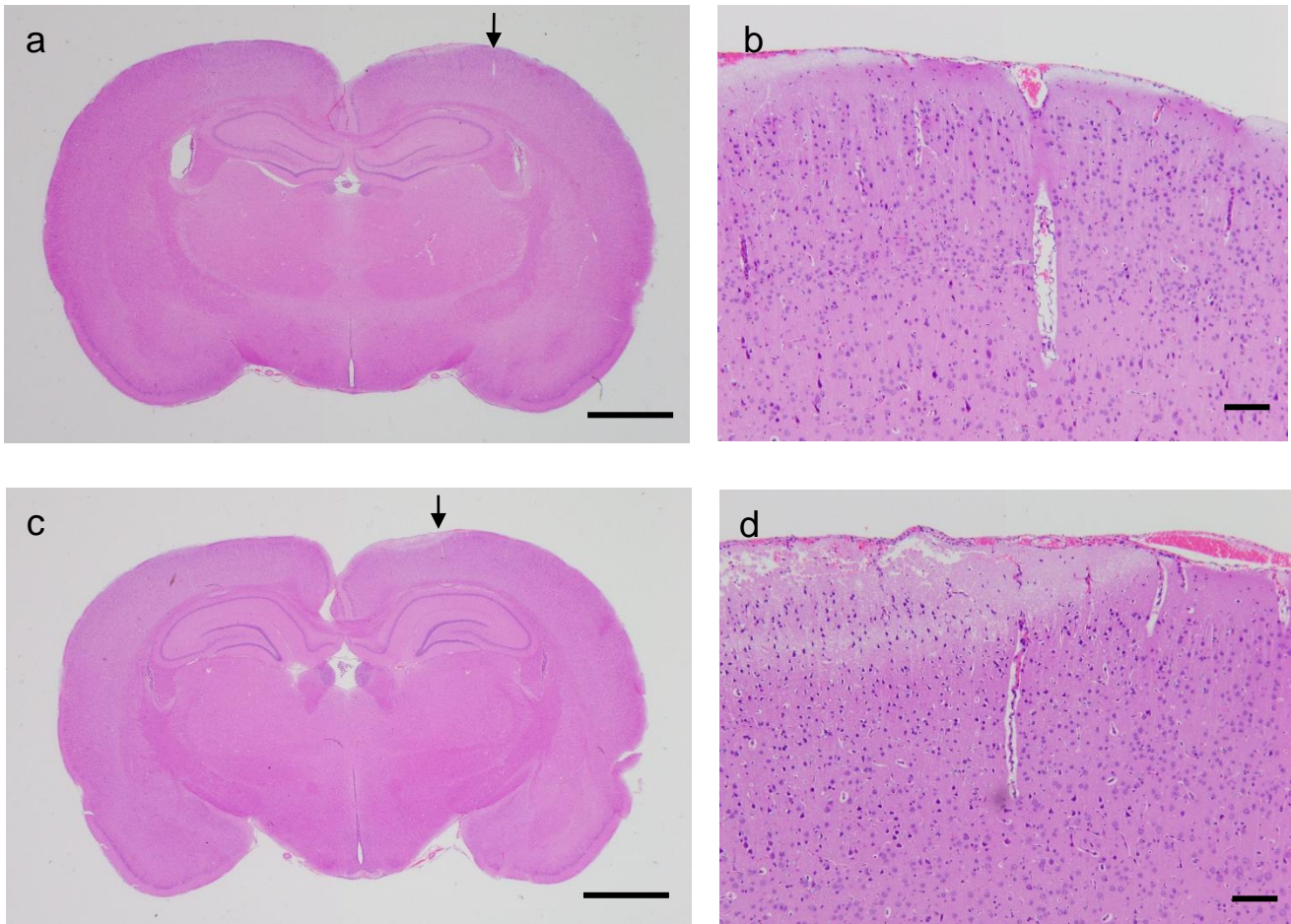


## ***Supplementary information***

*In situ* estimation of optical properties of rat and monkey brains using femtosecond time-resolved measurements

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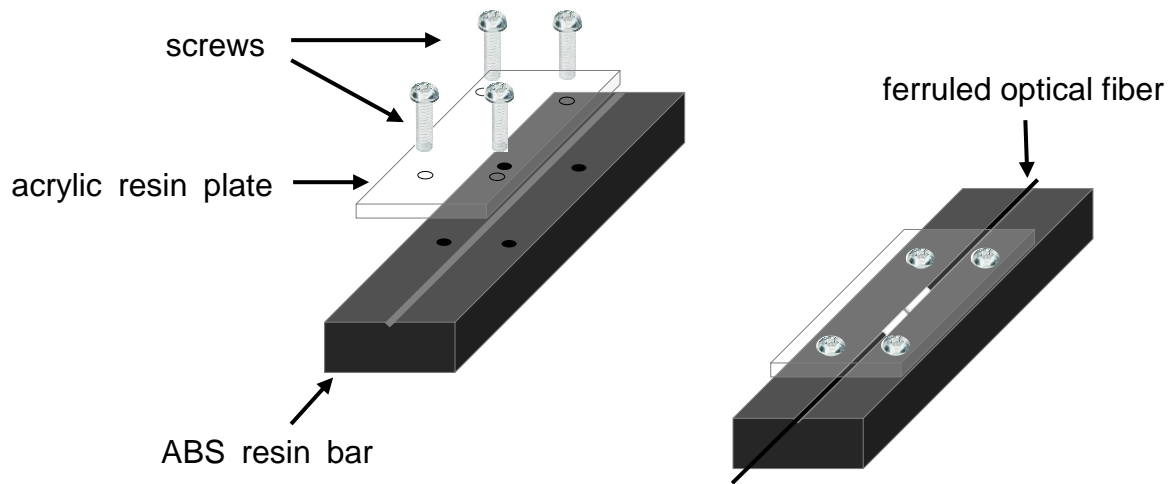
## Supplementary Figure 1



### Supplementary Figure 1 Histological assessment following insertion of optical fibers into the rat brain

Two optical fibers were placed at the right somatosensory area of the rat brain in sagittal direction and inserted into the depth of 1 mm. After euthanasia, the rat brain was removed, formalin-fixed for 24 hours and sectioned to 4  $\mu\text{m}$  thick slices, which were stained with hematoxylin and eosin. **a**, caudal optical fiber track (an arrow); **b**, zoomed area around the caudal optical fiber track; **c**, rostral optical fiber track (an arrow); **d**, zoomed area around the rostral optical fiber track. Bars in **a** and **c** are 2 mm. Bars in **b** and **d** are 100  $\mu\text{m}$ .

**Supplementary Figure 2**



**Supplementary Figure 2 Measuring the instrument response function (IRF)**