BINAREE make visible

Simple protocol with no special equipment

BINAREE TISSUE CLEARING

BINAREE TISSUE CLEARING™ KIT

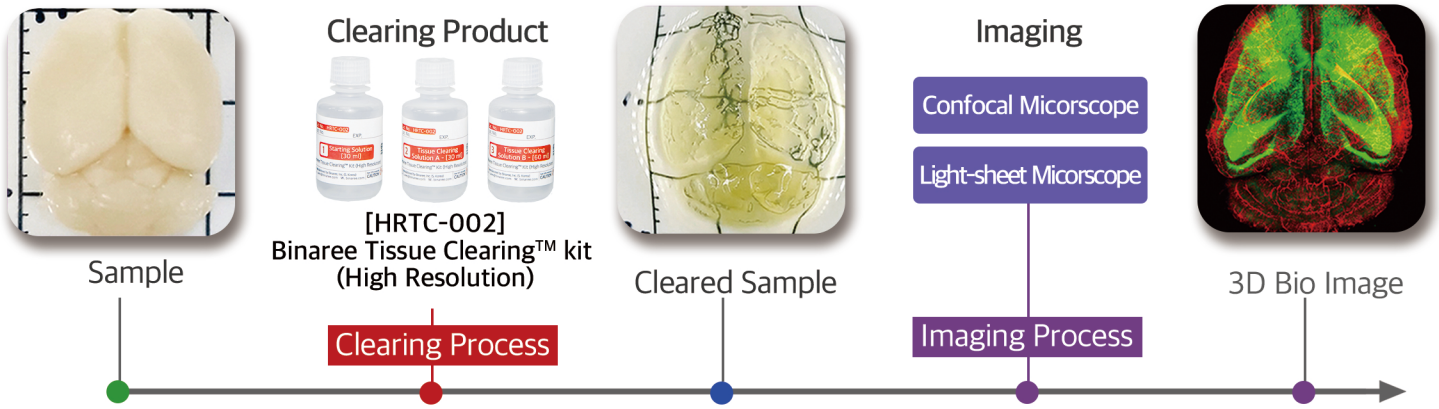
SIMPLE
Simple clearing process

INTACT
Preservation of cell structure

NON-HARMFUL
No organic solvent

REPRODUCIBLE
No special equipment

- Clearing for Deep Tissue Imaging
- High-resolution imaging in deep tissue
- 3D tissue clearing reagent



[Reference]

1. Three-Dimensional Visualization With Tissue Clearing Uncovers Dynamic Alterations of Renal Resident Mononuclear Phagocytes After Acute Kidney Injury. 2022 March doi: 10.3389/fimmu.2022.844919. Front Immunol.
2. Relationship between retinal capillary vessel density of OCT angiography and intraocular pressure in pig. 2021 Apr 11(1):8555. Scientific Reports.
3. Differential Angiogenic Potential of 3-Dimension Spheroid of HNSCC Cells in Mouse Xenograft. 2021 Jul 31;22(15):8245. Int J Mol Sci.
4. Zebrafish as an animal model for biomedical research. 2021 Mar;53(3):310-317. Exp Mol Med.
5. Endogenous DEL-1 restrains melanoma lung metastasis by limiting myeloid cell-associated lung inflammation. 2020 Nov 6;6(45):eabc4882. Sci Adv.

[Binaree Products]

HRTC-002	Binaree Tissue Clearing™ Kit (High Resolution)
SHMS-060	Binaree Mounting & Storage™ Solution - 60 ml

BINAREE make visible
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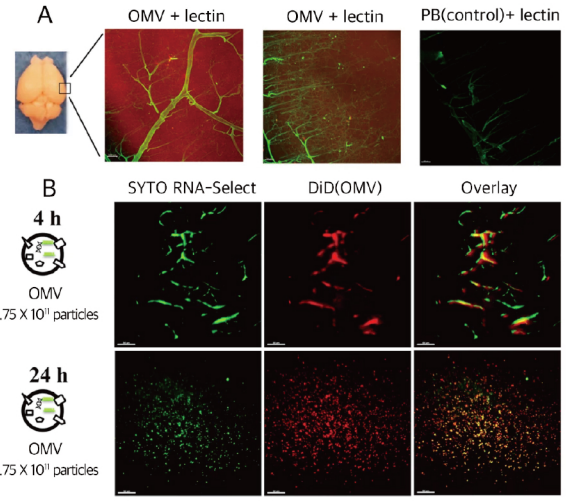
Crossing the Blood-Brain Barrier

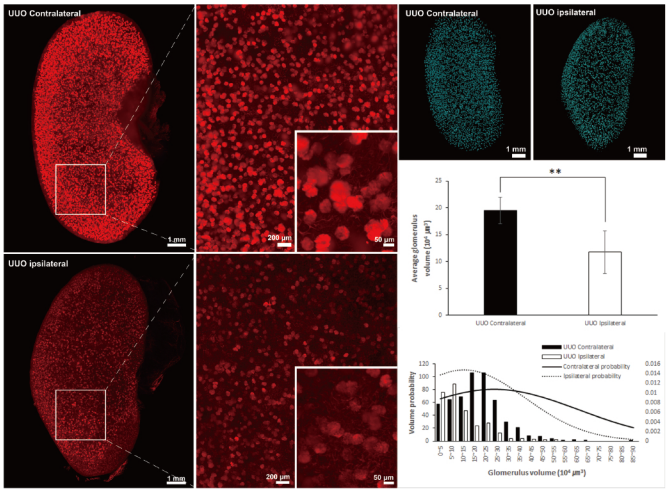
OMVs cross the BBB of mice. 3D lightsheet fluorescence microscopy analysis of the mouse brain (cortex)



Extracellular RNAs in periodontopathogenic outer membrane vesicles promote TNF-α production in human macrophages and cross the blood-brain barrier in mice. 2019 Dec;33(12):13412-13422. FASEB J.

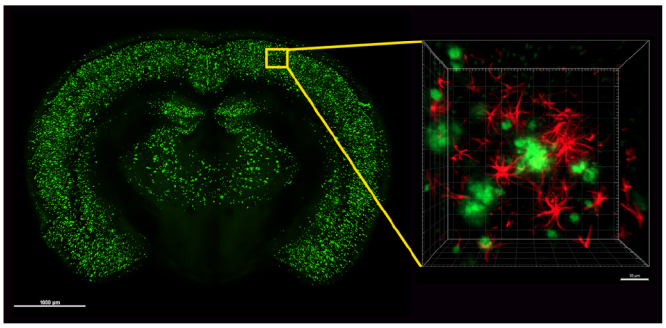
Kidney Injury (UUO model)

3D pathology images and quantitative analysis of glomeruli in UUO model mouse kidneys



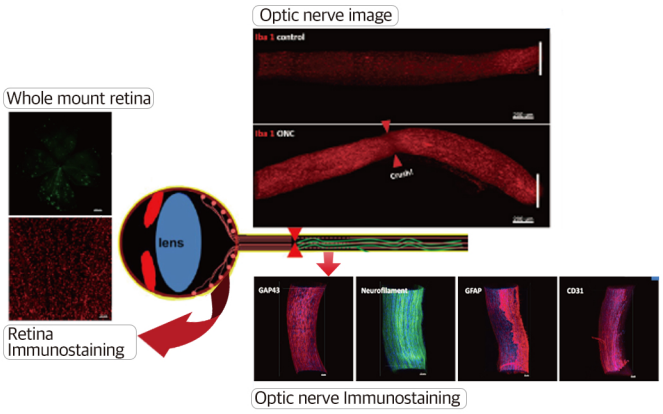
Alzheimer's Disease (5xFAD model)

Confocal image of amyloid-beta plaques (Thioflavin S staining) in 1 mm thick dementia mouse brain



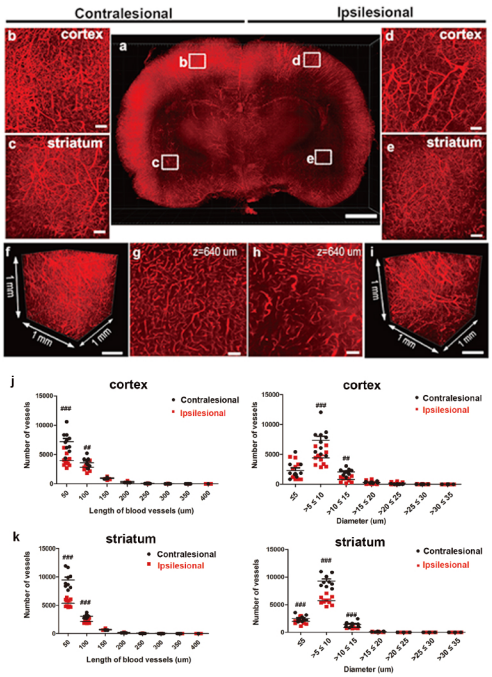
Optic Nerve Crush

3D visualization of whole mount optic nerve



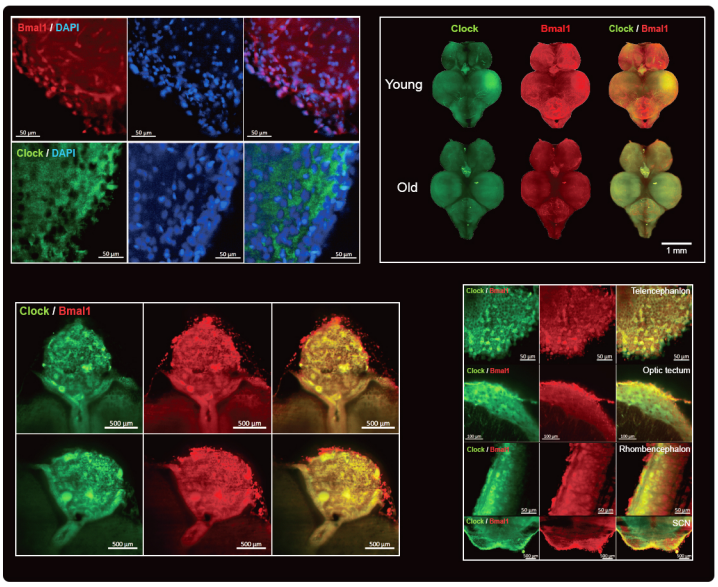
Ischemic Stroke (MCAO model)

3D visualization of the vasculature in rat brain of MCAO model after tissue clearing



Staining of Large Volume Tissue

Whole-brain immunostaining of the turquoise killifish after tissue clearing



The core circadian component, Bmal1, is maintained in the pineal gland of old killifish brain. 2020 Dec 9;24(1):101905. iScience.
Protocol for whole-brain immunostaining of the turquoise killifish after tissue clearing. 2021 May; 2(2):100564. STAR protocols.