RAG manualmente...")
   rag = build_rag_manual(image, segments)
   # Visualização
   print("Visualizando a RAG e os Segmentos...")
    visualize_all(image, segments, rag)
if __name__ == '__main__':
    main()
```

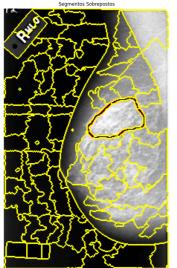
→ Faça upload da imagem:

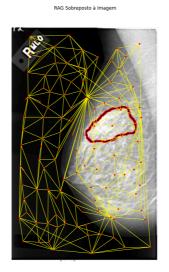
Escolher arquivos Nenhum arquivo escolhido Upload widget is only available when the cell has been executed in the current browser session. Please rerun this

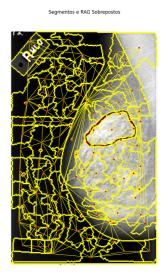
Saving 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia.png to 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia (5).png Arquivo 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia (5).png carregado com sucesso! Gerando segmentos com Watershed...

Construindo a RAG manualmente..

Visualizando a RAG e os Segmentos...







Implementando o algoritmo para o método de segmentação Connected Components.

```
# Importação das bibliotecas necessárias
import numpy as np
import matplotlib.pyplot as plt
from google.colab import files
from skimage import io, color, filters
from skimage.measure import label
from skimage.segmentation import mark_boundaries
import networkx as nx
def upload_image():
    """Solicita ao usuário o upload de uma imagem."""
    uploaded = files.upload()
    for filename in uploaded.keys():
       print(f"Arquivo {filename} carregado com sucesso!")
        return io.imread(filename)
{\tt def \ generate\_segments\_with\_connected\_components(image, \ threshold=0.5):}
    Gera segmentos usando o método de Componentes Conectados.
    - image: Imagem de entrada.
    - threshold: Limiar para binarização (0 a 1).
    Retorna:
    - segments: Segmentos gerados.
    # Converte a imagem para escala de cinza
    if len(image.shape) == 3:
        image_gray = color.rgb2gray(image)
```

```
else:
       image grav = image
    # Aplica o limiar à imagem
   binary = image_gray > filters.threshold_otsu(image_gray) * threshold
   # Gera os componentes conectados
   segments = label(binary)
   return segments
def build_rag_manual(image, segments):
   Constrói o Region Adjacency Graph (RAG) manualmente.
   Parâmetros:
    - image: Imagem de entrada.
    - segments: Segmentos gerados.
   Retorna:
    - G: Grafo construído.
   G = nx.Graph()
   # Adiciona os nós ao grafo
    for region in np.unique(segments):
       G.add node(region)
   # Identifica pixels vizinhos para adicionar arestas
    rows, cols = segments.shape
    for r in range(rows - 1):
        for c in range(cols - 1):
           current = segments[r, c]
           right = segments[r, c + 1]
           down = segments[r + 1, c]
            if current != right:
               G.add_edge(current, right)
            if current != down:
               G.add_edge(current, down)
    return G
def visualize all(image, segments, rag):
   Exibe três imagens lado a lado:
   1. Segmentos sobrepostos à imagem original.
   2. RAG sobreposto à imagem original.
   3. Segmentos e RAG sobrepostos à imagem original.
   Parâmetros:
   - image: Imagem de entrada.
    - segments: Segmentos gerados.
    - rag: Grafo de Adjacência da Região (RAG).
    fig, ax = plt.subplots(1, 3, figsize=(30, 10))
   # Segmentos sobrepostos
    ax[0].imshow(mark_boundaries(image, segments))
   ax[0].set_title("Segmentos Sobrepostos")
    ax[0].axis("off")
   # RAG sobreposto à imagem
   ax[1].imshow(image)
   pos = \{\}
    for region in np.unique(segments):
       mask = segments == region
       y, x = np.mean(np.argwhere(mask), axis=0)
       pos[region] = (x, y)
    nx.draw(rag, pos, ax=ax[1], node_size=10, edge_color="yellow", node_color="red", with_labels=False)
    ax[1].set_title("RAG Sobreposto à Imagem")
   ax[1].axis("off")
   # Segmentos e RAG juntos
   ax[2].imshow(mark_boundaries(image, segments))
   nx.draw(rag, pos, ax=ax[2], node_size=10, edge_color="yellow", node_color="red", with_labels=False)
   ax[2].set_title("Segmentos e RAG Sobrepostos")
   ax[2].axis("off")
    plt.tight_layout()
    plt.show()
# Pipeline Principal
```

```
print("Faça upload da imagem:")
   image = upload image()
    # Garantir que a imagem seja RGB
   if len(image.shape) == 2 or image.shape[2] == 1:
       image = color.gray2rgb(image)
   # Geração de Segmentos
   print("Gerando segmentos com Componentes Conectados...")
   segments = generate_segments_with_connected_components(image, threshold=0.5)
    # Construção do RAG manualmente
   print("Construindo a RAG manualmente...")
   rag = build_rag_manual(image, segments)
   # Visualização
   print("Visualizando a RAG e os Segmentos...")
   visualize_all(image, segments, rag)
if __name__ == '__main__':
    main()
```

## → Faça upload da imagem:

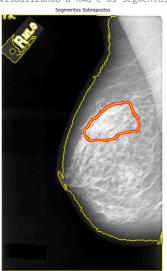
Escolher arquivos Nenhum arquivo escolhido Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable

Saving 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia.png to 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia (6).png Arquivo 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia (6).png carregado com sucesso!

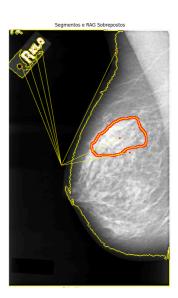
Gerando segmentos com Componentes Conectados...

Construindo a RAG manualmente...

Visualizando a RAG e os Segmentos...







Instalando a biblioteca para análise da quantidade de mamória usada pelos algoritmos processarem as segmentações.

```
!pip install memory_profiler
```

```
Collecting memory_profiler

Downloading memory_profiler-0.61.0-py3-none-any.whl.metadata (20 kB)

Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from memory_profiler) (5.9.5)

Downloading memory_profiler-0.61.0-py3-none-any.whl (31 kB)
```

```
Installing collected packages: memory_profiler
     Successfully installed memory_profiler-0.61.0
import numpy as np
import time
from skimage import io, color
from skimage.segmentation import slic, felzenszwalb, watershed
from skimage.measure import label
from skimage import filters
from tabulate import tabulate
from google.colab import files
from memory_profiler import memory_usage
def upload_image():
    """Solicita ao usuário o upload de uma imagem."""
   uploaded = files.upload()
    for filename in uploaded.keys():
       print(f"Arquivo {filename} carregado com sucesso!")
        return io.imread(filename)
{\tt def measure\_time\_and\_memory(func,\ *args,\ **kwargs):}
    Mede o tempo de execução e o uso de memória de uma função.
   # Medir tempo de execução
   start time = time.time()
    # Medir uso de memória durante a execução
   mem_usage = memory_usage((func, args, kwargs), interval=0.1) # interval ajustado
   # Executar a função
   result = func(*args, **kwargs)
   # Medir tempo de execução
   end_time = time.time()
   execution_time = end_time - start_time
   # Encontrar o pico de memória usado (em MB)
   max_mem_usage = max(mem_usage) / 1024 # Convertendo para MB
    # Retornar o resultado, tempo de execução e memória usada (em MB)
    return result, execution_time, max_mem_usage
def generate_slic(image, n_segments=200, compactness=10):
    Gera superpixels usando a técnica SLIC.
    segments = slic(image, n_segments=n_segments, compactness=compactness, start_label=1)
    return segments
def generate_felzenszwalb(image):
    Gera superpixels usando o algoritmo de Felzenszwalb.
    segments = felzenszwalb(image, scale=100, sigma=0.5, min_size=50)
    return segments
def generate_watershed(image):
    Gera superpixels usando o algoritmo Watershed.
    # Gerar o gradiente da imagem
    gradient = filters.sobel(image)
   # Identificar os máximos locais
   markers = label(gradient < 0.1)</pre>
   # Gerar os segmentos usando o Watershed
    segments = watershed(gradient, markers)
    return segments
def generate_connected_components(image):
    Gera componentes conectados usando o algoritmo de Connected Components.
   # Convertendo a imagem para escala de cinza e binarizando
    gray_image = color.rgb2gray(image)
   binary_image = gray_image > 0.5 # Threshold para binarização
    # Encontrar os componentes conectados
    labeled_image = label(binary_image)
    return labeled_image
```

```
def main():
       print("Faça upload da imagem:")
       image = upload_image()
      # Garantir que a imagem seja RGB
      if len(image.shape) == 2 or image.shape[2] == 1:
              image = color.gray2rgb(image)
       # Medir tempo e memória para SLIC
       print("Gerando superpixels com SLIC...")
       _, slic_time, slic_memory = measure_time_and_memory(generate_slic, image, n_segments=300, compactness=20)
       # Medir tempo e memória para Felzenszwalb
       print("Gerando superpixels com Felzenszwalb...")
       _, felzenszwalb_time, felzenszwalb_memory = measure_time_and_memory(generate_felzenszwalb, image)
       # Medir tempo e memória para Watershed
      print("Gerando superpixels com Watershed...")
       _, watershed_time, watershed_memory = measure_time_and_memory(generate_watershed, image)
      # Medir tempo e memória para Connected Components
       print("Gerando superpixels com Connected Components...")
       , connected components time, connected components memory = measure time and memory(generate connected components, image)
       # Exibir a tabela de resultados
       table = [
              ["SLIC", slic_time, slic_memory],
              ["Felzenszwalb", felzenszwalb_time, felzenszwalb_memory],
              ["Watershed", watershed_time, watershed_memory],
              ["Connected Components", connected_components_time, connected_components_memory]
       headers = ["Método", "Tempo (segundos)", "Memória (MB)"]
       print(tabulate(table, headers=headers, tablefmt="pretty"))
if __name__ == '__main__':
       main()
      Faça upload da imagem:
        Escolher arquivos Nenhum arquivo escolhido Upload widget is only available when the cell has been executed in the current browser session. Please rerun this
        cell to enable
         Saving \ 1\_C\_0001\_1.RIGHT\_MLO.LJPEG.1\_highpass \ - \ Copia.png \ to \ 1\_C\_0001\_1.RIGHT\_MLO.
        Arquivo 1_C_0001_1.RIGHT_MLO.LJPEG.1_highpass - Copia (1).png carregado com sucesso!
        Gerando superpixels com SLIC...
        Gerando superpixels com Felzenszwalb...
        Gerando superpixels com Watershed...
        Gerando superpixels com Connected Components...
                       Método
                                               Tempo (segundos) | Memória (MB)
                                                 0.44673919677734375 | 0.6839561462402344
                       SLIC
                                                 0.48841381072998047 | 0.7021217346191406
                  Felzenszwalb
                                                 | 0.41265225410461426 | 0.7007484436035156
| 0.40787392616271973 | 0.684/062805175781
                    Watershed
import numpy as np
import time
from skimage import io, color
from skimage.segmentation import slic, felzenszwalb, watershed
from skimage.measure import label
from skimage import filters
from tabulate import tabulate
from google.colab import files
from memory_profiler import memory_usage
def upload_image():
       """Solicita ao usuário o upload de uma imagem."""
       uploaded = files.upload()
       for filename in uploaded.keys():
            print(f"Arquivo {filename} carregado com sucesso!")
             return io.imread(filename)
def measure_time_and_memory(func, *args, **kwargs):
       Mede o tempo de execução e o uso de memória de uma função.
       # Medir tempo de execução
       start time = time.time()
       # Medir uso de memória durante a execução
       mem_usage = memory_usage((func, args, kwargs), interval=0.1) # interval ajustado
       # Executar a função
```

```
result = func(*args, **kwargs)
   # Medir tempo de execução
    end_time = time.time()
   execution_time = end_time - start_time
    # Encontrar o pico de memória usado (em MB)
    max_mem_usage = max(mem_usage) / 1024 # Convertendo para MB
    # Retornar o resultado, tempo de execução e memória usada (em MB)
    return result, execution_time, max_mem_usage
def generate_slic(image, n_segments=200, compactness=10):
    Gera superpixels usando a técnica SLIC.
    segments = slic(image, n_segments=n_segments, compactness=compactness, start_label=1)
    return segments
def generate_felzenszwalb(image):
    Gera superpixels usando o algoritmo de Felzenszwalb.
    segments = felzenszwalb(image, scale=100, sigma=0.5, min_size=50)
    return segments
def generate_watershed(image):
    Gera superpixels usando o algoritmo Watershed.
    # Gerar o gradiente da imagem
    gradient = filters.sobel(image)
   # Identificar os máximos locais
   markers = label(gradient < 0.1)</pre>
   # Gerar os segmentos usando o Watershed
   segments = watershed(gradient, markers)
    return segments
def generate connected components(image):
    Gera componentes conectados usando o algoritmo de Connected Components.
    # Convertendo a imagem para escala de cinza e binarizando
    gray_image = color.rgb2gray(image)
   binary_image = gray_image > 0.5 # Threshold para binarização
   # Encontrar os componentes conectados
    labeled_image = label(binary_image)
   return labeled_image
def main():
   print("Faça upload da imagem:")
    image = upload_image()
   # Garantir que a imagem seja RGB
    if len(image.shape) == 2 or image.shape[2] == 1:
       image = color.gray2rgb(image)
    # Medir tempo e memória para SLIC
    print("Gerando superpixels com SLIC...")
    _, slic_time, slic_memory = measure_time_and_memory(generate_slic, image, n_segments=300, compactness=20)
    # Medir tempo e memória para Felzenszwalb
    print("Gerando superpixels com Felzenszwalb...")
    _, felzenszwalb_time, felzenszwalb_memory = measure_time_and_memory(generate_felzenszwalb, image)
    # Medir tempo e memória para Watershed
   print("Gerando superpixels com Watershed...")
    _, watershed_time, watershed_memory = measure_time_and_memory(generate_watershed, image)
   # Medir tempo e memória para Connected Components
   print("Gerando superpixels com Connected Components...")
    \verb|-----| , connected_components_time, connected_components_memory = measure_time_and_memory(generate_connected_components, image) \\
    # Exibir a tabela de resultados
   table = [
        ["SLIC", slic_time, slic_memory],
        ["Felzenszwalb", felzenszwalb\_time, felzenszwalb\_memory],\\
        ["Watershed", watershed_time, watershed_memory],
        ["Connected Components", connected_components_time, connected_components_memory]
```

```
]
headers = ["Método", "Tempo (segundos)", "Memória (MB)"]
print(tabulate(table, headers=headers, tablefmt="pretty"))

if __name__ == '__main__':
    main()
```

```
Wagner LopesCardozo TrabalhoFinal.ipynb - Colab
→ Faça upload da imagem:
       Escolher arquivos Nenhum arquivo escolhido Upload widget is only available when the cell has been executed in the current browser session. Please rerun this
       cell to enable
       Saving 1_C_0001_1.RIGHT_MLO.LJPEG.1_highpass - Copia.png to 1_C_0001_1.RIGHT_MLO.LJPEG.1_highpass - Copia (2).png
       Saving 1_C_0001_1.RIGHT_MLO.LJPEG.1_highpass.png to 1_C_0001_1.RIGHT_MLO.LJPEG.1_highpass (1).png
       Saving 2_C_0001_1.LEFT_MLO.LJPEG.1_highpass.png to 2_C_0001_1.LEFT_MLO.LJPEG.1_highpass.png
                         _0001_1.RIGHT_CC.LJPEG.1_highpass - Copia.png to 3_C_0001_1.RIGHT_CC.LJPEG.1_highpass - Copia.png
       Saving 3_C_0001_1.RIGHT_CC.LJPEG.1_highpass.png to 3_C_0001_1.RIGHT_CC.LJPEG.1_highpass.png
       Saving 4_C_0001_1.LEFT_CC.LJPEG.1_highpass.png to 4_C_0001_1.LEFT_CC.LJPEG.1_highpass.png
       Saving 5_C_0002_1.RIGHT_MLO.LJPEG.1_highpass.png to 5_C_0002_1.RIGHT_MLO.LJPEG.1_highpass.png
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       Saving 6_{-0002}_{-1.LEFT\_MLO.LJPEG.1\_highpass.png} to 6_{-0002}_{-1.LEFT\_MLO.LJPEG.1\_highpass.png}
       Saving 7_C_0002_1.RIGHT_CC.LJPEG.1_highpass.png to 7_C_0002_1.RIGHT_CC.LJPEG.1_highpass.png
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       Saving 8_C_0002_1.LEFT_CC.LJPEG.1_highpass.png to 8_C_0002_1.LEFT_CC.LJPEG.1_highpass.png
       Saving 9_C_0003_1.RIGHT_MLO.LJPEG.1_highpass - Copia.png to 9_C_0003_1.RIGHT_MLO.LJPEG.1_highpass - Copia.png
       Saving 9_C_0003_1.RIGHT_MLO.LJPEG.1_highpass.png to 9_C_0003_1.RIGHT_MLO.LJPEG.1_highpass.png
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       Saving 12_C_0003_1.LEFT_CC.LJPEG.1_highpass.png to 12_C_0003_1.LEFT_CC.LJPEG.1_highpass.png
        Saving \ 13\_C\_0004\_1.RIGHT\_MLO.LJPEG.1\_highpass - Copia.png \ to \ 13\_C
       Saving 13\_C\_0004\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 13\_C\_0004\_1.RIGHT\_MLO.LJPEG.1\_highpass.png
       Saving 14\_C\_0004\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 14\_C\_0004\_1.LEFT\_MLO.LJPEG.1\_highpass.png
       Saving 15_C_0004_1.RIGHT_CC.LJPEG.1_highpass - Copia.png to 15_C_0004_1.RIGHT_CC.LJPEG.1_highpass - Copia.png
       Saving 15\_C\_0004\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 15\_C\_0004\_1.RIGHT\_CC.LJPEG.1\_highpass.png
       Saving 16__0004_1.LEFT_CC.LJPEG.1_highpass.png to 16__0004_1.LEFT_CC.LJPEG.1_highpass.png
Saving 17_C_0006_1.RIGHT_MLO.LJPEG.1_highpass - Copia.png to 17_C_0006_1.RIGHT_MLO.LJPEG.1_highpass - Copia.png
       Saving 17_C_0006_1.RIGHT_MLO.LJPEG.1_highpass.png to 17_C_0006_1.RIGHT_MLO.LJPEG.1_highpass.png
       Saving 18_C_0006_1.LEFT_MLO.LJPEG.1_highpass.png to 18_C_0006_1.LEFT_MLO.LJPEG.1_highpass.png
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       Saving 23_C_0007_1.RIGHT_CC.LJPEG.1_highpass.png to 23_C_0007_1.RIGHT_CC.LJPEG.1_highpass.png
       Saving 24\_C\_0007\_1.LEFT\_CC.LJPEG.1\_highpass.png to 24\_C\_0007\_1.LEFT\_CC.LJPEG.1\_highpass.png
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       Saving 37_C_0012_1.RIGHT_MLO.LJPEG.1_highpass.png to 37_C_0012_1.RIGHT_MLO.LJPEG.1_highpass.png
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      Saving 40_C_0012_1.LEFT_CC.LJPEG.1_highpass.png to 40_C_0012_1.LEFT_CC.LJPEG.1_highpass.png Saving 41_C_0014_1.RIGHT_MLO.LJPEG.1_highpass.png to 41_C_0014_1.RIGHT_MLO.LJPEG.1_highpass.png Saving 42_C_0014_1.LEFT_MLO.LJPEG.1_highpass.png to 42_C_0014_1.LEFT_MLO.LJPEG.1_highpass.png
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       Saving 66\_B\_3001\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 66\_B\_3001\_1.LEFT\_MLO.LJPEG.1\_highpass.png
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       Saving 72_B_3003_1.LEFT_CC.LJPEG.1_highpass.png to 72_B_3003_1.LEFT_CC.LJPEG.1_highpass.png
       Saving \ 73\_B\_3005\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ to \ 73\_B\_3005\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \\
       Saving 74_B_3005_1.LEFT_MLO.LJPEG.1_highpass.png to 74_B_3005_1.LEFT_MLO.LJPEG.1_highpass.png
       Saving 75_B_3005_1.RIGHT_CC.LJPEG.1_highpass.png to 75_B_3005_1.RIGHT_CC.LJPEG.1_highpass.png
       Saving 76_B_3005_1.LEFT_CC.LJPEG.1_highpass.png to 76_B_3005_1.LEFT_CC.LJPEG.1_highpass.png
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Saving  $77\_B\_3007\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $77\_B\_3007\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving  $78\_B\_3007\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $78\_B\_3007\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 79 B 3007 1.RIGHT CC.LJPEG.1 highpass.png to 79 B 3007 1.RIGHT CC.LJPEG.1 highpass.png

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Saving 80_B_3007_1.LEFT_CC.LJPEG.1_highpass.png to 80_B_3007_1.LEFT_CC.LJPEG.1_highpass.png
Saving 81_B_3008_1.RIGHT_MLO.LJPEG.1_highpass.png to 81_B_3008_1.RIGHT_MLO.LJPEG.1_highpass.png
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Saving 169_B_3042_1.RIGHT_MLO.LJPEG.1_highpass.png to 169_B_3042_1.RIGHT_MLO.LJPEG.1_highpass.png
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Saving 1/0\_B\_3044\_1.LEF1\_MLU.LJYEG.1\_nignpass.png to 1/0\_B\_3044\_1.LEF1\_MLU.LJYEG.1\_nignpass.png Saving  $171\_B\_3042\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $171\_B\_3042\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving  $172\_B\_3042\_1.LEFT\_CC.LJPEG.1\_highpass.png$  to  $172\_B\_3042\_1.LEFT\_CC.LJPEG.1\_highpass.png$ Saving 173\_B\_3044\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 173\_B\_3044\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $174\_B\_3044\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $174\_B\_3044\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 175\_B\_3044\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 175\_B\_3044\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 176\_B\_3044\_1.LEFT\_CC.LJPEG.1\_highpass.png to 176\_B\_3044\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 177\_B\_3045\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 177\_B\_3045\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 178\_B\_3045\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 178\_B\_3045\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 179\_B\_3045\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 179\_B\_3045\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 180\_B\_3045\_1.LEFT\_CC.LJPEG.1\_highpass.png to 180\_B\_3045\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving  $181\_B\_3046\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $181\_B\_3046\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving 182\_B\_3046\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 182\_B\_3046\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving  $183\_B\_3046\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $183\_B\_3046\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving 184\_B\_3046\_1.LEFT\_CC.LJPEG.1\_highpass.png to 184\_B\_3046\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 185\_B\_3047\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 185\_B\_3047\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 186\_B\_3047\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 186\_B\_3047\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 187\_B\_3047\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 187\_B\_3047\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 188\_B\_3047\_1.LEFT\_CC.LJPEG.1\_highpass.png to 188\_B\_3047\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 189\_B\_3049\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 189\_B\_3049\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 190\_B\_3049\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 190\_B\_3049\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving  $191\_B\_3049\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $191\_B\_3049\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving 192\_B\_3049\_1.LEFT\_CC.LJPEG.1\_highpass.png to 192\_B\_3049\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving  $193\_B\_3051\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $193\_B\_3051\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving  $194\_B\_3051\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $194\_B\_3051\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving  $195\_B\_3051\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $195\_B\_3051\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving 196\_B\_3051\_1.LEFT\_CC.LJPEG.1\_highpass.png to 196\_B\_3051\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 197\_B\_3055\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 197\_B\_3055\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 198\_B\_3055\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 198\_B\_3055\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 199 B 3055 1.RIGHT CC.LJPEG.1 highpass.png to 199 B 3055 1.RIGHT CC.LJPEG.1 highpass.png Saving 200\_B\_3055\_1.LEFT\_CC.LJPEG.1\_highpass.png to 200\_B\_3055\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 201\_B\_3057\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 201\_B\_3057\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 202\_B\_3057\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 202\_B\_3057\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 203\_B\_3057\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 203\_B\_3057\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 204\_B\_3057\_1.LEFT\_CC.LJPEG.1\_highpass.png to 204\_B\_3057\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 205\_B\_3058\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 205\_B\_3058\_1.RIGH Saving 206\_B\_3058\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 206\_B\_3058\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 207\_B\_3058\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 207\_B\_3058\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 208\_B\_3058\_1.LEFT\_CC.LJPEG.1\_highpass.png to 208\_B\_3058\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 209\_B\_3059\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 209\_B\_3059\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 210\_B\_3059\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 210\_B\_3059\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 211\_B\_3059\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 211\_B\_3059\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 212\_B\_3059\_1.LEFT\_CC.LJPEG.1\_highpass.png to 212\_B\_3059\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 213\_B\_3062\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 213\_B\_3062\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $214\_B\_3062\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $214\_B\_3062\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 215\_B\_3062\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 215\_B\_3062\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving  $216\_B\_3062\_1.LEFT\_CC.LJPEG.1\_highpass.png$  to  $216\_B\_3062\_1.LEFT\_CC.LJPEG.1\_highpass.png$ Saving  $217\_B\_3064\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $217\_B\_3064\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving 218\_B\_3064\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 218\_B\_3064\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 219\_B\_3064\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 219\_B\_3064\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 220\_B\_3064\_1.LEFT\_CC.LJPEG.1\_highpass.png to 220\_B\_3064\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 221\_B\_3065\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 221\_B\_3065\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 222\_B\_3065\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 222\_B\_3065\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 223\_B\_3065\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 223\_B\_3065\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 224\_B\_3065\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 225\_B\_3066\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 225\_B\_3066\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 226\_B\_3066\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 226\_B\_3066\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 227\_B\_3066\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 227\_B\_3066\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 228\_B\_3066\_1.LEFT\_CC.LJPEG.1\_highpass.png to 228\_B\_3066\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 229\_B\_3068\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 229\_B\_3068\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 230\_B\_3068\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 230\_B\_3068\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving  $231\_B\_3068\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $231\_B\_3068\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving 232\_B\_3068\_1.LEFT\_CC.LJPEG.1\_highpass.png to 232\_B\_3068\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 233\_B\_3071\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 233\_B\_3071\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 234\_B\_3071\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 234\_B\_3071\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 235\_B\_3071\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 235\_B\_3071\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 236\_B\_3071\_1.LEFT\_CC.LJPEG.1\_highpass.png to 236\_B\_3071\_1.LEFT\_CC.LJPEG.1\_highpass.png are considered as a superscript of the constant Saving 237\_B\_3072\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 237\_B\_3072\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $238\_B\_3072\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $238\_B\_3072\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 239\_B\_3072\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 239\_B\_3072\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 240\_B\_3072\_1.LEFT\_CC.LJPEG.1\_highpass.png to 240\_B\_3072\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 241\_B\_3073\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 241\_B\_3073\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 242\_B\_3073\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 242\_B\_3073\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 243\_B\_3073\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 243\_B\_3073\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 244\_B\_3073\_1.LEFT\_CC.LJPEG.1\_highpass.png to 244\_B\_3073\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 245\_B\_3076\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 245\_B\_3076\_1.RIGH Saving  $246\_B\_3076\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $246\_B\_3076\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 247\_B\_3076\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 247\_B\_3076\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 248\_B\_3076\_1.LEFT\_CC.LJPEG.1\_highpass.png to 248\_B\_3076\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving  $249\_B\_3079\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $249\_B\_3079\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving 250\_B\_3079\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 250\_B\_3079\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 251\_B\_3079\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 251\_B\_3079\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 252\_B\_3079\_1.LEFT\_CC.LJPEG.1\_highpass.png to 252\_B\_3079\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 253\_B\_3080\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 253\_B\_3080\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $254\_B\_3080\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $254\_B\_3080\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 255\_B\_3080\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 255\_B\_3080\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 256\_B\_3080\_1.LEFT\_CC.LJPEG.1\_highpass.png to 256\_B\_3080\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 257\_B\_3081\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 257\_B\_3081\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $258\_B\_3081\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $258\_B\_3081\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving 259\_B\_3081\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 259\_B\_3081\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 260 B 3081 1.LEFT CC.LJPEG.1 highpass.png to 260 B 3081 1.LEFT CC.LJPEG.1 highpass.png

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Saving 261_B_3082_1.RIGHT_MLO.LJPEG.1_highpass.png to 261_B_3082_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 262_B_3082_1.LEFT_MLO.LJPEG.1_highpass.png to 262_B_3082_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 263_B_3082_1.RIGHT_CC.LJPEG.1_highpass.png to 263_B_3082_1.RIGHT_CC.LJPEG.1_highpass.png Saving 264_B_3082_1.LEFT_CC.LJPEG.1_highpass.png to 264_B_3082_1.LEFT_CC.LJPEG.1_highpass.png
Saving \ 265\_B\_3083\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ to \ 265\_B\_3083\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ 
Saving 266\_B\_3083\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 266\_B\_3083\_1.LEFT\_MLO.LJPEG.1\_highpass.png
Saving 267_B_3083_1.RIGHT_CC.LJPEG.1_highpass.png to 267_B_3083_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 268_B_3083_1.LEFT_CC.LJPEG.1_highpass.png to 268_B_3083_1.LEFT_CC.LJPEG.1_highpass.png
Saving 269_B_3084_1.RIGHT_MLO.LJPEG.1_highpass.png to 269_B_3084_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 270\_B\_3084\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 270\_B\_3084\_1.LEFT\_MLO.LJPEG.1\_highpass.png
Saving 271_B_3084_1.RIGHT_CC.LJPEG.1_highpass.png to 271_B_3084_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 272_B_3084_1.LEFT_CC.LJPEG.1_highpass.png to 272_B_3084_1.LEFT_CC.LJPEG.1_highpass.png
Saving 273_C_0018_1.RIGHT_MLO.LJPEG.1_highpass.png to 273_C_0018_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 274_C_0018_1.LEFT_MLO.LJPEG.1_highpass.png to 274_C_0018_1.LEFT_MLO.LJPEG.1_highpass.png Saving 275_C_0018_1.RIGHT_CC.LJPEG.1_highpass.png to 275_C_0018_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 276\_C\_0018\_1.LEFT\_CC.LJPEG.1\_highpass.png to 276\_C\_0018\_1.LEFT\_CC.LJPEG.1\_highpass.png
 \label{thm:condition} {\tt Saving 277\_C\_0022\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 277\_C\_0022\_1.RIGHT\_MLO.LJPEG.1\_highpa
Saving 278_C_0022_1.LEFT_MLO.LJPEG.1_highpass.png to 278_C_0022_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 279_C_0022_1.RIGHT_CC.LJPEG.1_highpass.png to 279_C_0022_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 280\_C\_0022\_1.LEFT\_CC.LJPEG.1\_highpass.png to 280\_C\_0022\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 281_C_0023_1.RIGHT_MLO.LJPEG.1_highpass.png to 281_C_0023_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 282_C_0023_1.LEFT_MLO.LJPEG.1_highpass.png to 282_C_0023_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 283_C_0023_1.RIGHT_CC.LJPEG.1_highpass.png to 283_C_0023_1.RIGHT_CC.LJPEG.1_highpass.png
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Saving 285_C_0025_1.RIGHT_MLO.LJPEG.1_highpass.png to 285_C_0025_1.RIGHT_MLO.LJPEG.1_highpass.png Saving 286_C_0025_1.LEFT_MLO.LJPEG.1_highpass.png to 286_C_0025_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 287_C_0025_1.RIGHT_CC.LJPEG.1_highpass.png to 287_C_0025_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 288\_C\_0025\_1.LEFT\_CC.LJPEG.1\_highpass.png to 288\_C\_0025\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving \ 289\_C\_0027\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ to \ 289\_C\_0027\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ 
Saving 290\_C\_0027\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 290\_C\_0027\_1.LEFT\_MLO.LJPEG.1\_highpass.png
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Saving 296_C_0028_1.LEFT_CC.LJPEG.1_highpass.png to 296_C_0028_1.LEFT_CC.LJPEG.1_highpass.png Saving 297_C_0032_1.RIGHT_MLO.LJPEG.1_highpass.png to 297_C_0032_1.RIGHT_MLO.LJPEG.1_highpass.png to 298_C_0032_1.LEFT_MLO.LJPEG.1_highpass.png to 298_C_0032_1.LEFT_MLO.LJPEG.1_highpass.png
 Saving \ 299\_C\_0032\_1.RIGHT\_CC.LJPEG.1\_highpass.png \ to \ 299\_C\_0032\_1.RIGHT\_CC.LJPEG.1\_high
Saving 300\_C\_0032\_1.LEFT\_CC.LJPEG.1\_highpass.png to 300\_C\_0032\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 301_C_0034_1.RIGHT_MLO.LJPEG.1_highpass.png to 301_C_0034_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 302_C_0034_1.LEFT_MLO.LJPEG.1_highpass.png to 302_C_0034_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 303_C_0034_1.RIGHT_CC.LJPEG.1_highpass.png to 303_C_0034_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 304\_C\_0034\_1.LEFT\_CC.LJPEG.1\_highpass.png to 304\_C\_0034\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 305_C_0035_1.RIGHT_MLO.LJPEG.1_highpass.png to 305_C_0035_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 306_C_0035_1.LEFT_MLO.LJPEG.1_highpass.png to 306_C_0035_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 307_C_0035_1.RIGHT_CC.LJPEG.1_highpass.png to 307_C_0035_1.RIGHT_CC.LJPEG.1_highpass.png Saving 308_C_0035_1.LEFT_CC.LJPEG.1_highpass.png
Saving 310\_C\_0036\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 310\_C\_0036\_1.LEFT\_MLO.LJPEG.1\_highpass.png
Saving 311\_C\_0036\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 311\_C\_0036\_1.RIGHT\_CC.LJPEG.1\_highpass.png
Saving 312\_C\_0036\_1.LEFT\_CC.LJPEG.1\_highpass.png to 312\_C\_0036\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 313_C_0037_1.RIGHT_MLO.LJPEG.1_highpass.png to 313_C_0037_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 314_C_0037_1.LEFT_MLO.LJPEG.1_highpass.png to 314_C_0037_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 315_C_0037_1.RIGHT_CC.LJPEG.1_highpass.png to 315_C_0037_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 316_C_0037_1.LEFT_CC.LJPEG.1_highpass.png to 316_C_0037_1.LEFT_CC.LJPEG.1_highpass.png Saving 317_C_0038_1.RIGHT_MLO.LJPEG.1_highpass.png to 317_C_0038_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 318_C_0038_1.LEFT_MLO.LJPEG.1_highpass.png to 318_C_0038_1.LEFT_MLO.LJPEG.1_highpass.png Saving 319_C_0038_1.RIGHT_CC.LJPEG.1_highpass.png to 319_C_0038_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 320\_C\_0038\_1.LEFT\_CC.LJPEG.1\_highpass.png to 320\_C\_0038\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 321_C_0040_1.RIGHT_MLO.LJPEG.1_highpass.png to 321_C_0040_1.RIGHT_MLO.LJPEG.1_highpass.png
 Saving \ 322\_C\_0040\_1.LEFT\_MLO.LJPEG.1\_highpass.png \ to \ 322\_C\_0040\_1.LEFT\_MLO.LJPEG.1\_highpass.png 
Saving 323_C_0040_1.RIGHT_CC.LJPEG.1_highpass.png to 323_C_0040_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 324_C_0040_1.LEFT_CC.LJPEG.1_highpass.png to 324_C_0040_1.LEFT_CC.LJPEG.1_highpass.png
Saving 325_C_0041_1.RIGHT_MLO.LJPEG.1_highpass.png to 325_C_0041_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 326_C_0041_1.LEFT_MLO.LJPEG.1_highpass.png to 326_C_0041_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 327_C_0041_1.RIGHT_CC.LJPEG.1_highpass.png to 327_C_0041_1.RIGHT_CC.LJPEG.1_highpass.png Saving 328_C_0041_1.LEFT_CC.LJPEG.1_highpass.png to 328_C_0041_1.LEFT_CC.LJPEG.1_highpass.png
Saving 329_C_0042_1.RIGHT_MLO.LJPEG.1_highpass.png to 329_C_0042_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 330_C_0042_1.LEFT_MLO.LJPEG.1_highpass.png to 330_C_0042_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 331\_C\_0042\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 331\_C\_0042\_1.RIGHT\_CC.LJPEG.1\_highpass.png
Saving 332_C_0042_1.LEFT_CC.LJPEG.1_highpass.png to 332_C_0042_1.LEFT_CC.LJPEG.1_highpass.png
Saving 333\_C\_0043\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 333\_C\_0043\_1.RIGHT\_MLO.LJPEG.1\_highpass.png
Saving 334\_C\_0043\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 334\_C\_0043\_1.LEFT\_MLO.LJPEG.1\_highpass.png
Saving 335_C_0043_1.RIGHT_CC.LJPEG.1_highpass.png to 335_C_0043_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 336_C_0043_1.LEFT_CC.LJPEG.1_highpass.png to 336_C_0043_1.LEFT_CC.LJPEG.1_highpass.png Saving 337_C_0045_1.RIGHT_MLO.LJPEG.1_highpass.png to 337_C_0045_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 338\_C\_0045\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 338\_C\_0045\_1.LEFT\_MLO.LJPEG.1\_highpass.png
Saving 339_C_0045_1.RIGHT_CC.LJPEG.1_highpass.png to 339_C_0045_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 340_C_0045_1.LEFT_CC.LJPEG.1_highpass.png to 340_C_0045_1.LEFT_CC.LJPEG.1_highpass.png
Saving 341\_C\_0046\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 341\_C\_0046\_1.RIGHT\_MLO.LJPEG.1\_highpass.png
Saving 342_C_0046_1.LEFT_MLO.LJPEG.1_highpass.png to 342_C_0046_1.LEFT_MLO.LJPEG.1_highpass.png
Saving 343_C_0046_1.RIGHT_CC.LJPEG.1_highpass.png to 343_C_0046_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 344\_C\_0046\_1.LEFT\_CC.LJPEG.1\_highpass.png to 344\_C\_0046\_1.LEFT\_CC.LJPEG.1\_highpass.png
Saving 345_C_0047_1.RIGHT_MLO.LJPEG.1_highpass.png to 345_C_0047_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 346_C_0047_1.LEFT_MLO.LJPEG.1_highpass.png to 346_C_0047_1.LEFT_MLO.LJPEG.1_highpass.png
 Saving 347_C_0047_1.RIGHT_CC.LJPEG.1_highpass.png to 347_C_0047_1.RIGHT_CC.LJPEG.1_highpass.png
Saving 348_C_0047_1.LEFT_CC.LJPEG.1_highpass.png to 348_C_0047_1.LEFT_CC.LJPEG.1_highpass.png
Saving 349_C_0048_1.RIGHT_MLO.LJPEG.1_highpass.png to 349_C_0048_1.RIGHT_MLO.LJPEG.1_highpass.png
Saving 350_C_0048_1.LEFT_MLO.LJPEG.1_highpass.png to 350_C_0048_1.LEFT_MLO.LJPEG.1_highpass.png
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Saving 351\_C\_0048\_1.kigHi\_CC.LJMEG.1\_nignpass.png to 351\_C\_0048\_1.kigHi\_CC.LJMEG.1\_nignpass.png Saving  $352\_C\_0048\_1.LEFT\_CC.LJPEG.1\_highpass.png$  to  $352\_C\_0048\_1.LEFT\_CC.LJPEG.1\_highpass.png$  $Saving \ 353\_C\_0050\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \ to \ 353\_C\_0050\_1.RIGHT\_MLO.LJPEG.1\_highpass.png \$ Saving 354\_C\_0050\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 354\_C\_0050\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 355\_C\_0050\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 355\_C\_0050\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 356\_C\_0050\_1.LEFT\_CC.LJPEG.1\_highpass.png to 356\_C\_0050\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 357\_C\_0051\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 357\_C\_0051\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 358\_C\_0051\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 358\_C\_0051\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 359\_C\_0051\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 359\_C\_0051\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 360\_C\_0051\_1.LEFT\_CC.LJPEG.1\_highpass.png to 360\_C\_0051\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 361\_C\_0052\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 361\_C\_0052\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 362\_C\_0052\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 362\_C\_0052\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving  $363\_C\_0052\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $363\_C\_0052\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving 364\_C\_0052\_1.LEFT\_CC.LJPEG.1\_highpass.png to 364\_C\_0052\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving  $365\_C\_0057\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$  to  $365\_C\_0057\_1.RIGHT\_MLO.LJPEG.1\_highpass.png$ Saving 366\_C\_0057\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 366\_C\_0057\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 367\_C\_0057\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 367\_C\_0057\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving 368\_C\_0057\_1.LEFT\_CC.LJPEG.1\_highpass.png to 368\_C\_0057\_1.LEFT\_CC.LJPEG.1\_highpass.png Saving 369\_C\_0059\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 369\_C\_0059\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 370\_C\_0059\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 370\_C\_0059\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 371\_C\_0059\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 371\_C\_0059\_1.RIGHT\_CC.LJPEG.1\_highpass.png Saving  $372\_C\_0059\_1.LEFT\_CC.LJPEG.1\_highpass.png$  to  $372\_C\_0059\_1.LEFT\_CC.LJPEG.1\_highpass.png$ Saving 373\_C\_0061\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 373\_C\_0061\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving  $374\_C\_0061\_1.LEFT\_MLO.LJPEG.1\_highpass.png$  to  $374\_C\_0061\_1.LEFT\_MLO.LJPEG.1\_highpass.png$ Saving  $375\_C\_0061\_1.RIGHT\_CC.LJPEG.1\_highpass.png$  to  $375\_C\_0061\_1.RIGHT\_CC.LJPEG.1\_highpass.png$ Saving  $376\_C\_0061\_1.LEFT\_CC.LJPEG.1\_highpass.png$  to  $376\_C\_0061\_1.LEFT\_CC.LJPEG.1\_highpass.png$ Saving 377\_C\_0062\_1.RIGHT\_MLO.LJPEG.1\_highpass.png to 377\_C\_0062\_1.RIGHT\_MLO.LJPEG.1\_highpass.png Saving 378\_C\_0062\_1.LEFT\_MLO.LJPEG.1\_highpass.png to 378\_C\_0062\_1.LEFT\_MLO.LJPEG.1\_highpass.png Saving 379\_C\_0062\_1.RIGHT\_CC.LJPEG.1\_highpass.png to 379\_C\_0062\_1.RIGHT\_CC.LJPEG.1\_highpass.png