# Data acquisition parameters

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| Sample | Figures and videos | Sing volume acquisition time (s) | Delay between successive acquisition (s) | Volume size (μm3) |
| Brain slices of Thy1-GFP transgenic mice | Fig. 2(a) | 7 | 0 | 406×406×37 |
| Blood vessels labeled by FITC | Fig. 2(b) | 7 | 0 | 250×250×37 |
| Dendrites and dendritic spines in brain slices of Thy1-GFP transgenic mouse | Fig. 2(c) | 4 | 0 | 88×88×37 |
| *C. elegans embryos* | Fig. 3 and video1 | 1.2 | 15 | 133×133×34 |
| Monocyte/macrophage migration | Fig. 4 and video2 | 2.3 | 0 | 216×216×34 |
| CaMP6s-expressing neurons in wake mice | Fig. 5(a)-(f) and video3 | 1.2 | 0 | 250×250×34 |
| jGCaMP7f-expressing neurons during intramuscular electrical stimulation | Fig. 5(g) | 1.2 | 0 | 260×240×34 |
| jGCaMP7f-expressing neurons in wake mice | Fig. 5(h) | 0.075 | 0 | 178×178×34 |