

Macros for splitting channels either individually or a combination of two using imageJ (<http://imagej.nih.gov/ij/>).

For installation of these macros:

- 1) Open imageJ
- 2) Go to File --- New --- script
- 3) Paste the script and chose language Ij1 macro.
- 4) Save it at your desired location.
- 5) Go to plugins – install plugin – and select the saved macro.
- 6) Restart ImageJ and it should appear in your plugin list.

FOR BOTH GREEN and RED

```
dir1 = getDirectory("open file ");
list = getFileList(dir1);
dir2 = dir1+"splits"+File.separator;
File.makeDirectory(dir2);
for (i=0; i<list.length; i++)
{

    if (File.isDirectory(dir1+list[i])) {}
    else {

        path = dir1+list[i];
        if (endsWith(path, ".db")) {}
        else {

            open(path);
            if (bitDepth!=24) {}
            else {
                setBatchMode(true);
                title = File.nameWithoutExtension ;
                run("Split Channels");
                close();

                saveAs("Jpeg", dir2+title+"green.jpg");
                close();
                saveAs("Jpeg", dir2+title+"red.jpg");
                close();
                setBatchMode(false);

            }
        }
    }
}
```

FOR GREEN

```
dir1 = getDirectory("open file ");
list = getFileList(dir1);
dir2 = dir1+"splits"+File.separator;
File.makeDirectory(dir2);
for (i=0; i<list.length; i++)
{

    if (File.isDirectory(dir1+list[i])){}
    else{

        path = dir1+list[i];
        if (endsWith(path, ".db")){}
        else{

            open(path);
            if (bitDepth!=24){}
            else {
                setBatchMode(true);
                title = File.nameWithoutExtension ;
                run("Split Channels");
                close();

                saveAs("Jpeg", dir2+title+"green.jpg");
                close();
                close();
                setBatchMode(false);

            }

        }

    }

}
```

FOR RED

```
dir1 = getDirectory("open file ");
list = getFileList(dir1);
dir2 = dir1+"splits"+File.separator;
File.makeDirectory(dir2);
for (i=0; i<list.length; i++)
{

    if (File.isDirectory(dir1+list[i])){}
    else{

        path = dir1+list[i];
        if (endsWith(path, ".db")){}
        else{

            open(path);
            if (bitDepth!=24){}
            else {
                setBatchMode(true);
                title = File.nameWithoutExtension ;
                run("Split Channels");
                close();

                close();
                saveAs("Jpeg", dir2+title+"red.jpg");
                close();
                setBatchMode(false);

            }

        }

    }

}
```

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