BioImageOperation script operations

```
SetPath(Path)
        •Set path for relative file paths (by default path of current script file)
CreateImage(Width, Height, ColorMode, Red, Green, Blue)
        •Create a new image
OpenImage(Path, Start, Length, Interval)
        •Open image file(s) for processing, accepts file name pattern, start/length #
OpenVideo(Path, API, Start, Length, Interval)
        •Open video file(s) and process frames, accepts file name pattern, start/length frames or time (ffmpeg formats
supported) (API: See OpenCV API codes)
OpenCapture(API, Path, Source, Width, Height, Interval)
        •Open capturing from video (IP) path or camera source (#) (API: See OpenCV API codes)
SaveImage(Path, Label, Start, Length)
        •Save image to file, start/length frames or time
SaveVideo(Path, Label, Start, Length, Fps, Codec)
        •Create video file and save image to video file, start/length frames or time, using fourcc codec string (supports
installed encoders)
ShowImage(Label, Display)
        •Show image on screen (low priority screen updates) (display: 1 - 4)
StoreImage(Label)
        •Store current image in memory
GetImage(Label)
        •Get specified stored image from memory
Grayscale(Label)
        •Convert image to gray scale
Color(Label)
        •Convert image to color
ColorAlpha(Label)
        •Convert image to color with alpha channel
GetSaturation(Label)
        •Extract saturation from image
GetHsValue(Label)
        •Extract (HSV) Value from image
GetHsLightness(Label)
        •Extract (HSL) Lightness from image
Scale(Width, Height, Label)
        •Scale image
Crop(X, Y, Width, Height, Label)
        •Crop image
Mask(Label)
        •Perform mask on current image
Threshold(Label, Level)
        •Convert image to binary using threshold level, or in case not provided using automatic Otsu method
Difference(Label)
        •Perform difference of current image and specified image
DifferenceAbs(Label)
        •Perform absolute difference of current image and specified image
Add(Label)
        •Adds specified image to current image
Multiply(Factor)
        •Perform multiplication of all color channels by specified factor
```

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Invert(Label)
        •Invert image
UpdateBackground(Label, Weight)
        •Add image to the adaptive background buffer
UpdateAverage(Label, Weight)
        •Add image to the average buffer
AddSeries(Label, Maximum)
        •Add image to image series buffer
GetSeriesMedian()
        •Retrieve median image of image series buffer
AddAccum(Label, AccumMode)
        •Add image to the accumulative buffer (AccumMode: Age, Usage)
GetAccum(Power, Palette)
        •Retrieve the accumulative buffer and convert to image (Palette: Grayscale, Heat, Rainbow)
CreateClusters(Tracker, MinArea, MaxArea)
        •Create clusters; auto calibrate using initial images if no parameters specified
CreateTracks(Tracker, MaxMove, MinActive, MaxInactive)
        •Create cluster tracking; auto calibrate using initial images if no parameters specified
CreatePaths(Tracker, Distance)
        •Create common path usage
DrawClusters(Label, Tracker, DrawMode)
        •Draw clusters (DrawMode: Point|Circle|Box|Angle|Label|Labeln|Fill)
DrawTracks(Label, Tracker, DrawMode)
        •Draw tracked clusters (DrawMode: Point|Circle|Box|Angle|Label|Labeln|Track|Tracks)
DrawPaths(Label, Tracker, PathDrawMode, Power, Palette)
        •Draw common paths (PathDrawMode: Age, Usage, Links, LinksMove) (Palette: Grayscale, Heat, Rainbow)
SaveClusters(Path, Tracker, Format, Contour)
        •Save clusters to CSV file (Format: ByTime, ByLabel, Split)
SaveTracks(Path, Tracker, Format, Contour)
        •Save cluster tracking to CSV file (Format: ByTime, ByLabel, Split)
SavePaths(Path, Tracker)
        •Save paths to CSV file
ShowTrackInfo(Tracker, Display)
        •Show tracking information on screen (Display: 1 - 4)
DrawTrackInfo(Label, Tracker)
        •Draw tracking stats on image
SaveTrackInfo(Path, Tracker)
        •Save tracking information to CSV file
SaveTrackLog(Path, Tracker)
        •Save tracking log to CSV file
DrawLegend(Label, Display, Position)
        •Draw legend (Display: 1 - 4 or Position on image: TopLeft, BottomLeft, TopRight, BottomRight)
Wait(MS)
        •Pause execution for a period (1000 ms default)
Debug()
        •Debug mode
```

Arguments:

Required

Optional