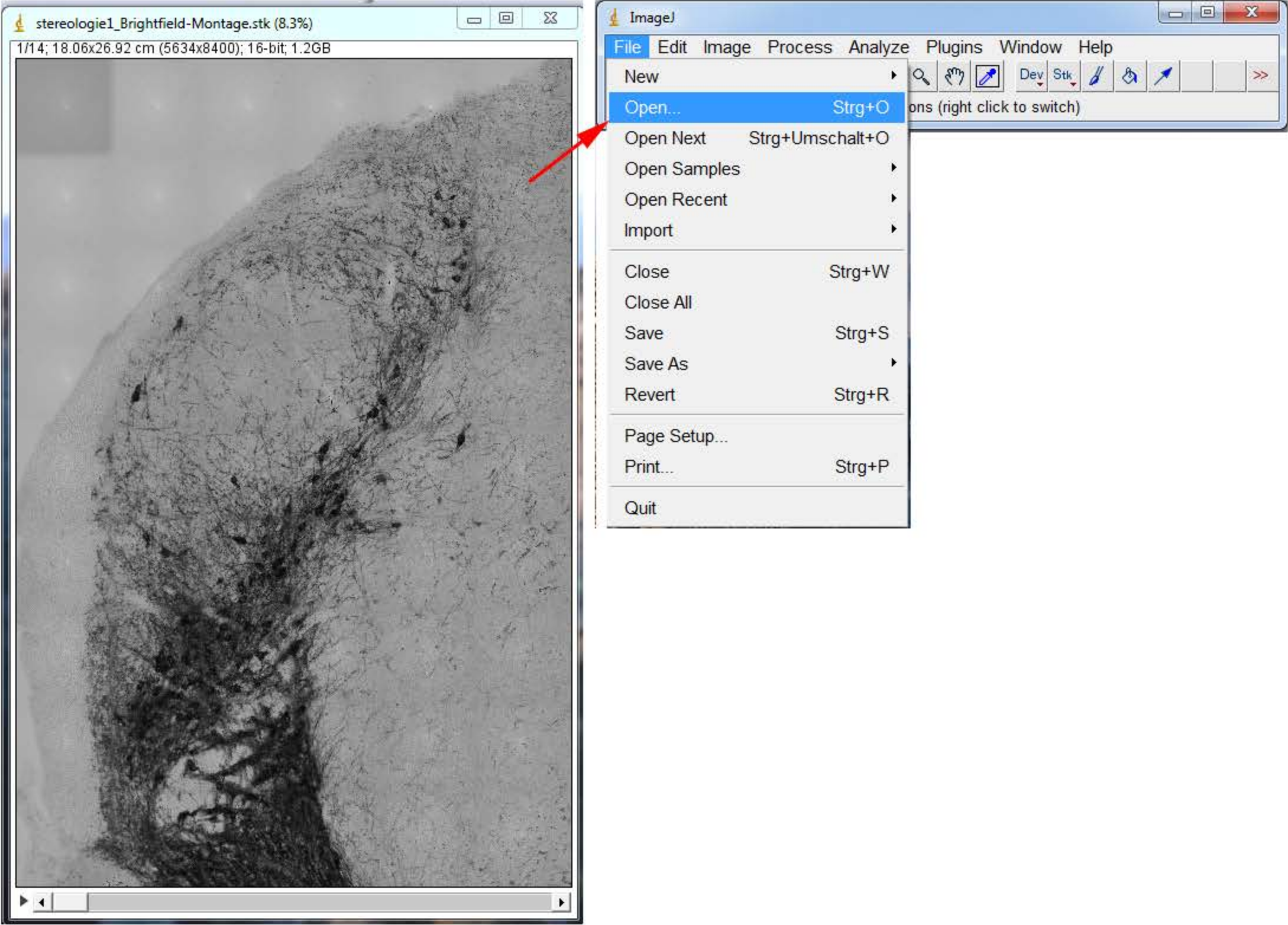
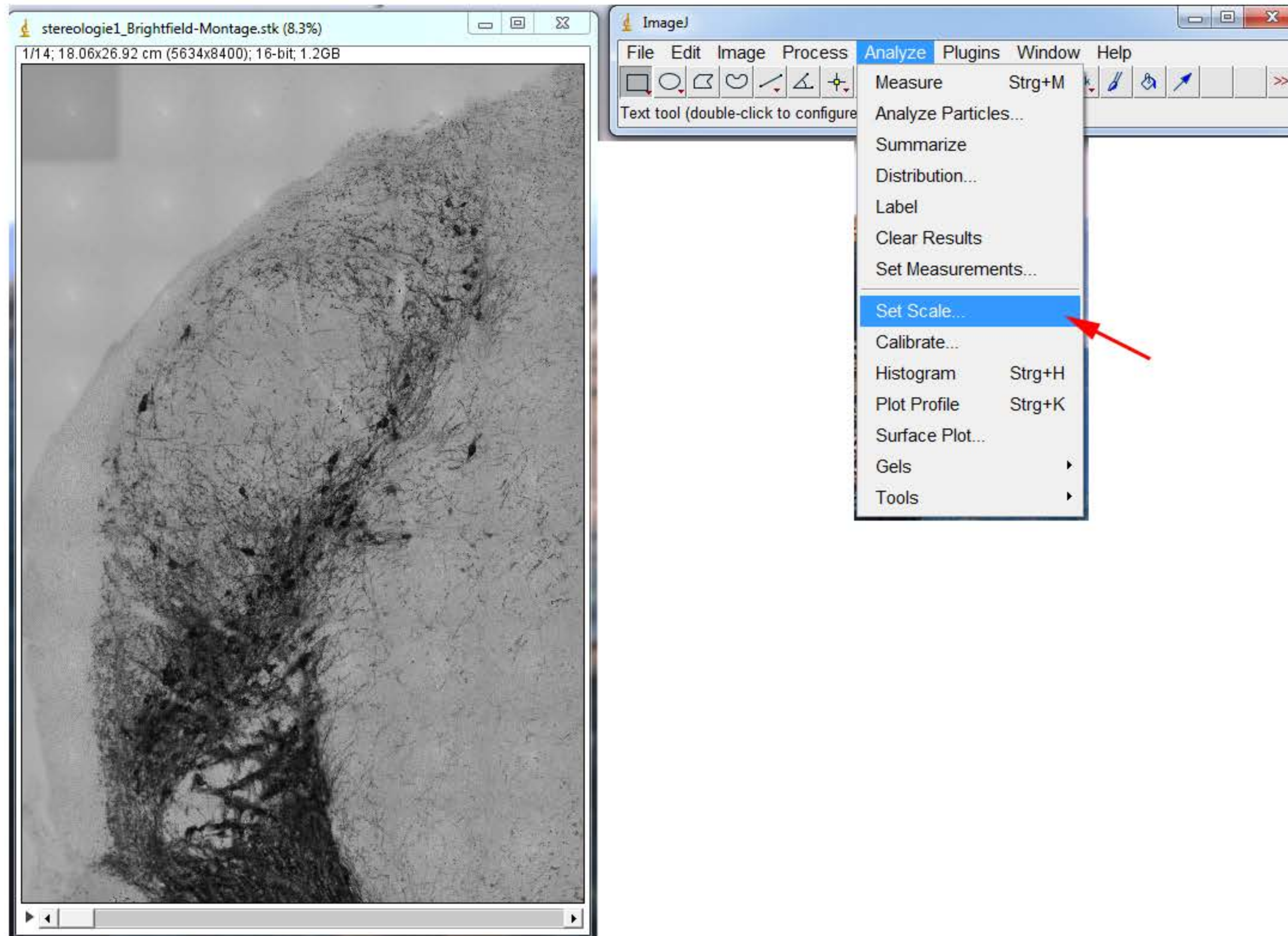


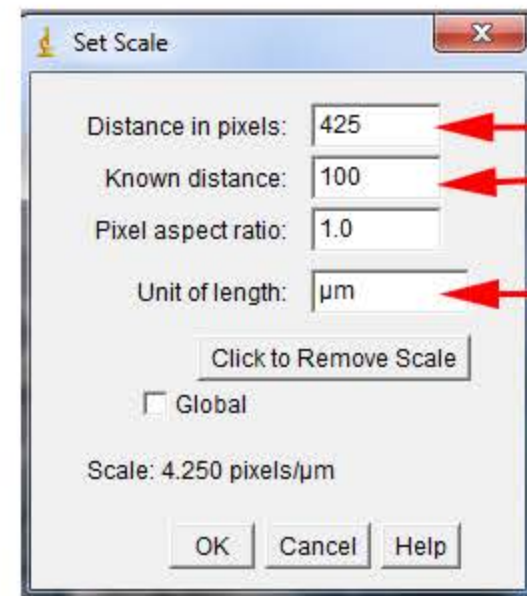
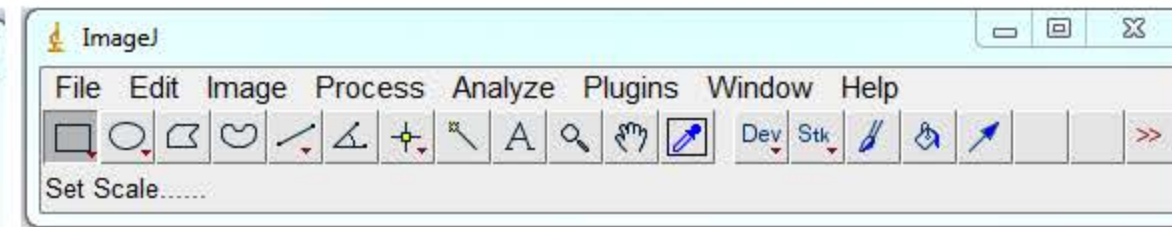
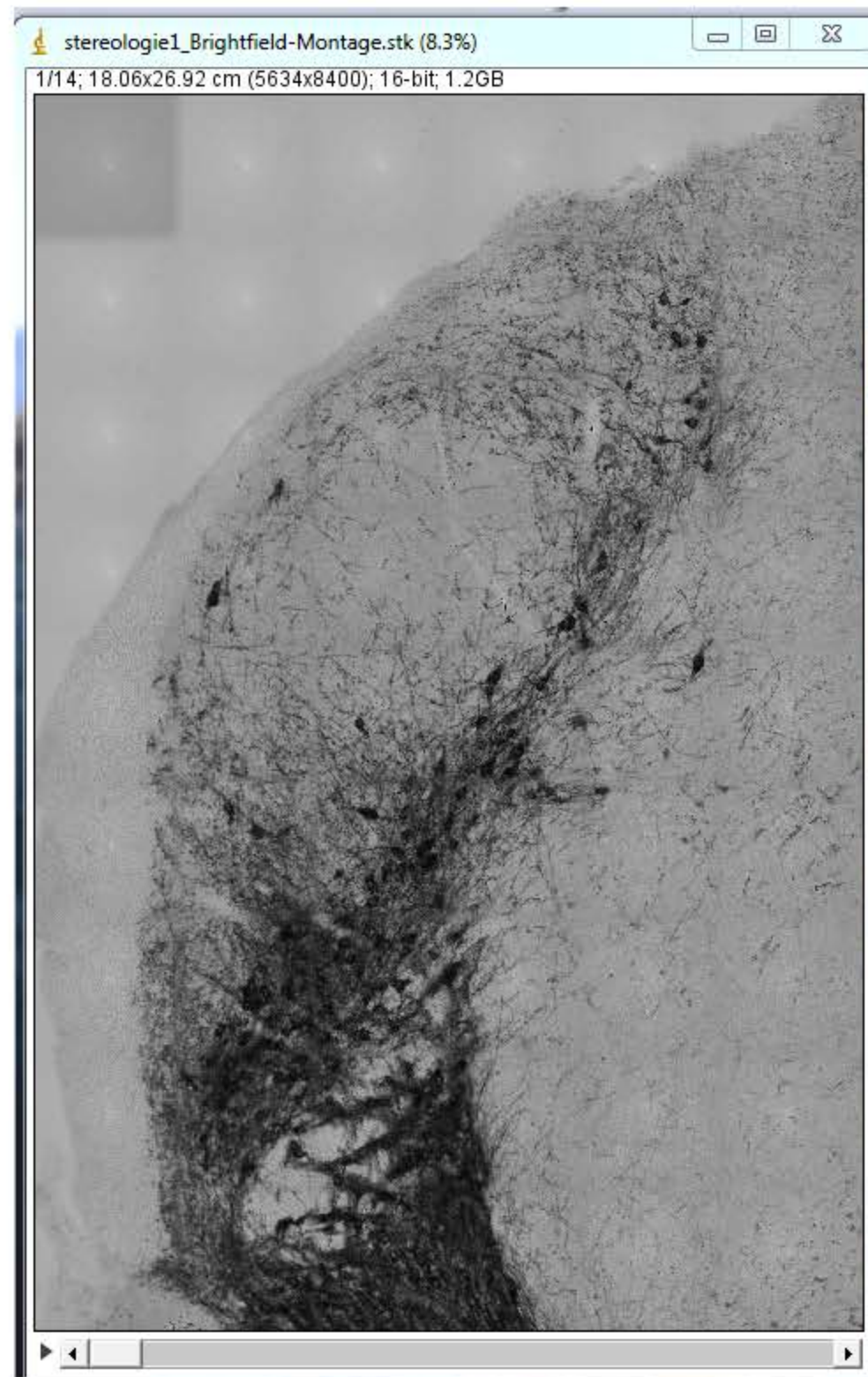
a



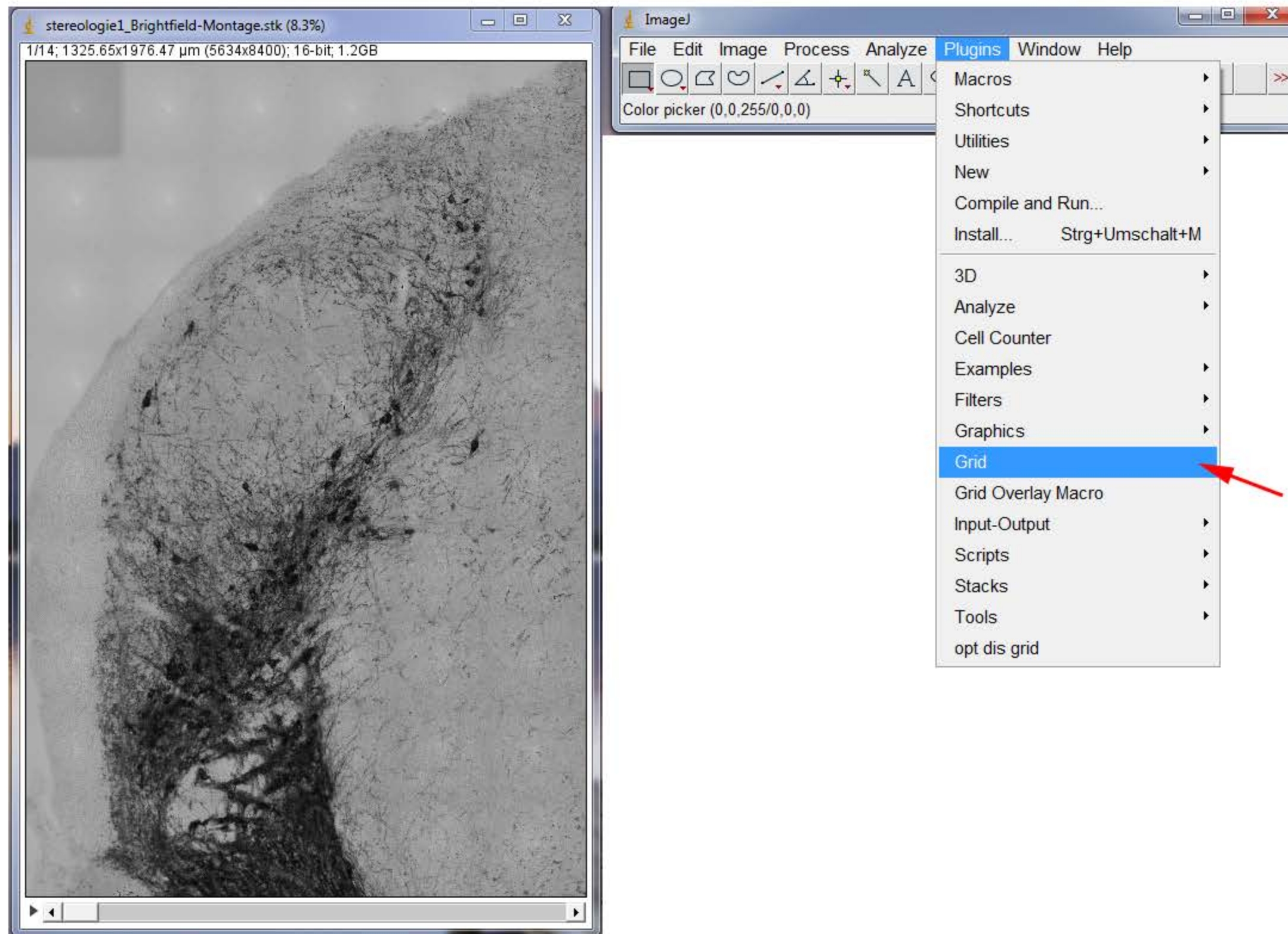
b



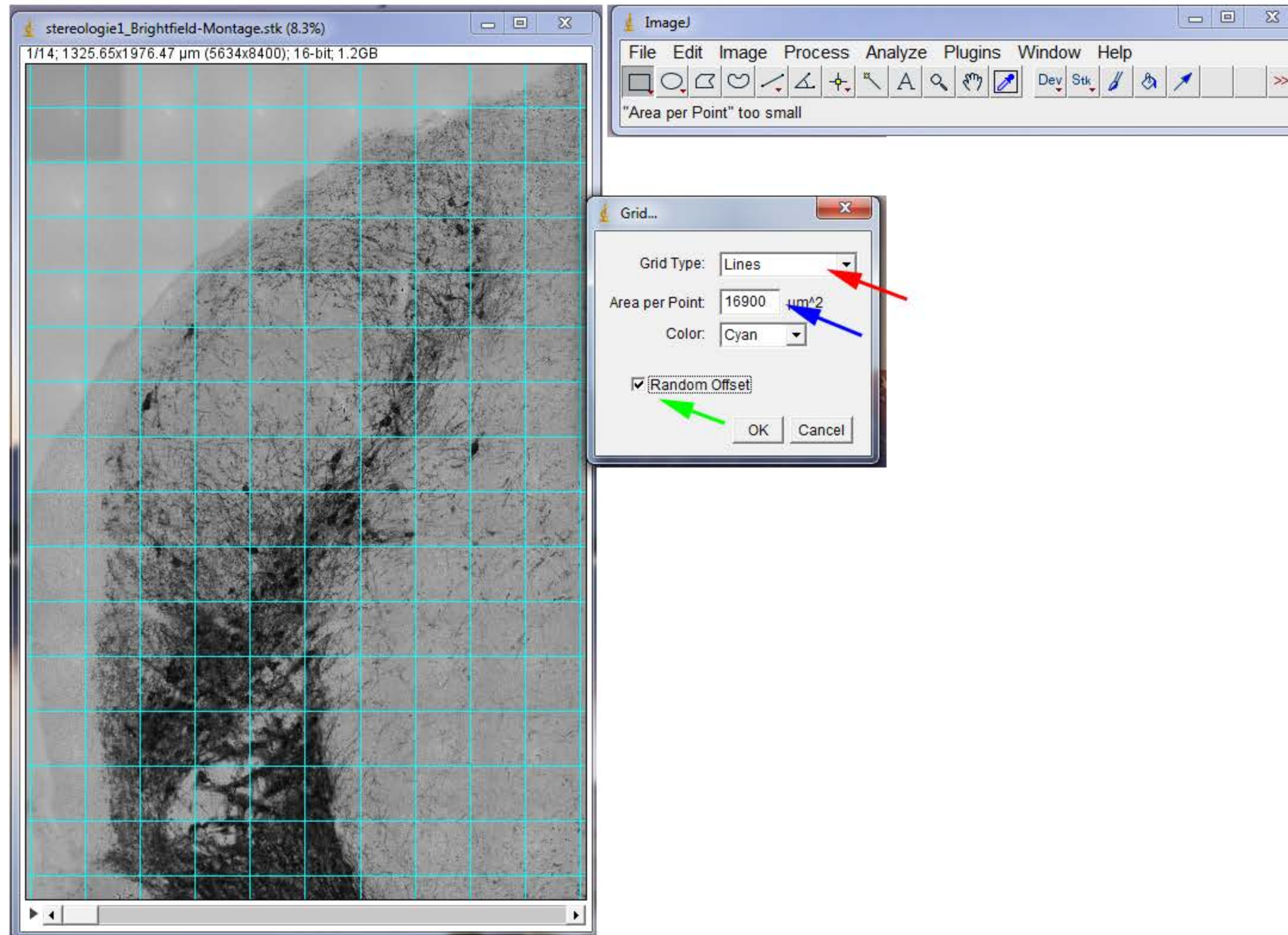
C

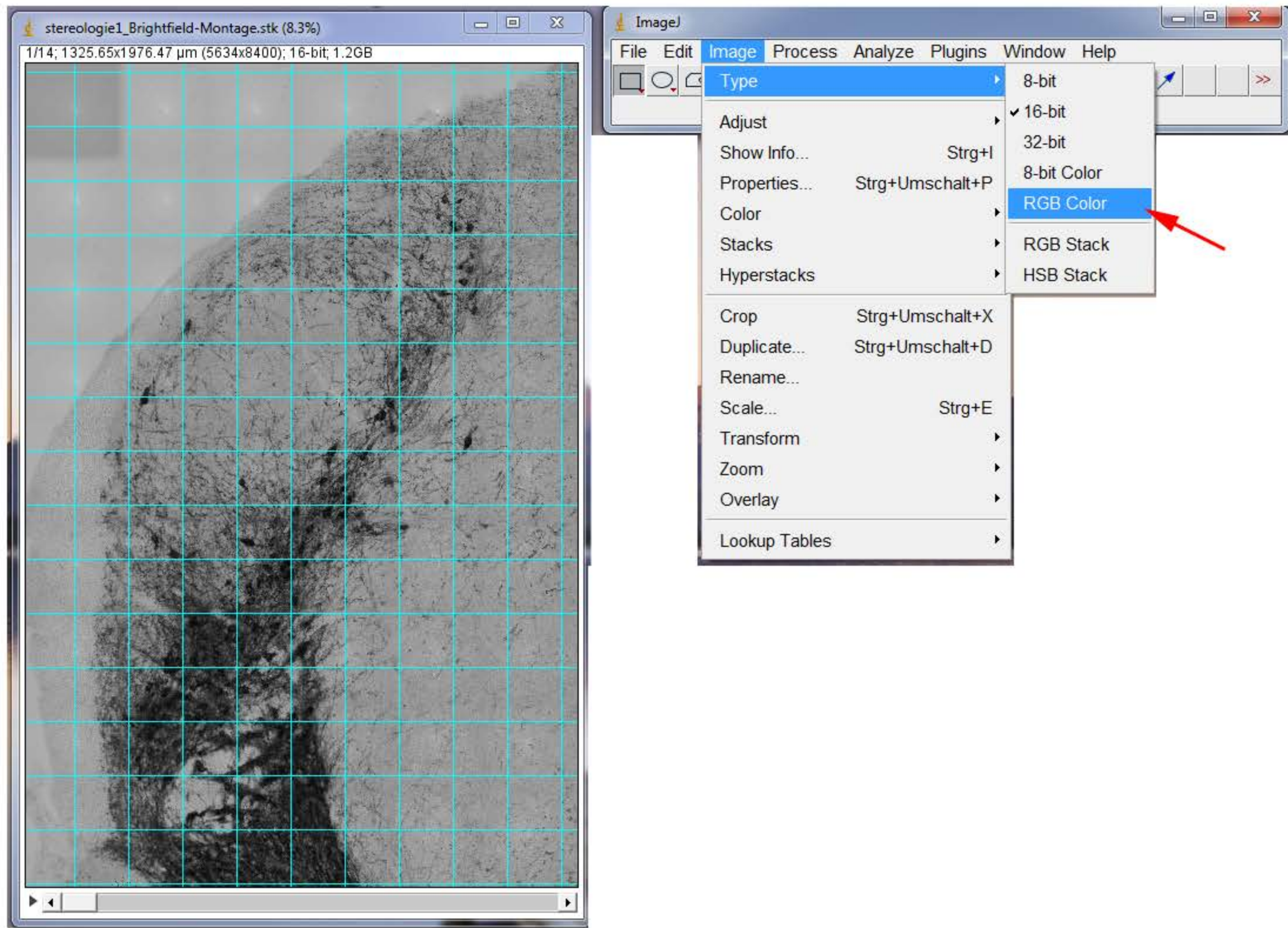


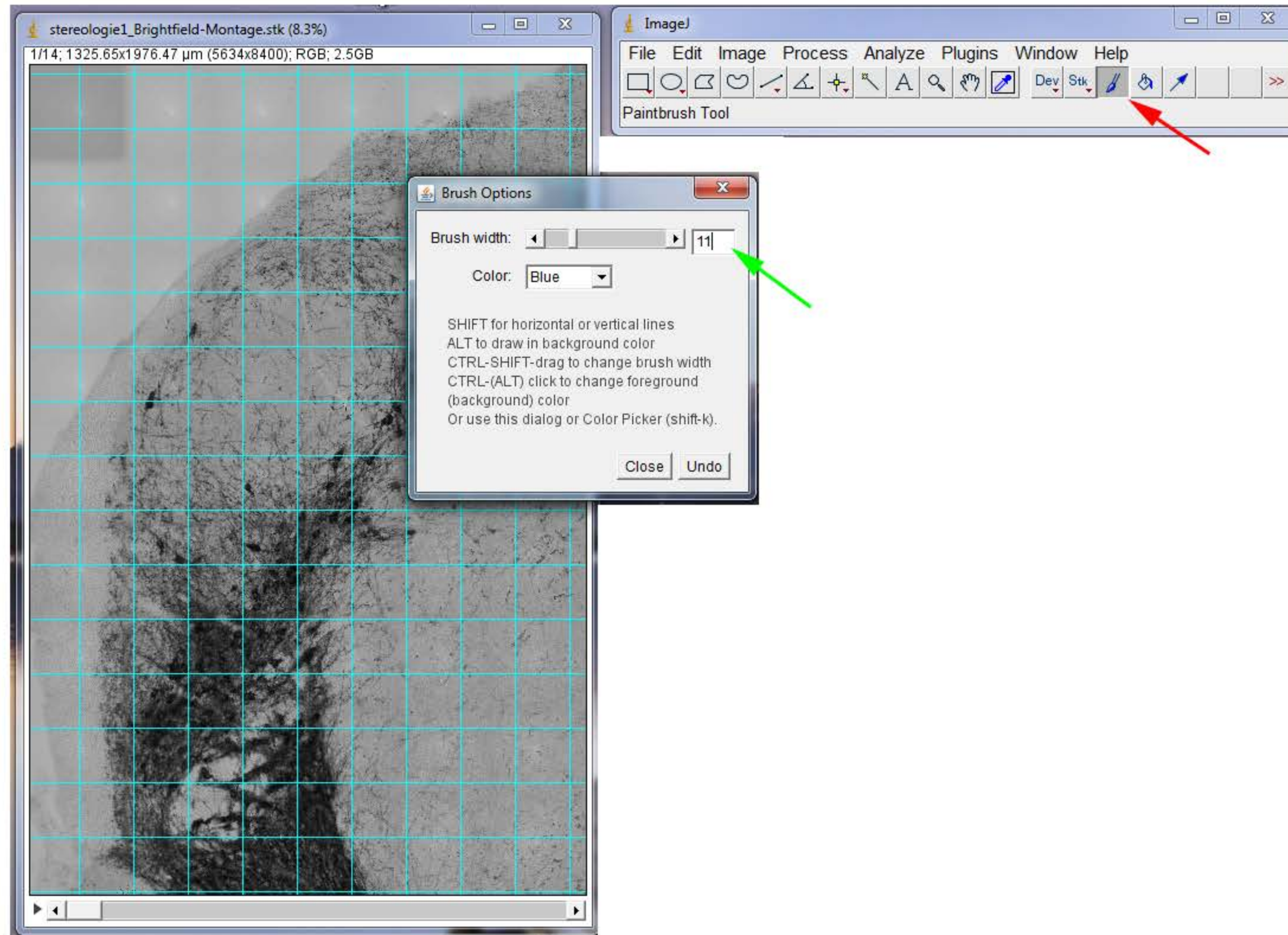
d



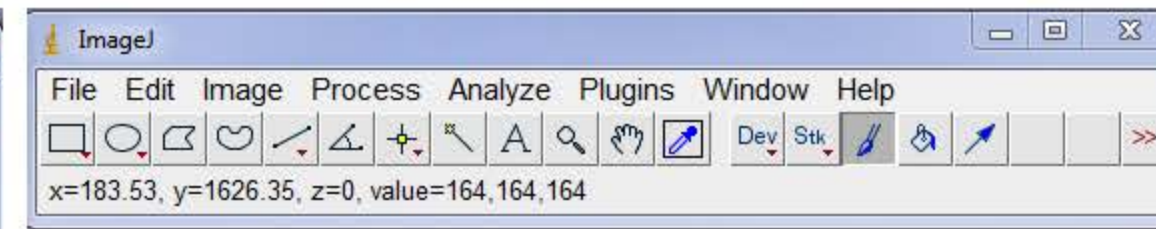
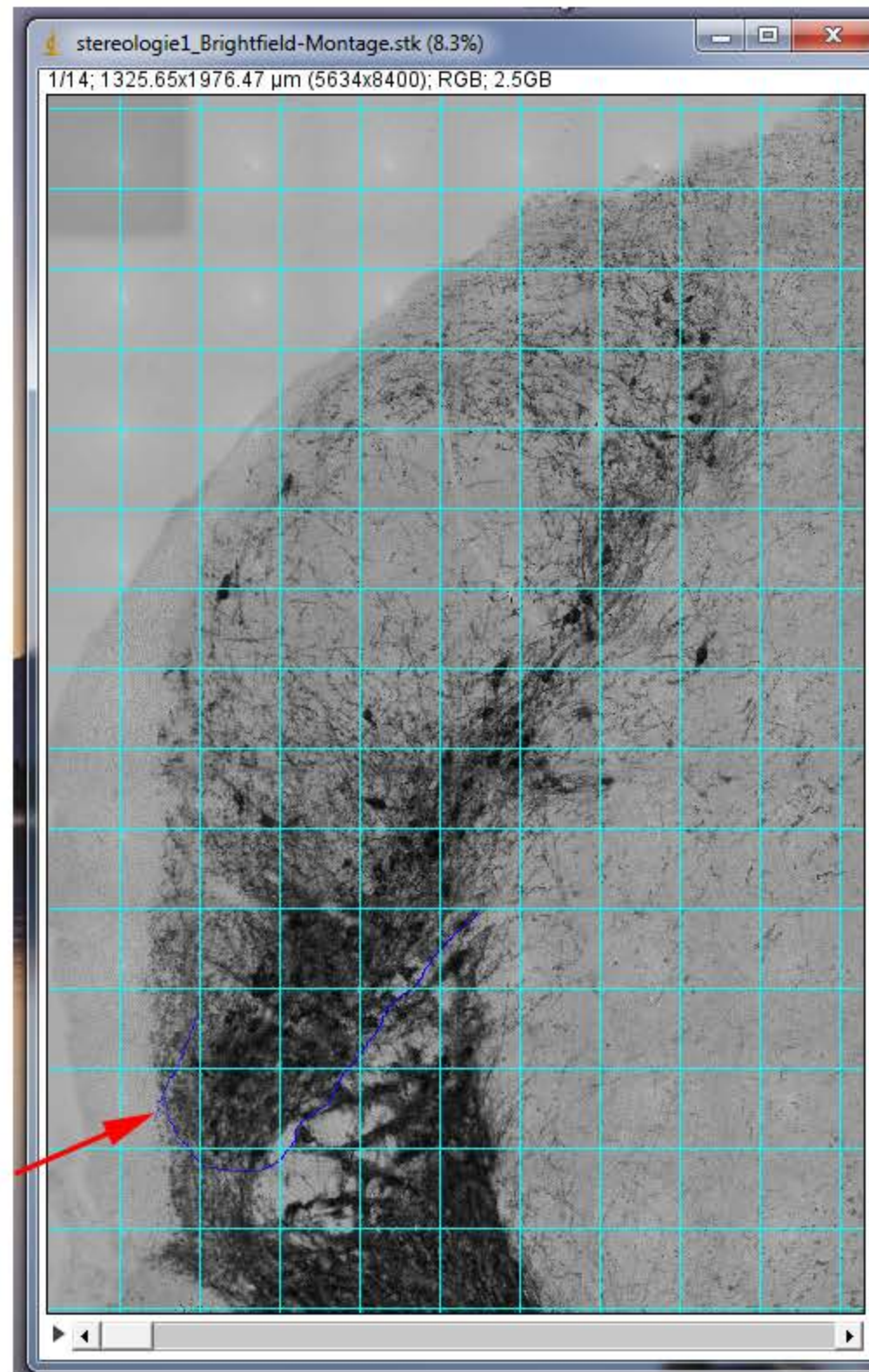
e



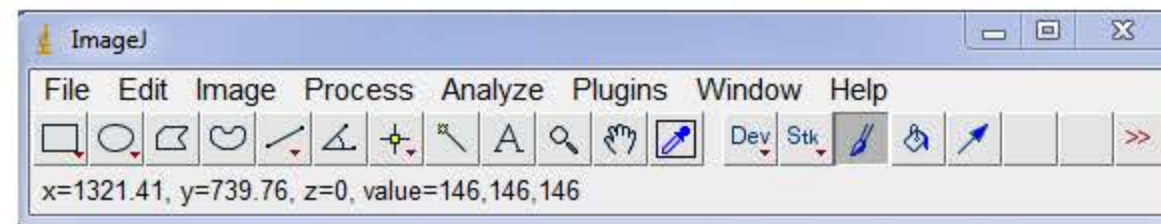
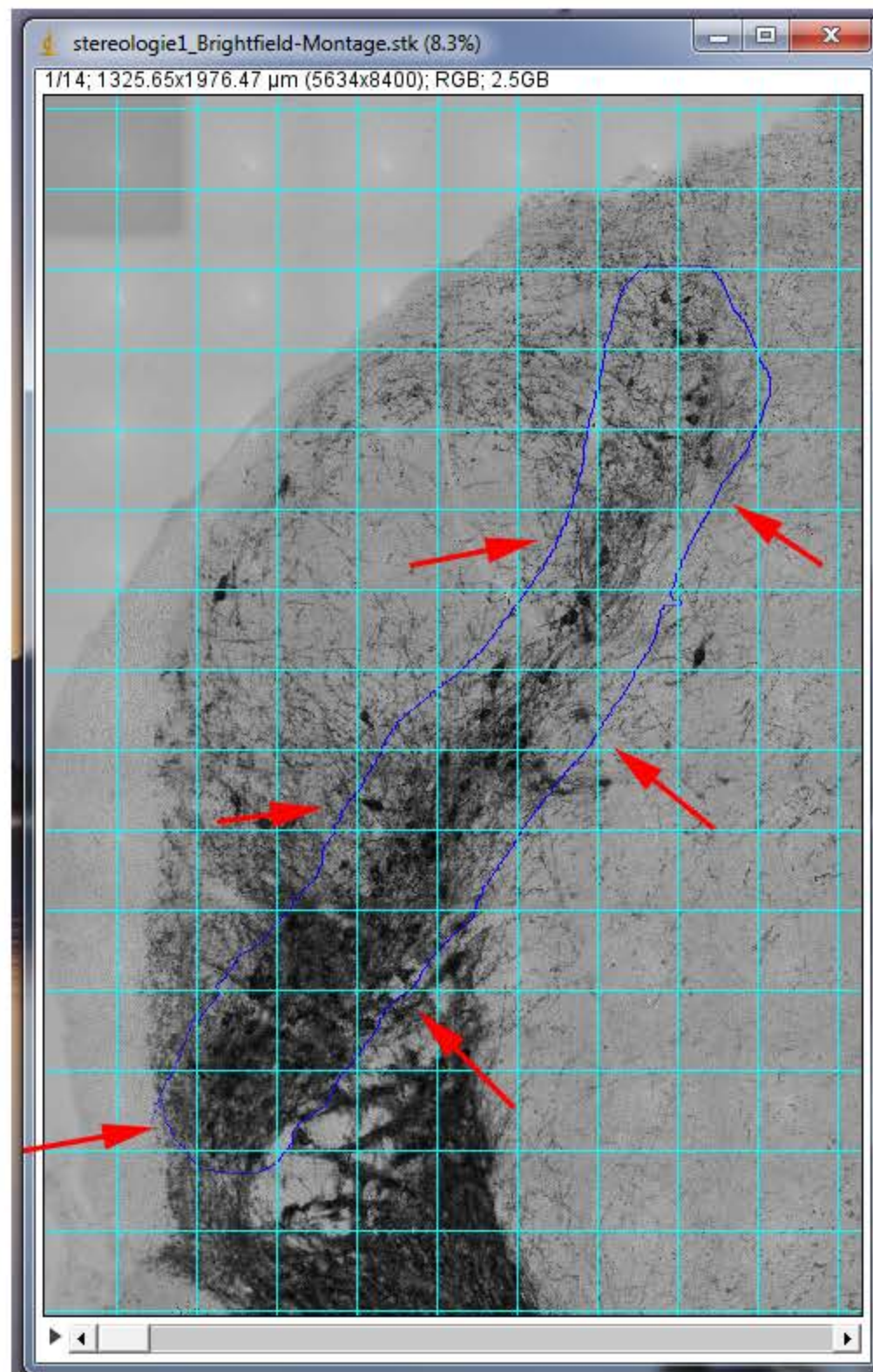




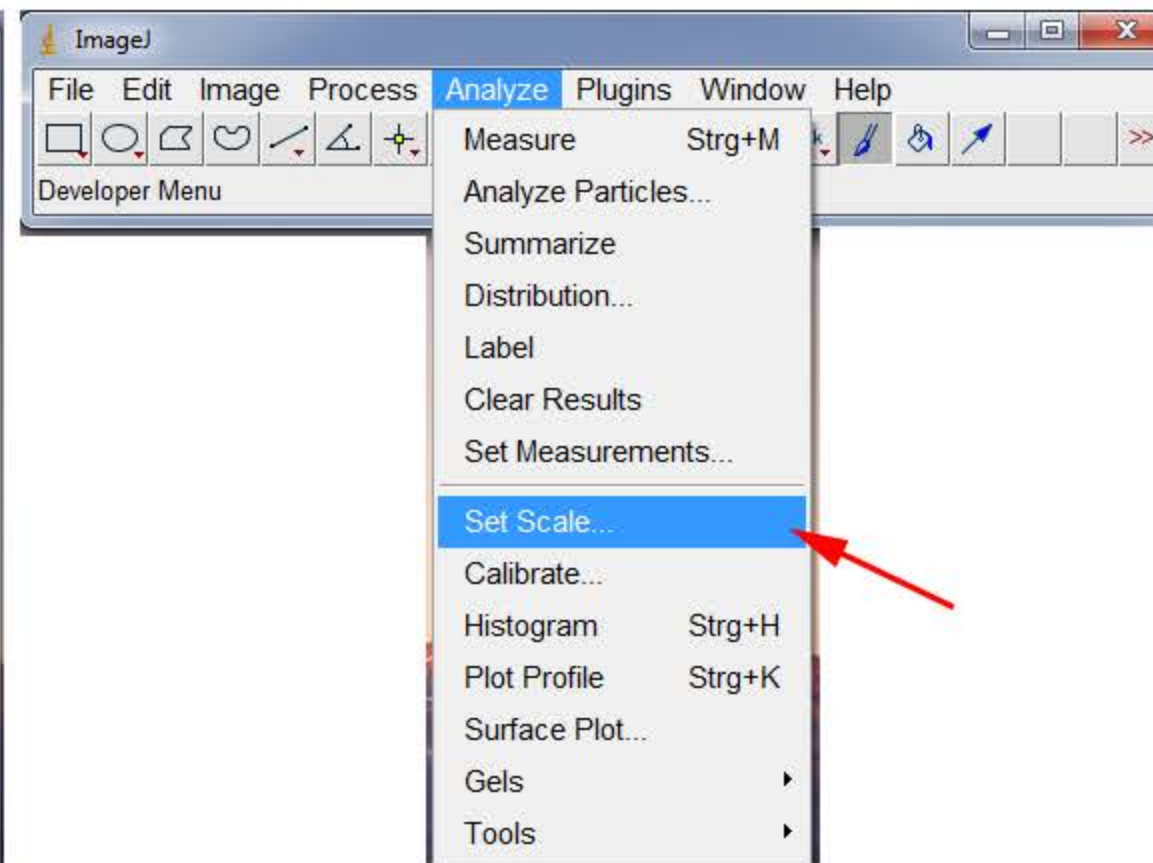
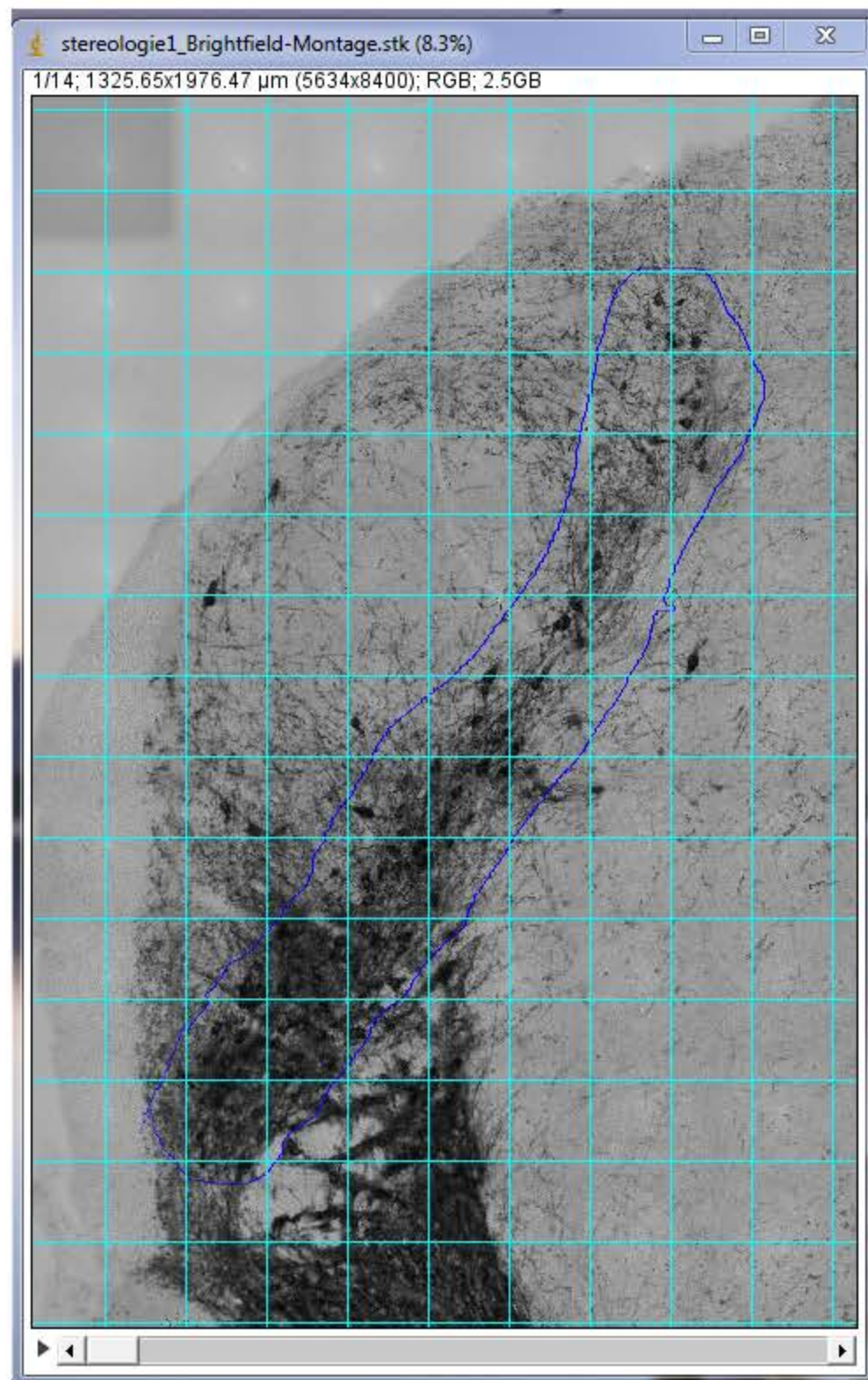
h



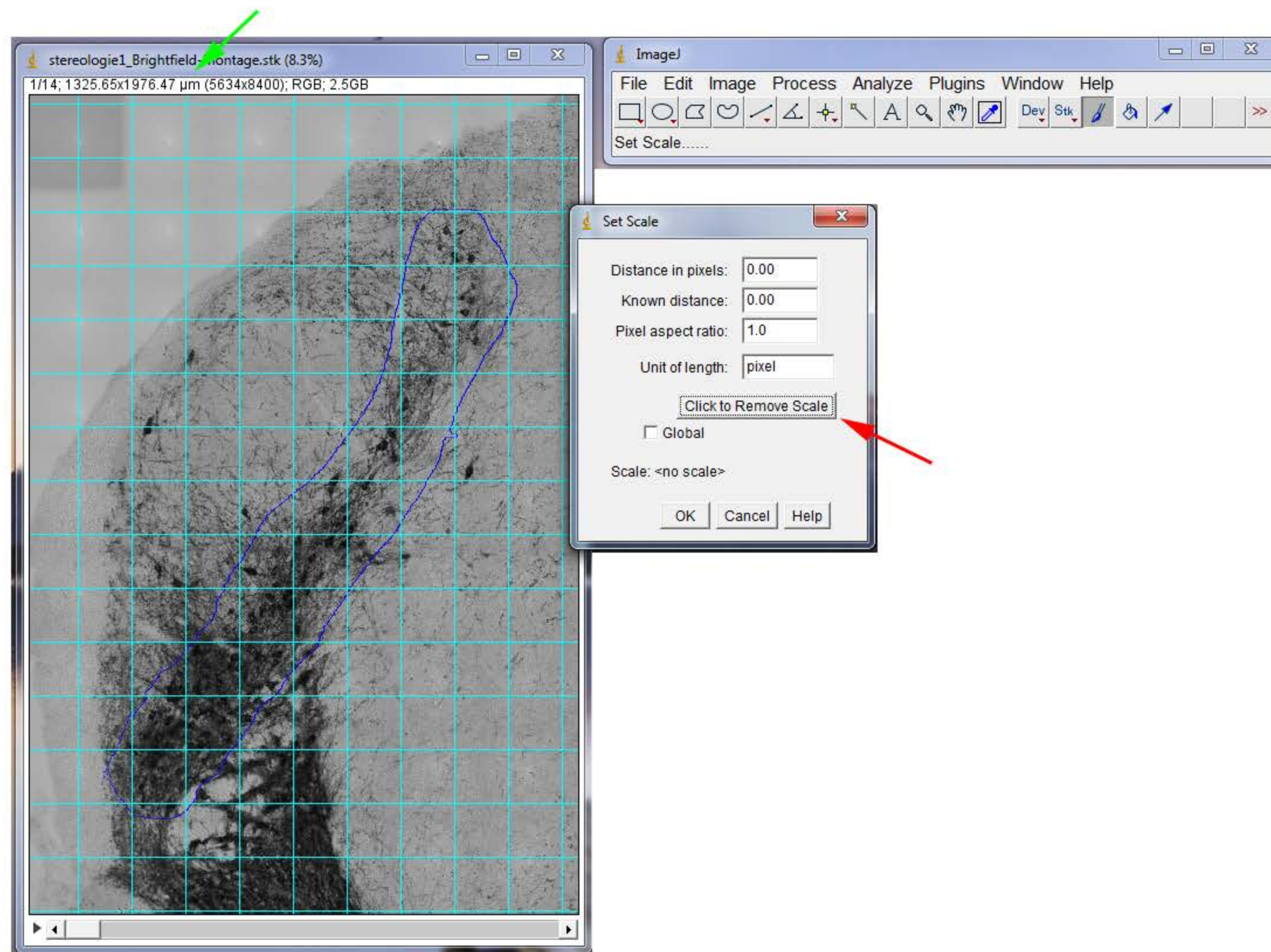
i

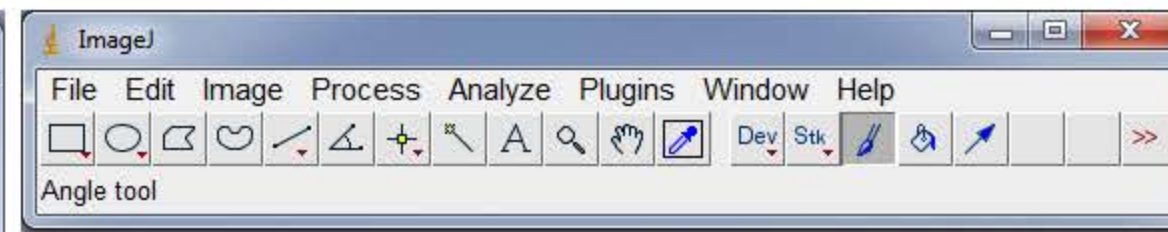
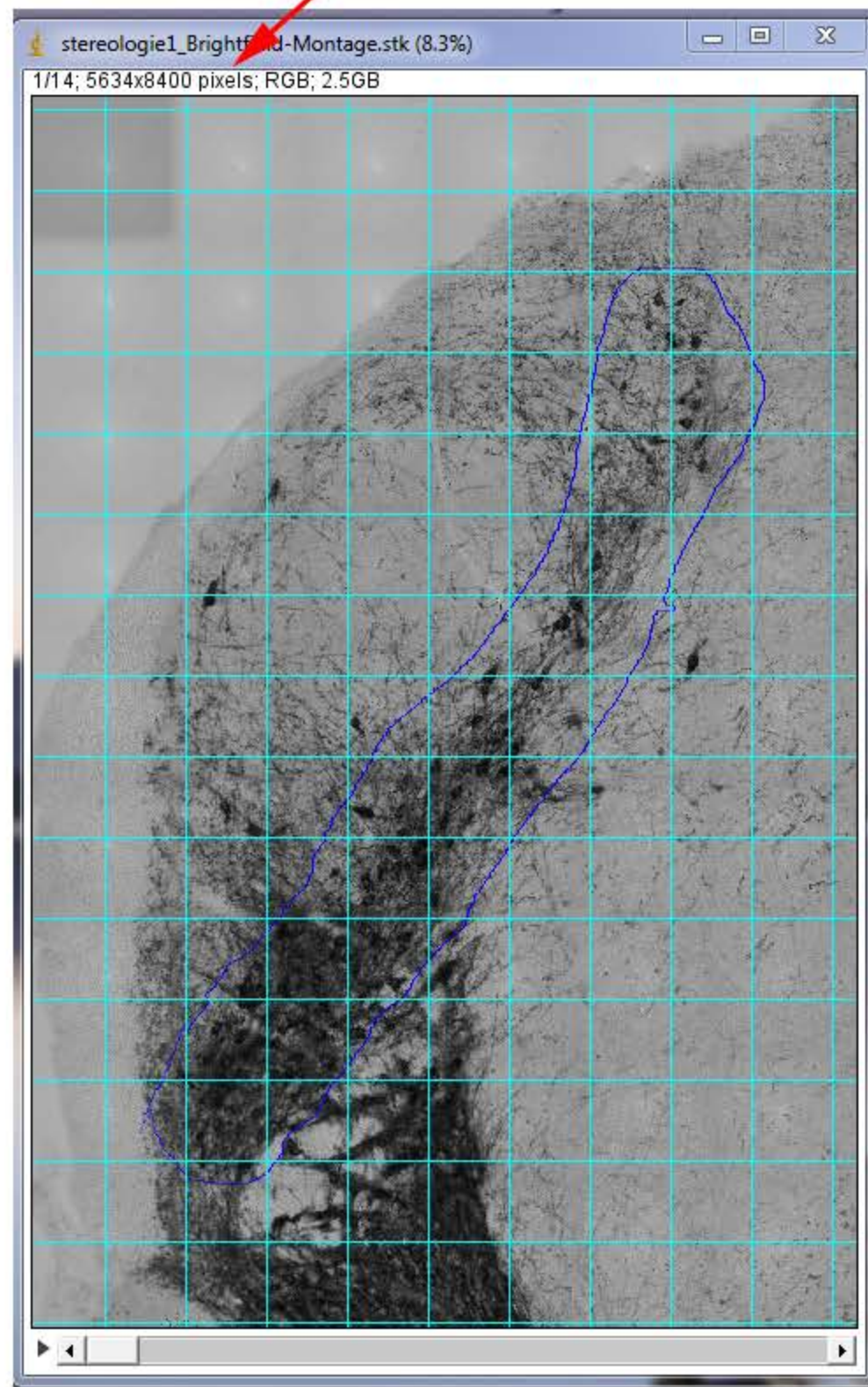


j

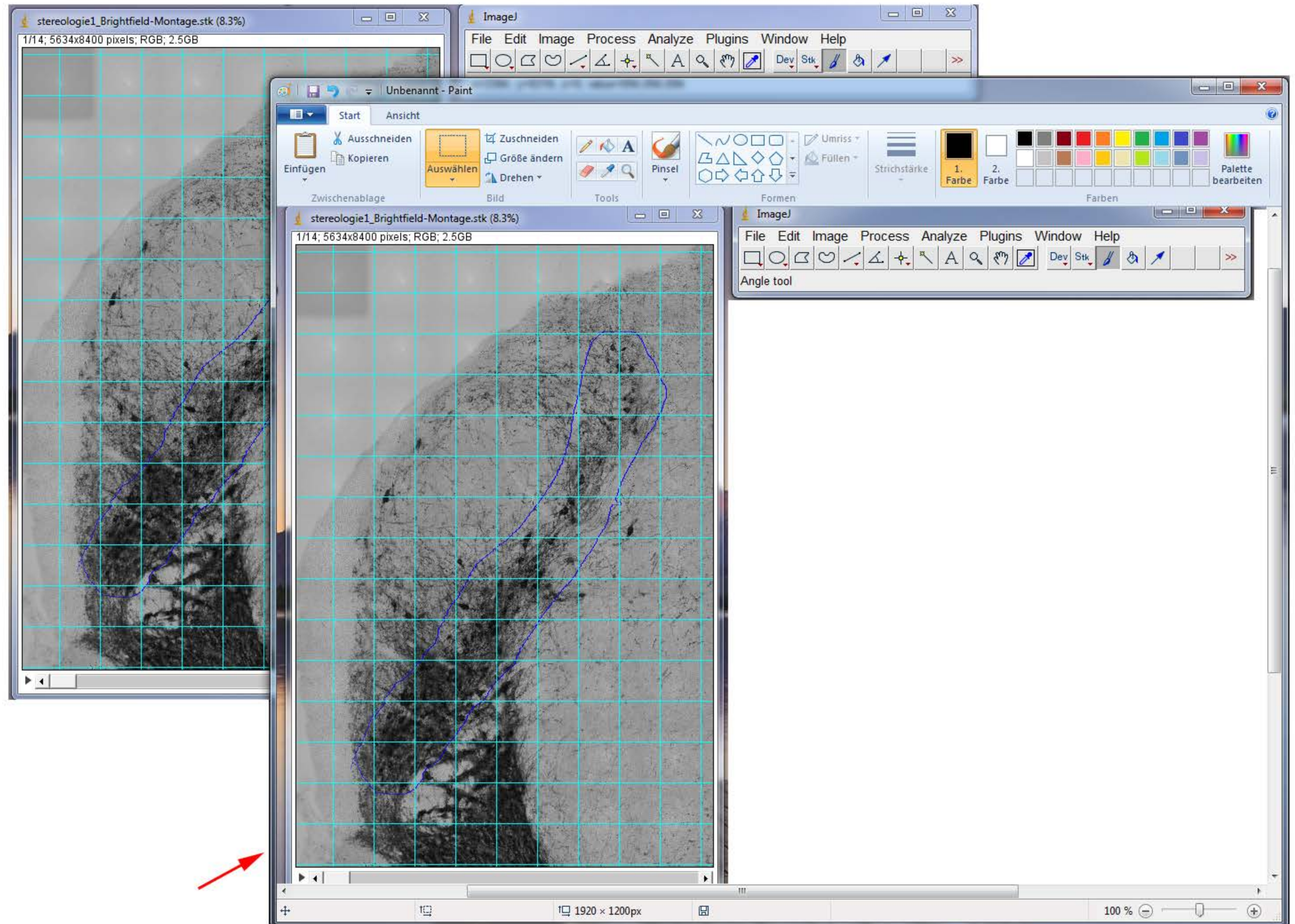


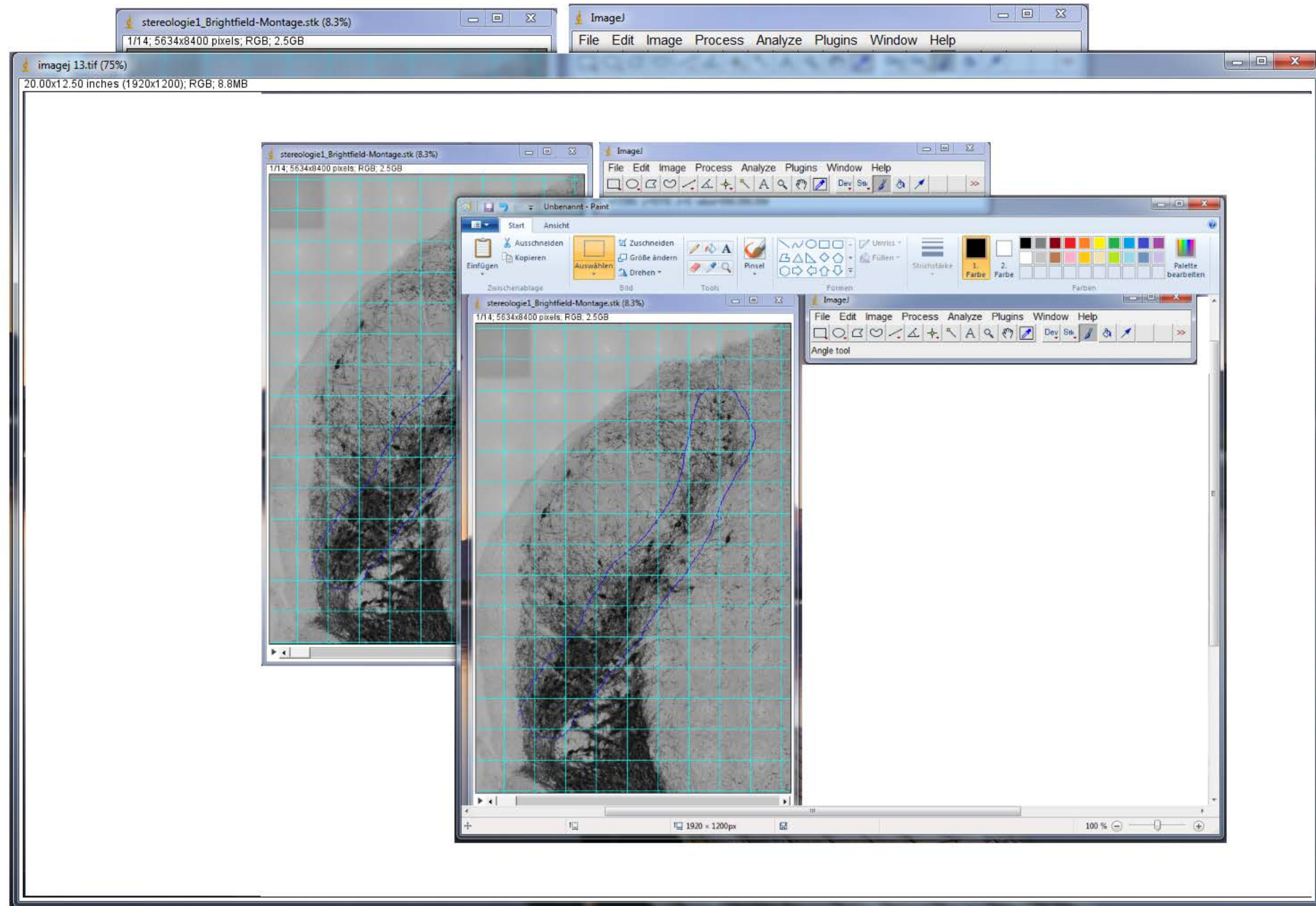
k

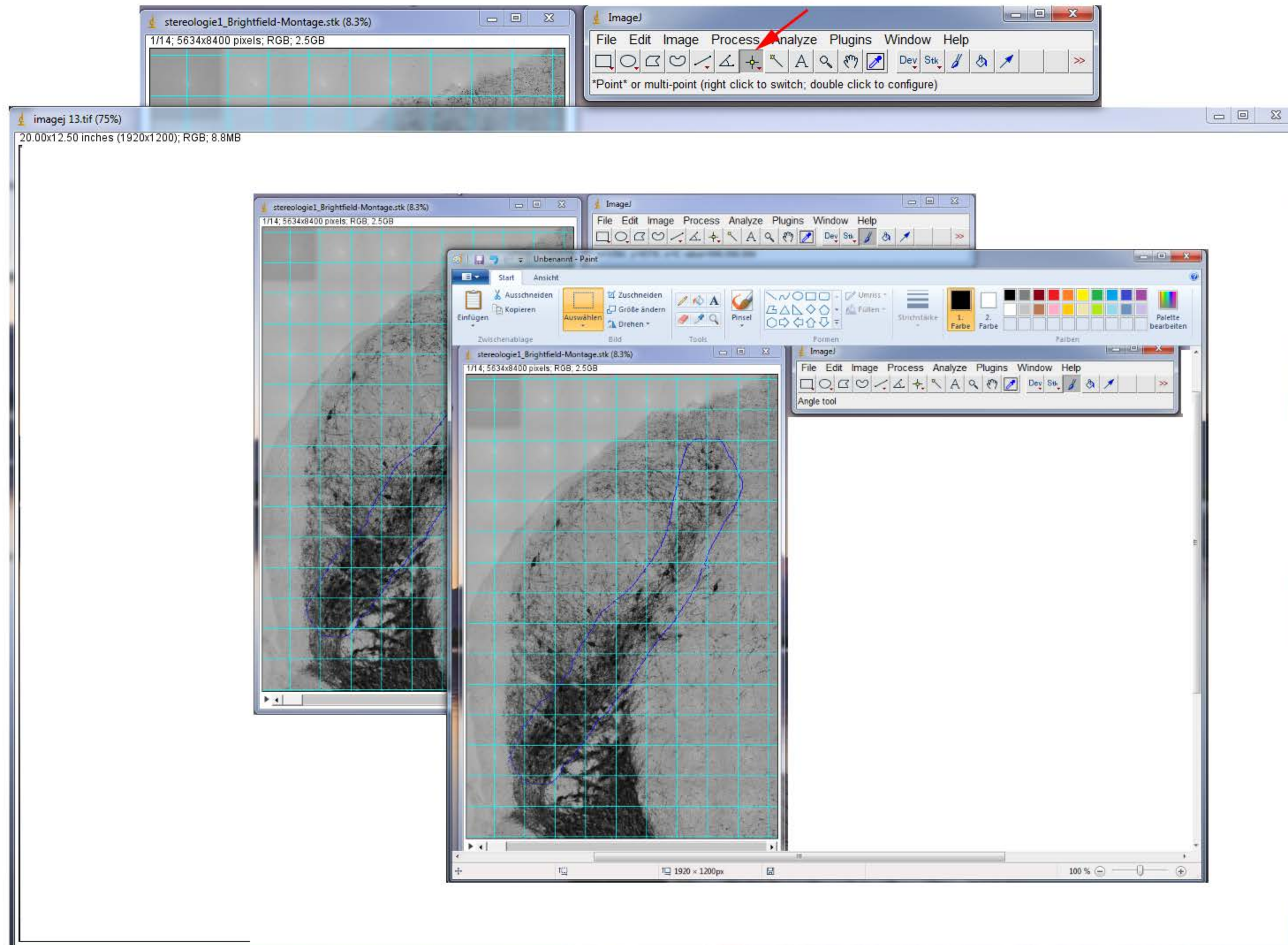




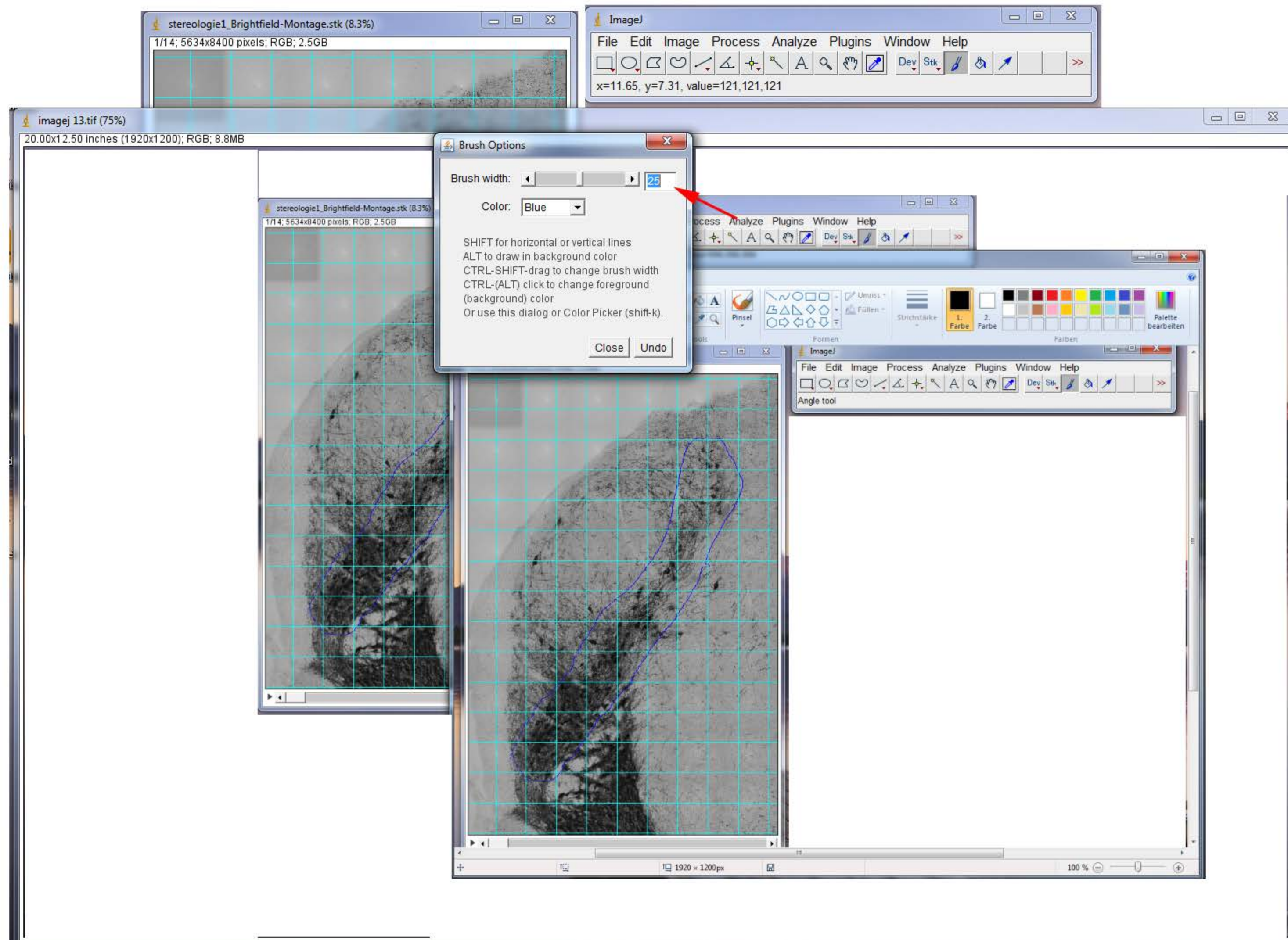
m



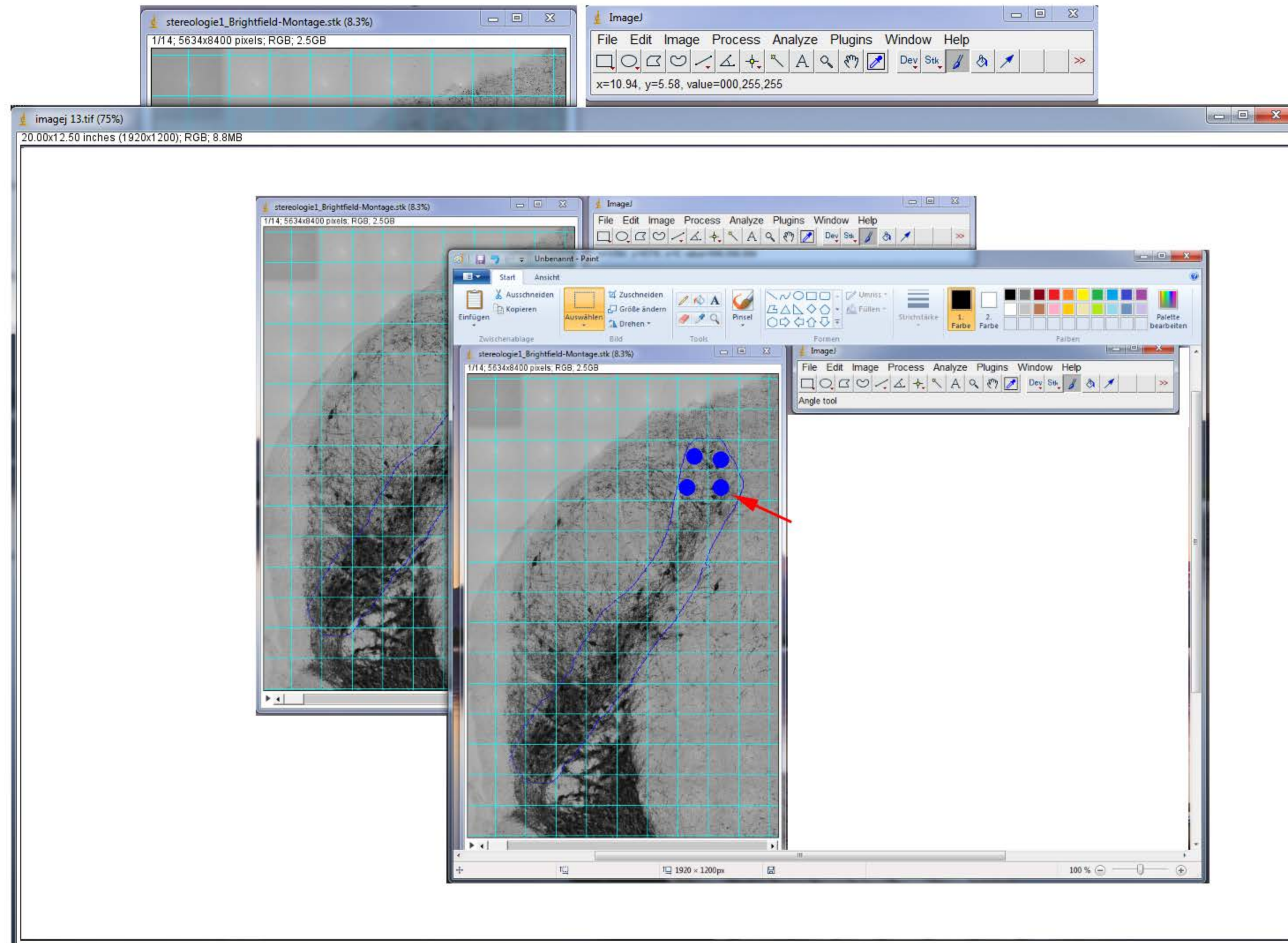




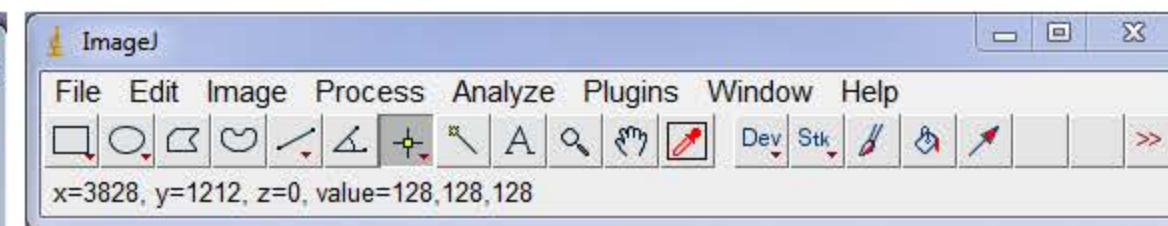
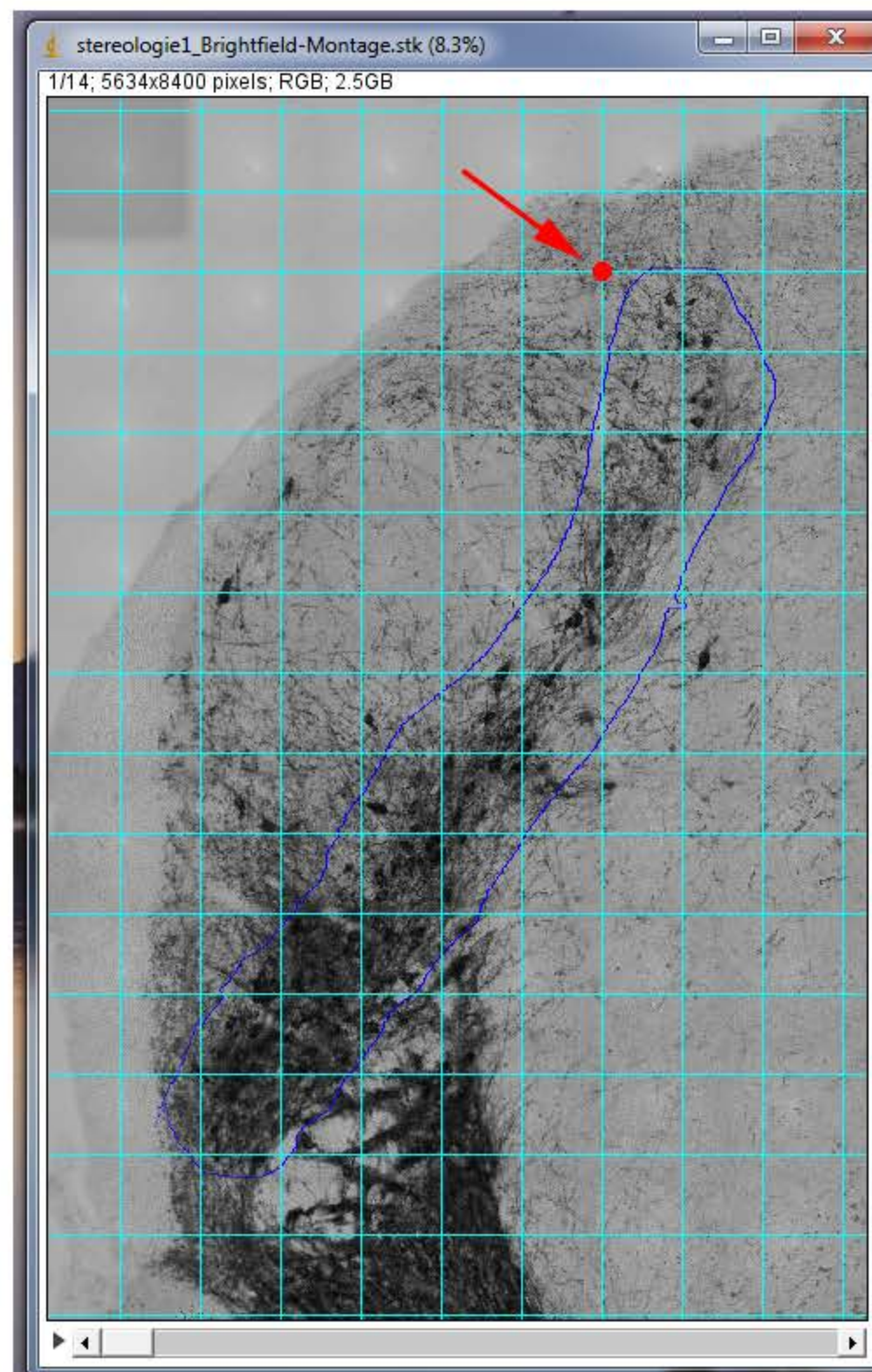
p



q



r



t

stereologie1_Brightfield-Montage.stk (8.3%)
1/14; 5634x8400 pixels; RGB; 2.5GB

ImageJ
File Edit Image Process Analyze Plugins Window Help

Macros
Shortcuts
Utilities
New
Compile and Run...
Install... Strg+Umschalt+M

Install...
Run...
Edit...
Startup Macros...
Record...
About Startup Macros...
Save As JPEG... [J]

optical disector position - Microsoft Excel (Fehler bei...)

Datei Start Menü Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht Add-Ins

Calibri 11 A⁺ A⁻
F K U
Zeilenumbruch
Verbinden und zentrieren
Standard
Zahl

D5 1212

	A	B	C	D	E	F	G
1		μm	pixel				length of optical disector
2		100	425				
3							
4		upper left corner first grid-square	x	3828			length of grid square
5			y	1212			
6							
7		single calculation x,y step of optical disector					
8		steps in x direction (number of squares):					
9		steps in y direction (number of squares):					
10							
11				sample grid number	x	y	
12		coordinates optical disector :		1			
13		coordinates optical disector :		2			
14		coordinates optical disector :		3			
15		coordinates optical disector :		4			
16		coordinates optical disector :		5			
17		coordinates optical disector :		6			
18		coordinates optical disector :		7			
19		coordinates optical disector :		8			
20		coordinates optical disector :		9			
21		coordinates optical disector :		10			
22		coordinates optical disector :		11			
23		coordinates optical disector :		12			
24		coordinates optical disector :		13			
25		coordinates optical disector :		14			
26							
27							
28							
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30							
31							
32							
33							
34							

length (pixel)
212,50 insert number in the opt_dis_grid.txt file in

length (pixel)
552,50

calculation x,y first optical disector

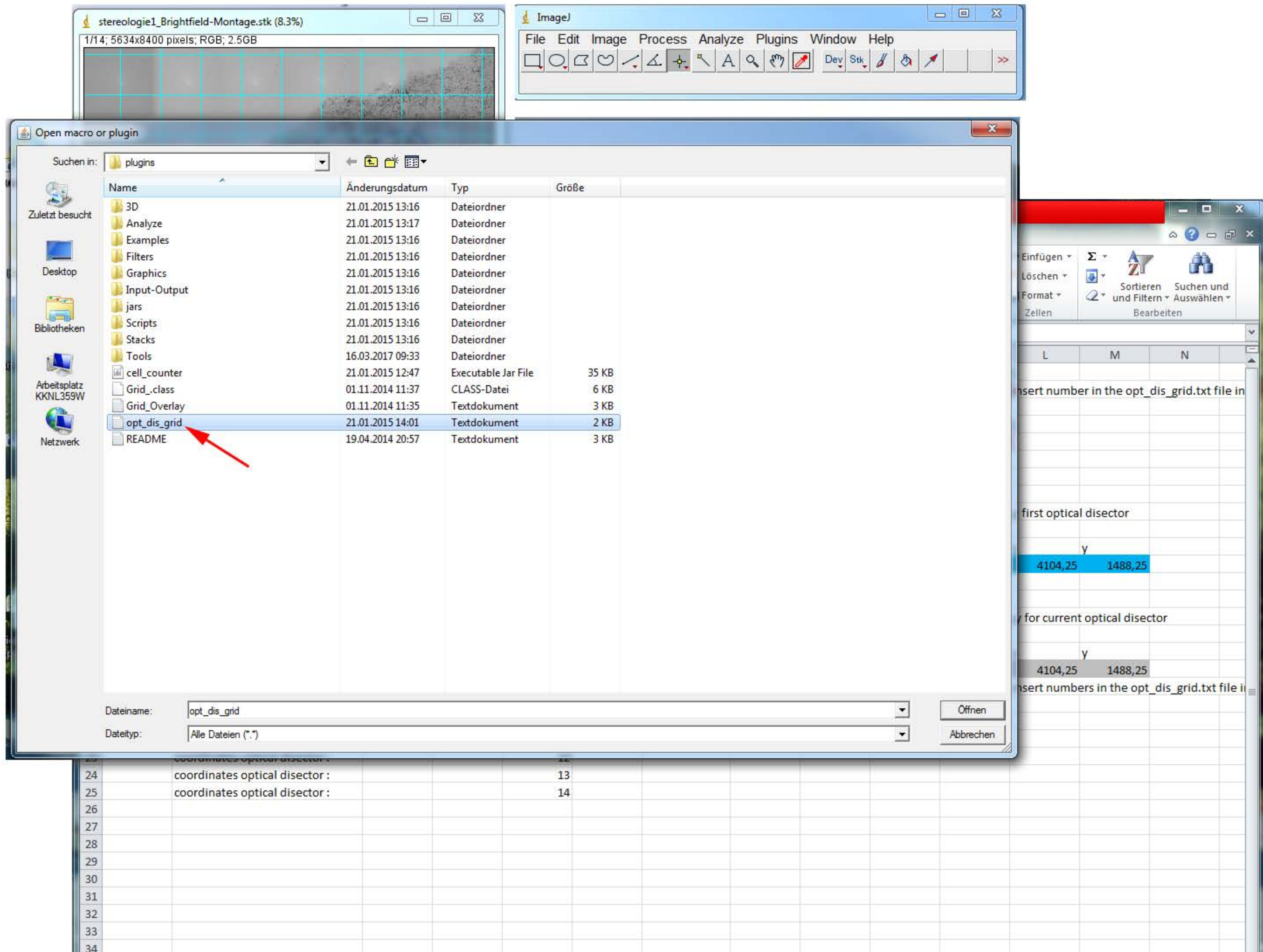
x	y
4104,25	1488,25

calculation x,y for current optical disector

x	y
4104,25	1488,25

insert numbers in the opt_dis_grid.txt file in

U



stereologie1_Brightfield-Montage.stk (8.3%)
1/14; 5634x8400 pixels; RGB; 2.5GB

ImageJ
File Edit Image Process Analyze Plugins Window Help
Scrolling tool (or press space bar and drag)

optical disector position - Microsoft Excel (Fehler bei Produktaktivierung)

Datei Start Menü Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht Add-Ins

Einfügen Calibri 11 A A Zeilenumbruch Standard Bedingte Formatierung Als Tabelle Zellenformatvorlagen Einfügen Löschen Format Zellen Sortieren und Filtern Suchen und Auswählen Bearbeiten

D5 1212

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1		μm	pixel				length of optical disector (one side)			length (μm)	length (pixel)			
2			100	425						50	212,50			insert number in the opt_dis_grid.txt file in
3														
4		upper left corner first grid-square	x	3828			length of grid square (one side)			length (μm)	length (pixel)			
5			y	1212						130	552,50			
6														
7		single calculation x,y step of optical disector												
8		steps in x direction (number of squares):												
9		steps in y direction (number of squares):												
10														
11														
12		coordinates optical												
13		coordinates optical												
14		coordinates optical												
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39														

opt_dis_grid.txt

File Edit Font Macros Debug

```
//Optical Disector Grid.ijm
//simple imageJ implimentation of an optical disector grid for stereological counting
//code written by Christopher S Ward - 2013 for use in ImageJ/FIJI (Wayne Rasband)
//the code is distributed free of use, acknowledgements/citations appreciated if you use/modify the code
//grid is created in center of image and is sized in pixels (modify code below)
//should be compatable with "Cell Counter" plug-in

// user defined parameters
usergrid=212.5;
imagex=4104.25;
imagey=1488.25;
//overlay grid
Overlay.remove;

setColor("red");
//Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*1.5);
Overlay.add;

setColor("green");
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey-usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.add
Overlay.show
```

x y
4104,25 1488,25

on x,y for current optical disector

x y
4104,25 1488,25

insert numbers in the opt_dis_grid.txt file i

stereologie1_Brightfield-Montage.stk (8.3%)
1/14; 5634x8400 pixels; RGB; 2.5GB

ImageJ
File Edit Image Process Analyze Plugins Window Help
Scrolling tool (or press space bar and drag)

optical disector position - Microsoft Excel (Fehler bei Produktaktivierung)

Datei Start Menü Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht Add-Ins

Calibri 11 A A F K U Zeilenumbruch Standard Einfügen Löschen Sortieren und Filtern Suchen und Auswählen Bearbeiten

Zwischenablage Schriftart Ausrichtung Zahl Formatvorlagen Zellen

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1		μm	pixel				length of optical disector (one side)			length (μm)	length (pixel)			
2			100	425						50	212,50			insert number in the opt_dis_grid.txt file in
3														
4		upper left corner first grid-square	x	3828			length of grid square (one side)			length (μm)	length (pixel)			
5			y	1212						130	552,50			
6														
7		single calculation x,y step of optical disector												
8		steps in x direction (number of squares):												
9		steps in y direction (number of squares):												
10														
11														
12		coordinates optical												
13		coordinates optical												
14		coordinates optical												
15		coordinates optical												
16		coordinates optical												
17		coordinates optical												
18		coordinates optical												
19		coordinates optical												
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37														
38														
39														

opt_dis_grid.txt

File Edit Font Macros Debug

Run Macro Strg+R
Evaluate Line Strg+Y
Abort Macro
Install Macros Strg+I
Macro Functions... Strg+Umschalt+M
Function Finder... Strg+Umschalt+F
Evaluate JavaScript Strg+J
Evaluate BeanShell Strg+Umschalt+B
Evaluate Python Strg+P
Show Log Window Strg+Umschalt+L

stereological counting
FIJI (Wayne Rasband)
ns appreciated if you use/modify the code
fy code below)

```
//Optical Disector
//simple imageJ
//code written by
//the code is distributed
//grid is created in
//should be complete

// user defined parameters
usergrid=212.5;
imagex=4104.25;
imagey=1488.25;
//overlay grid
Overlay.remove;

setColor("red");
//Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*1.5);
Overlay.add;

setColor("green");
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey-usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.add
Overlay.show
```

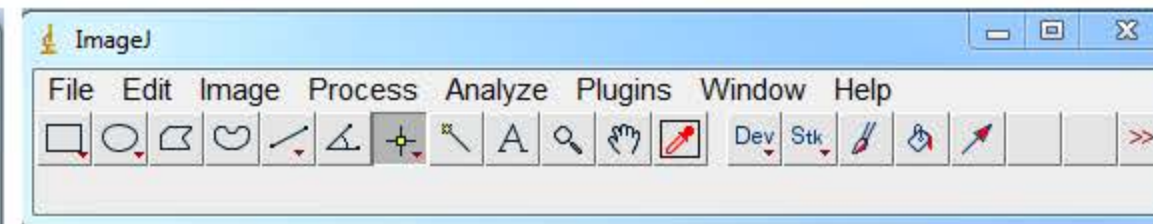
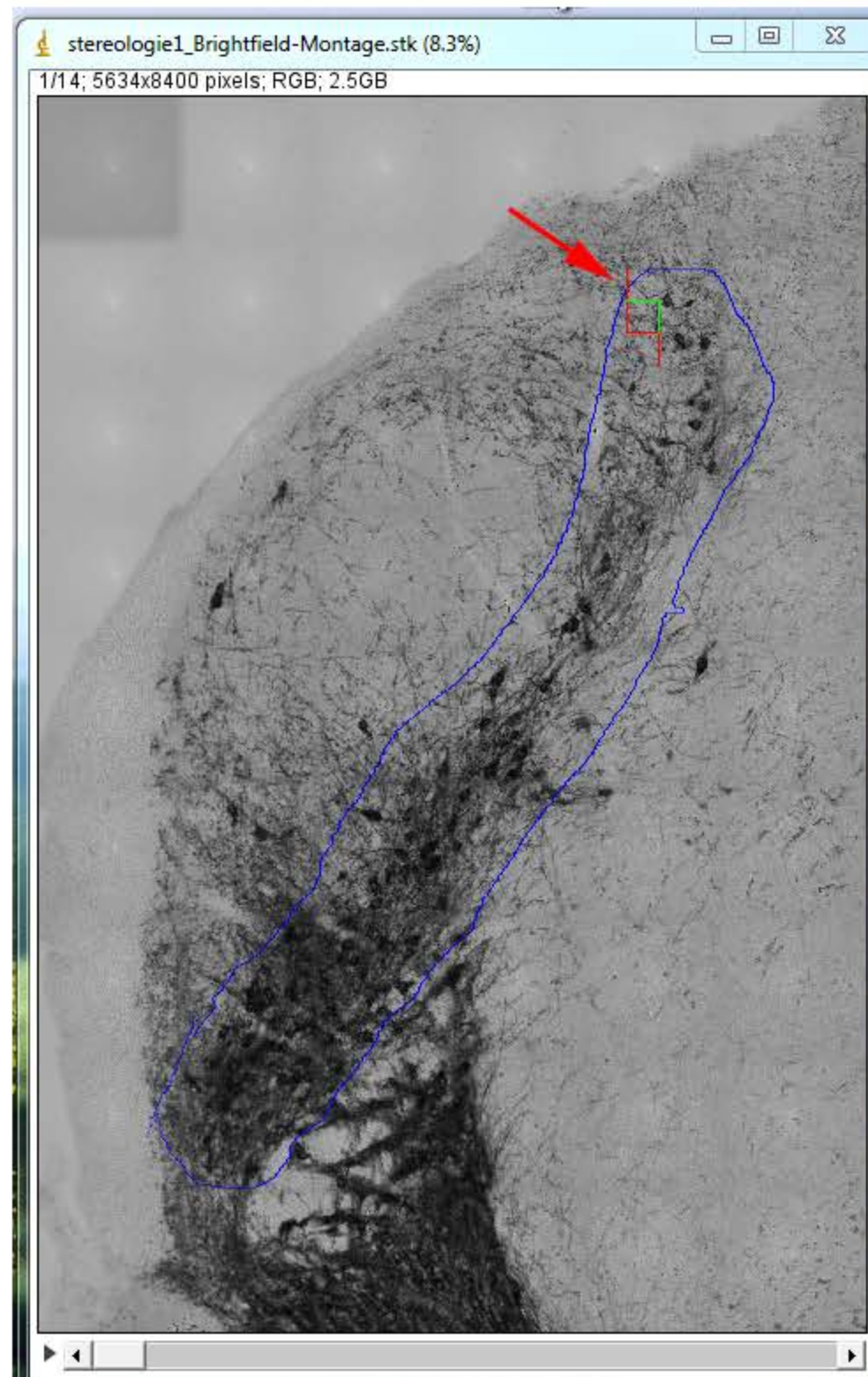
x y
4104,25 1488,25

on x,y for current optical disector

x y
4104,25 1488,25

insert numbers in the opt_dis_grid.txt file in

X



opt_dis_grid.txt

File Edit Font Macros Debug

```
//Optical Disector Grid.ijm
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imagex=4104.25;
imagey=1488.25;
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//Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*1.5,imagex-usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex-usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey+usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*1.5);
Overlay.add;

setColor("green");
Overlay.drawLine(imagex-usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey-usergrid*0.5);
Overlay.drawLine(imagex+usergrid*0.5,imagey-usergrid*0.5,imagex+usergrid*0.5,imagey+usergrid*0.5);
Overlay.add
Overlay.show
```

y

