**Scale correction**

*We followed the exact same procedure for both glia and neurons. Specifically, the figures from the respective published articles were downloaded and opened in Paint, which is a standard Windows application. The value of a scale bar in the article was noted and then the pixel-count length of the scale bar was measured followed by the pixel-count height of the cell in that figure. The L-Measure derived height of the same cell shown in that figure was then noted and used to compute the scale correction, if any. For example, if the scale bar reported in the article is 50 µm, the scale bar is 15 pixel-long, height of the cell in pixels is 83, and nominal height reported by L-Measure is 95.24 µm, then the following calculations are performed: 15 is 5.53 times of 83, so 50 µm x 5.53 = 276.5 µm (this is the Height). Then 276.5/95.24 = 2.9032, so ABEL and Height should be multiplied by 2.9032. All size related morphometric features were corrected, namely Width, Length, Euclidean distance, path distance, diameter, surface, volume, and ABEL.*

**Glia**

1. **Xiong**   
   **PMID 34330901**  
   Scale bar in the article = 20 µm  
   Pixel for scale bar = 124 pixel  
   Height of the cell in pixel = 302 pixel  
   Nominal height reported = 237.32 µm  
     
   124 is 2.43 times of 302, so 20 µm x 2.43 = 48.6 µm (this is the Height)  
   48.6/237.32=0.2050, ABEL should be multiplied by 0.2050

**Neurons**

1. **Firestein**

**PMID 25542305**

Scale bar in the article 50 µm  
Pixel of scale bar = 76 pixel  
Height of the cell in pixel = 323 pixel  
Nominal height reported = 474.15 µm  
  
76 is 4.25 times of 323, so 50 µm x 4.25 = 212.5 µm (this is the Height)  
212.5/474.15 = 0.4482, ABEL should be multiplied by 0.4482

**PMID 29982499**

Scale bar in the article 50 µm  
Pixel of scale bar = 70 pixel  
Height of the cell in pixel = 273 pixel  
Nominal height reported = 27.24 µm  
  
70 is 3.9 times of 273, so 50 µm x 3.9 = 195 µm (this is the Height)  
195/27.24 = 7.1586, ABEL should be multiplied by 7.1586

**PMID** **32157575**

Scale bar in the article 100 µm  
Pixel of scale bar = 83 pixel  
Height of the cell in pixel = 188 pixel  
Nominal height reported = 28.79 µm  
  
83 is 2.265 times of 188, so 100 µm x 3.34 = 226.5 µm (this is the Height)  
226.5/28.79 = 7.8675, ABEL should be multiplied by 7.8675

1. **Moons   
   PMID** **34073191**

Scale bar in the article 20 µm  
Pixel of scale bar = 36 pixel  
Height of the cell in pixel = 399 pixel  
Nominal height reported = 174.54 µm  
  
36 is 11.08 times of 399, so 20 µm x 11.09 = 221.8 µm (this is the Height)  
221.8/174.54=1.2710, ABEL should be multiplied by 1.2710

1. **Wong\_Silver   
   PMID 30074985**

Scale bar in the article 50 µm  
Pixel of scale bar = 68 pixel  
Height of the cell in pixel = 423 pixel  
Nominal height reported = 208.5 µm  
  
68 is 6.22 times of 423, so 50 µm x 6.22 = 311 µm (this is the Height)  
311/208.5= 1.4920, ABEL and Height should be multiplied by 1.4920

1. **Manica\_Leon**

**PMID 32633719**

Scale bar in the article 50 µm  
Pixel of scale bar = 71 pixel  
Height of the cell in pixel = 475 pixel  
Nominal height reported = 124.82 µm

71 is 6.69 times of 475, so 50 µm x 6.69 = 334.5 µm (this is the Height)  
334/124.82= 2.6760, ABEL and Height should be multiplied by 2.6760

1. **Wadiche   
   PMID 21490706**   
   Scale bar in the article 20 µm  
   Pixel of scale bar = 72 pixel  
   Height of the cell in pixel = 420 pixel  
   Nominal height reported = 96.19 µm

72 is 5.83 times of 420, so 20 µm x 5.83 = 116 µm (this is the Height)  
111/96.19= 1.1540, ABEL and Height should be multiplied by 1.1540

1. **Cai   
   PMID 30715234**

Scale bar in the article 50 µm  
Pixel of scale bar = 15 pixel  
Height of the cell in pixel = 83 pixel  
Nominal height reported = 95.24 µm  
  
15 is 5.53 times of 83, so 50 µm x 5.53 = 276.5 µm (this is the Height)  
276.5/95.24 = 2.9032, ABEL and Height should be multiplied by 2.9032

1. **Summavielle   
   PMID** **28274785**

Scale bar in the article 20 µm  
Pixel of scale bar = 22 pixel  
Height of the cell in pixel = 233 pixel  
Nominal height reported = 37.04 µm  
  
22 is 10.59 times of 233, so 20 µm x 10.59 = 211.8 µm (this is the Height)  
211.8/37.04 = 5.7120, ABEL and Height should be multiplied by 5.7120