Dont' Utilize the Mosaic on this Field of Vlew

New Journal

```
Well = Screen.Status.WellName + " " + + "Site" + str(Screen.Status.SiteNum)
Power = str(Component.405 Laser Power.Position) +"% " +"Laser Power"
IF Screen.Status.WaveNum=2 THEN
   Segmentation of miRFP for Targeting
   EDIT ANALYSIS for MiRFP from here [LINE 1] to [Line 19]
   1: New "LowPass" = Basic Filters("Camera NIR", 5, 5)
   2: New "Segmentation" = Count Nuclei(Src=[1: Basic Filters])
   3: Close([1: Basic Filters])
   4: Threshold Image([2: Count Nuclei], 1, 65535, Inclusive)
   5: New "miRFP Binary" = Binarize([2: Count Nuclei]), high = current value, low = current value
   6: Close([2: Count Nuclei])
   IF dilate equals "nucleus", then use nucleus segmentation, but remove objects around the edges. Else, dilate the activation
   IF size dilate = 0 THEN
       7: Integrated Morphometry - Load State("exclude-objects-borders")
       8: Integrated Morphometry - Measure([5: Binary Operations])
       9: Integrated Morphometry - Create Objects Mask()
       10: Create Regions Around Objects("IMA Objects Mask")
       11: Transfer Regions("IMA Objects Mask", "Camera NIR", ALLREGIONS)
       12: Close([5: Binary Operations])
       13: Close("IMA Objects Mask")
   ELSE
       14: Integrated Morphometry - Load State("miRFP Segmentation Single Bin")
       15: Integrated Morphometry - Measure([5: Binary Operations])
       16: Set Image Zoom([5: Binary Operations], 100)
       17: New "Centroid_Binary" = As Displayed([Last Result], Entire image)
       18: Set Color Threshold([17: As Displayed], RGBCOLORMODEL and INCLUSIVEHUE and STATEINCLUSIVE, 254,
       19: New "MiRFP Centroid" = Binarize([17: As Displayed]), 1, 255
       20: New "Dilate" = Morphological Dilate([19: Binary Operations], Circle)
           size = size dilate
       21: Create Regions Around Objects("Dilate")
       22: Transfer Regions("Dilate", "Camera NIR", ALLREGIONS)
       23: Close([20: Morphological Dilate])
       24: Close([19: Binary Operations])
       25: Close([17: As Displayed])
   END IF
   ************TARGETING FOR MOSAIC -NO NEED TO EDIT SCRIPT/CHANGE BELOW THIS LINE*******
   26: Select Image("Camera NIR")
   IF Image.NumRegions >=1 THEN
       Reg = 1
       Total Regions = Image.NumRegions +Total Regions
       Regions are Saved and loaded to Mosaic for Targeting
       Run Journal C:\MM\app\mmproc\journals\Mosaic journals\Save ROI Batch 1.jnl
       current_illumination = Device.Illumination.Setting
       27: Select Illumination("Camera GFP")
       28: Targeted Illumination = Targeted Illumination(Illum setting=Camera GFP, Coord setting=20X APO, Active region,
           Coordinate system setting = Device.Magnification.Setting
           Mask Exposure Duration [ms] = pulsetime
       29: Delay(MILLISEC)
           Time = pulsetime
       30: Select Illumination("Camera GFP")
           Setting Name = current_Illumination
       31: Clear All Regions("Camera NIR")
   ELSE
       Req = 0
```

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END IF
ELSE
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END IF

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Create Overlay Images for Final Display Purposes
IF Screen.Status.WaveName="Camera RFP 532x Post" THEN
    IF Reg=1 THEN
       32: New "Color Combine" = Color Combine("Camera NIR", "Camera GFP", [None])
33: Text([32: Color Combine], 10, 10, 0, 255, 0, Arial, Bold, 9, "%Well% Pulse Time: %pulsetime% Power: %Power%
        34: Load Regions([32: Color Combine], "Batch 1 ROI Targeting")
        35: Add to "Target Regions Overlay" = As Displayed([32: Color Combine], Entire image)
        36: Close([32: Color Combine])
    ELSE
        37: New "Color Combine" = Color Combine("Camera NIR", "Camera GFP", [None])
        38: Text([37: Color Combine], 10, 10, 0, 255, 0, Arial, Bold, 8, "%Well%
                                                                                       Pulse Time: %pulsetime%
                                                                                                                       Power: %F
        39: Add to "Target Regions Overlay" = As Displayed([37: Color Combine], Entire image)
        40: Close([37: Color Combine])
    END IF
ELSE
END IF
```