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# OPEN ACCESS



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## **External link:**

https://www.mbfbioscience.com/h elp/stereo\_investigator/Default.ht

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Protocol status: Working

## Stereology-mediated cell count using StereoInvestigator

Forked from Stereology-mediated cell count using StereoInvestigator



In 1 collection

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### **ABSTRACT**

Protocol for cell counting using StereoInvestigator software.

#### **MATERIALS**

MBF Bioscience StereoInvestigator v. 2019.1.3 (64 bits) Software (Micro Brightfield)

## protocols.io

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PROTOCOL integer ID: 94113

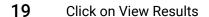
- 1 Set slide properly on the microscope and set new reference point
- 2 Click on Probes  $\rightarrow$  Optical Fractionator Workflow  $\rightarrow$  Start a new subject  $\rightarrow$
- 3 Enter cut thickness: 30 μm (cut with cryostat)
- 4 Enter interval according to the thickness: 5 if SNpc, 6 if STR
- 5 In Select Low Mag Lens, click 5X
  - 5.1 Click on Next Step
- 6 Select the Contour of Interest(s)

- 11 12
  - Enter: 240x200  $\mu m$  if SNpc, 620 x 490  $\mu m$  if STR
    - 11.1 Click on Display Changes
    - 11.2 Click on Next Step
  - In Optical Disector Height enter:  $5 \mu m$ ,  $20 \mu m$ 
    - 12.1 Click on Next Step
  - 13 Select your first section
    - 13.1 Click on Yes
  - 14 Select the desired region

	14.1	Click on start counting
15	Focus on	the tissue
	15.1	Click on OK
16	Select a number of markers according to the desired cell types  Note	
	IMPOR <sup>3</sup>	<b>TANT 1:</b> Count only the cells with visible nucleus within the square <b>TANT 2:</b> If a cell touches a line of the counting frame: if it touches the green line, count the cell; if es a red line, do <b>not</b> count it.
17	Count eve	ry defined region from every set section
	17.1	Click on Next Step
	17.2	Click on Display Probe Run List

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Note

**IMPORTANT:** Verify that interval corresponds to the interval set in Step 3

- 20 Click on the different markers to see the number of cells counted and the estimated cell number
  - 20.1 Click on CE Scheaffer to view the area if needed
  - 20.2 Repeat steps 17 through 20.1 for each region