**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. **Zheng   
   PMID 30415998**

Scale bar in the article = 5 µm  
Pixel for scale bar = 33 pixel  
Height of the cell in pixel = 186 pixel  
Nominal height reported = 249.47 µm  
  
33 is 5.63 times of 186, so 5 µm x 5.63 = 28.1 µm (this is the Height)  
28.1/249.47=0.1130, ABEL should be multiplied by 0.1130

1. **Foerster   
   PMID 29162696**Scale bar in the article = 10 µm  
   Pixel for scale bar = 37 pixel  
   Height of the cell in pixel = 367 pixel  
   Nominal height reported = 345.58 µm  
     
   37 is 9.91 times of 367, so 10 µm x 9.91 = 99.1 µm (this is the Height)  
   99.1/345.58= 0.2870, ABEL should be multiplied by 0.2870
2. **Di Benedetto   
   PMID 26869881**Scale bar in the article = 20 µm  
   Pixel for scale bar = 34 pixel  
   Height of the cell in pixel = 50 pixel  
   Nominal height reported = 222.35 µm  
     
   34 is 1.47 times of 50, so 20 µm x 1.65625 = 29.411 µm (this is the Height)  
   29.411/222.35= 0.1323, ABEL should be multiplied by 0.1323
3. **Wake   
   PMID 31862977**Scale bar in the article = 10 µm  
   Pixel for scale bar = 20 pixel  
   Height of the cell in pixel = 115 pixel  
   Nominal height reported = 360.78 µm  
     
   20 is 5.75 times of 115, so 10 µm x 5.75 = 57.5 µm (this is the Height)  
   57.5/360.78= 0.1594, ABEL should be multiplied by 0.1594
4. **Maguire-Zeiss   
   PMID 28921719**  
   Scale bar in the article = 10 µm  
   Pixel for scale bar = 37 pixel  
   Height of the cell in pixel = 89 pixel  
   Nominal height reported = 339.08 µm  
     
   37 is 2.405 times of 89, so 10 µm x 2.405= 24.05 µm (this is the Height)  
   24.05/339.08= 0.0710, ABEL should be multiplied by 0.0710
5. **Rusakov   
   PMID 30177844**Scale bar in the article = 10 µm  
   Pixel for scale bar = 24 pixel  
   Height of the cell in pixel = 201 pixel  
   Nominal height reported = 358.16 µm  
     
   24 is 8.375 times of 201, so 10 µm x 8.375 = 83.75 µm (this is the Height)  
   83.75/358.16= 0.2338, ABEL should be multiplied by 0.2338
6. **H\_Zhang   
   PMID 30654821**Scale bar in the article = 20 µm  
   Pixel for scale bar = 38 pixel  
   Height of the cell in pixel = 128 pixel  
   Nominal height reported = 334.26 µm  
     
   38 is 3.36 times of 128, so 20 µm x 3.36 = 67.36 µm (this is the Height)  
   67.36/334.26= 0.2015, ABEL should be multiplied by 0.2015
7. **Weil   
   PMID 26833850**Scale bar in the article = 20 µm  
   Pixel for scale bar = 78 pixel  
   Height of the cell in pixel = 81.9 pixel  
   Nominal height reported = 30.57 µm  
     
   78 is 1.05 times of 81.9, so 20 µm x 1.05 = 21.17 µm (this is the Height)  
   21.17/30.57= 0.6926, ABEL should be multiplied by 0.6926
8. **Fernandez-Ruiz   
   PMID 30076846**

Multiply by 0.65 & Divide by 2

**NEURONS**

1. **Cox**

**PMID: 21811639**

Scale bar in the article = 50 µm  
Pixel for scale bar = 118 pixel  
Height of the cell in pixel = 309 pixel  
Nominal height reported = 473.95 µm  
  
21 is 14.71 times of 309, so 50 µm x 14.71 = 735.71 µm (this is the Height)  
735.71/473.95 = 1.5523, ABEL should be multiplied by 1.5523

**PMID: 30395636**

Scale bar in the article = 100 µm  
Pixel for scale bar = 47 pixel  
Height of the cell in pixel = 292 pixel  
Nominal height reported = 588.73 µm  
  
47 is 6.21 times of 292, so 100 µm x 6.21 = 621 µm (this is the Height)  
621/588.73 1.0553, ABEL should be multiplied by 1.0553

1. **Zhang\_X   
   PMID 28263300**  
   Scale bar in the article = 100 µm  
   Pixel for scale bar = 57 pixel  
   Height of the cell in pixel = 259 pixel  
   Nominal height reported = 92.17 µm  
     
   57 is 4.54 times of 259, so 100 µm x 4.54 = 454.38 µm (this is the Height)  
   454.38/92.17 = 4.9299 ABEL should be multiplied by 4.9299