

Description of Additional Supplementary Files for

descSPIM: an affordable and easy-to-build light-sheet microscope optimized for tissue clearing techniques

Supplementary Movie 1.

3D reconstructed image of PI-stained mouse brain hemisphere, shown in **Fig. 2a**.

Supplementary Movie 2.

3D reconstructed image of PI-stained 2-mm thick mouse brain section, shown in **Fig. 2c**.

Supplementary Movie 3.

Two-color, 3D reconstructed image of PI-stained whole-brain image of *Thy1-YFP-H* Tg mouse, shown in **Fig. 3a**.

Supplementary Movie 4.

Three-color, 3D reconstructed image of Trastuzumab-administered CDX sample, shown in **Fig. 4a**.

Supplementary Movie 5.

The quantitative analysis result of the drug distribution at the central part of the tumor mass, shown in **Supplementary Fig. 19d**.

Max intensity projection images of approximately 100 μm thickness of Trastuzumab-administered CDX sample. FITC-labeled CD31 (yellow) and DyLight 650TM-labeled Trastuzumab (magenta) are shown of the raw images (**a**), and of the processed binarized images (**b**). **c**. Vascular associating (magenta) or non-associating (yellow) with the drug distribution. **d**. The valid distance lines (values within 95th percentile range (gray) and top 5% (cyan), respectively), which are overlaid on the image shown in **c**.

Supplementary Movie 6.

Cross-sectional false-colored hematoxylin and eosin images of CDX sample, shown in **Fig. 4b**.