

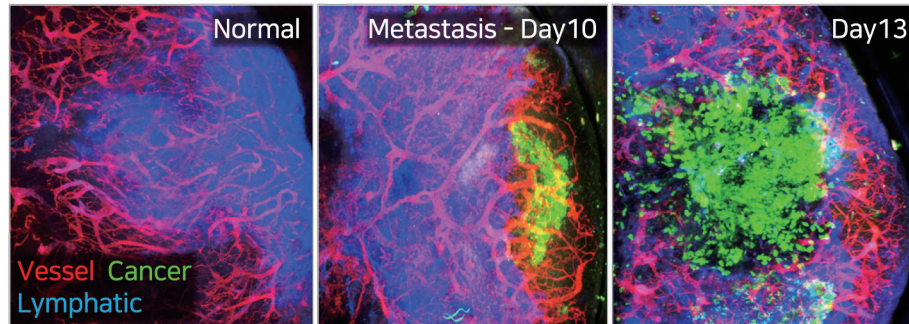
IntraVital Microscopy (IVM)

In Vivo Live Cell Imaging Platform

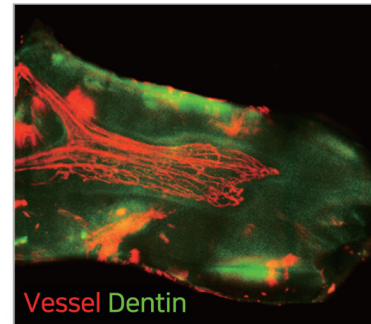
IVIM
TECHNOLOGY

Optical Clearing-based 3D Whole Tissue Imaging

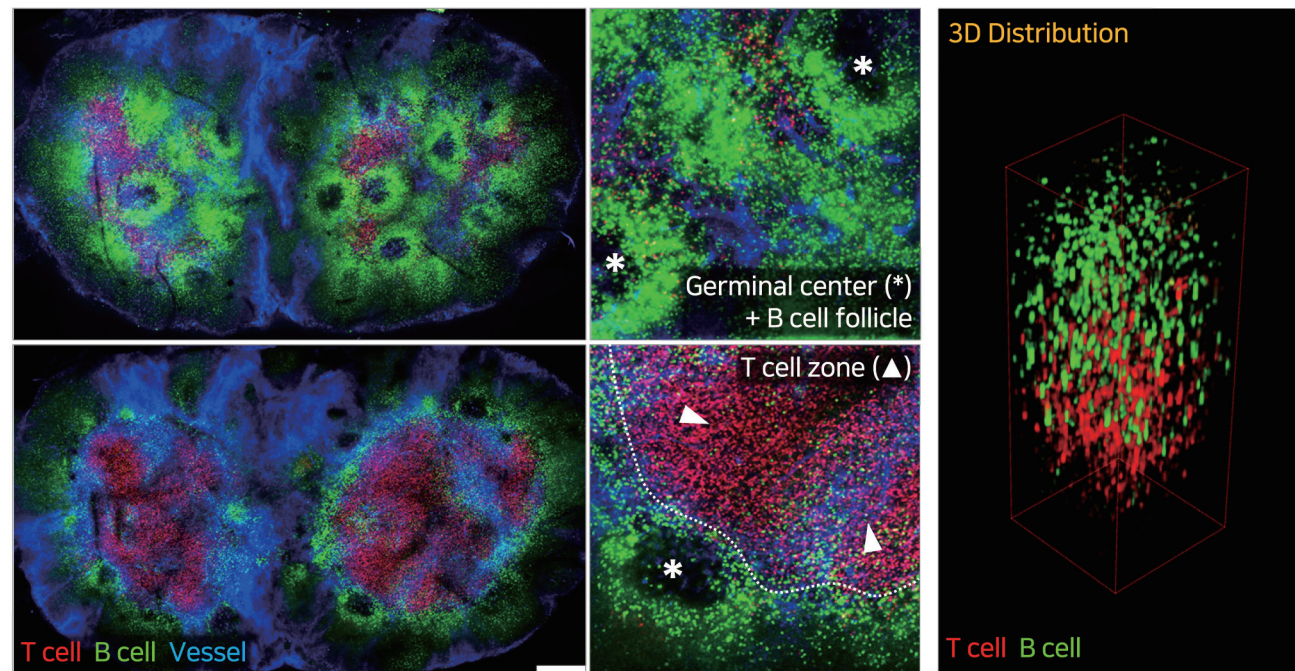
▪ Lymph node (Metastasis)



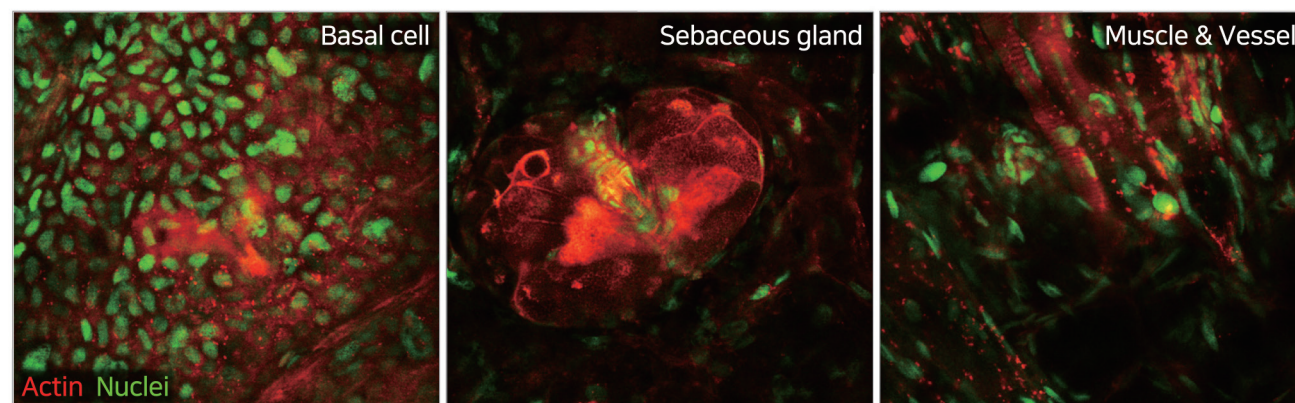
▪ Tooth



▪ Lymph node (Adoptive cell transfer)



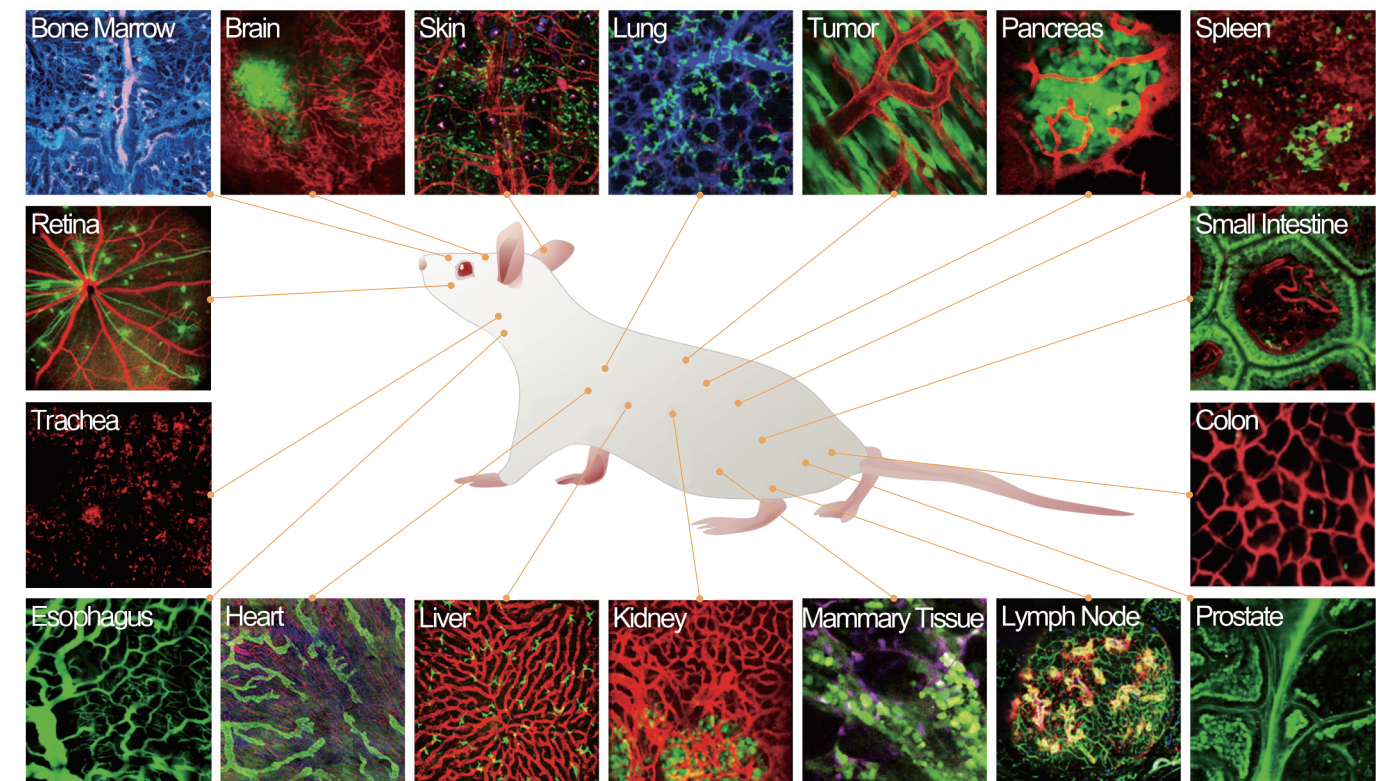
▪ Skin



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+ Thymus, Thyroid gland, Adipose Tissue, Lymphatics, Microcirculation ... etc.

▪ In vivo imaging of various organs in mouse model:

- Liver, lymph node, spleen, skin, retina, lung, brain, colon, pancreas, small intestine, prostate, kidney, heart, trachea, esophagus, bone marrow, thymus, etc.

▪ Image processing & analysis in cellular level:

- Cell dynamics (cell movement, cell trafficking, cell motility, cell homing)
- Cell-cell/ cell-microenvironment/ cell-molecule interaction
- Cell death/survival, cell distribution, cell differentiation

▪ Mouse model of various human disease :

- Xenograft & syngeneic cancer model using fluorescent cancer cell lines (lung / breast / colon / pancreas cancer, glioblastoma, leukemia, melanoma, etc.)
- Acute / chronic inflammation model (systemic injection, organ/tissue injury, ischemia-reperfusion injury)
- Chimera model for intravital imaging of specific cell types (stem cell transplantation, adoptive cell transfer of lymphocyte, etc.)

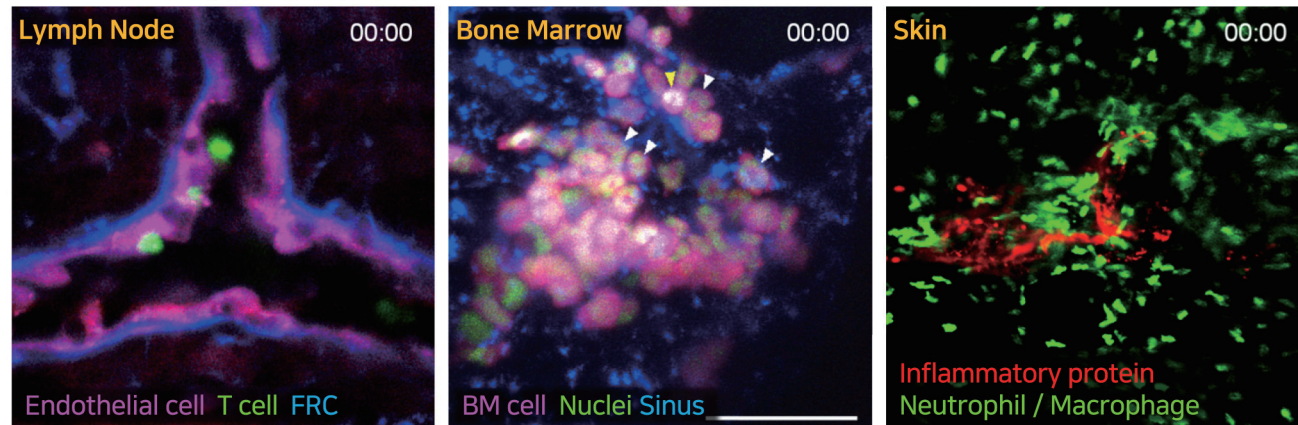
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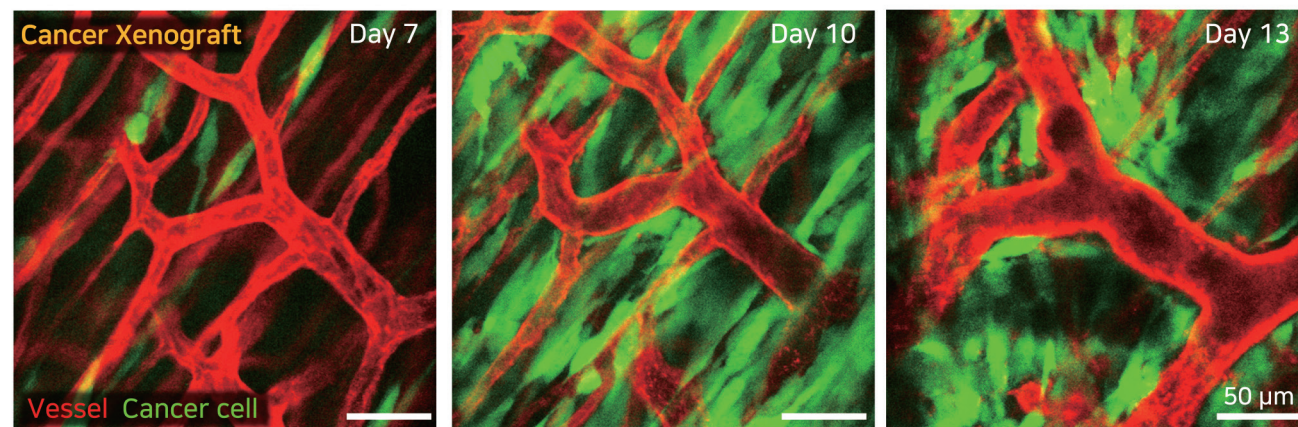
Live Cell Intravital Imaging

- In vivo cell dynamics
- In vivo time-lapse mosaic



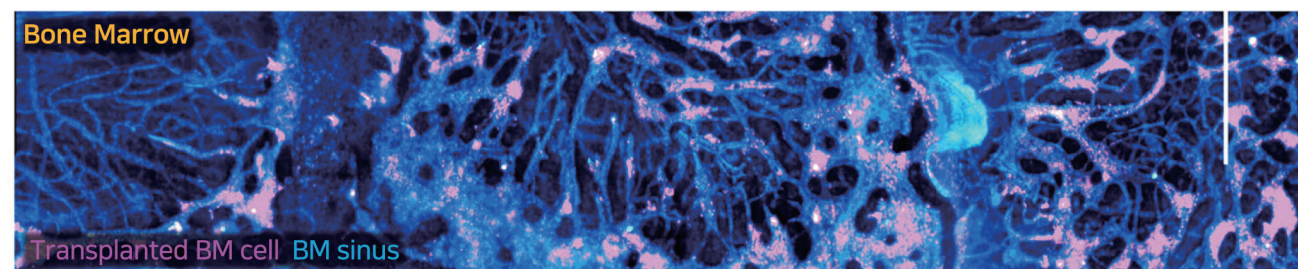
Repetitive Intravital Imaging

- Long-term repetitive imaging using window chamber
- Longitudinal cellular-level imaging



Wide-area Intravital Imaging

- In vivo cellular-level mosaic/three-dimensional imaging



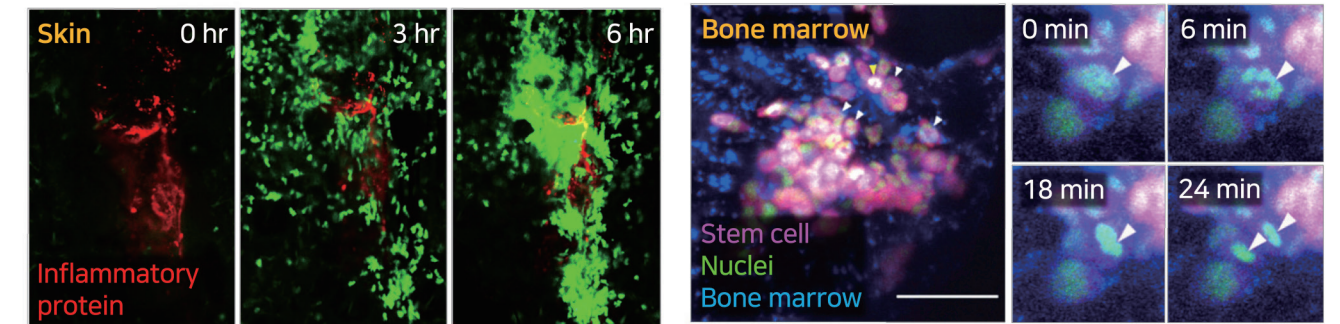
IntraVital Microscopy (IVM)

In Vivo Live Cell Imaging Platform

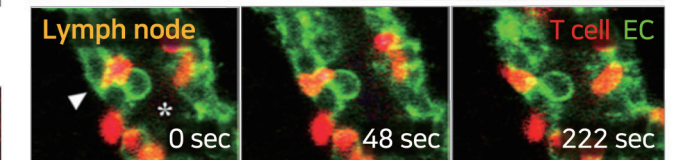
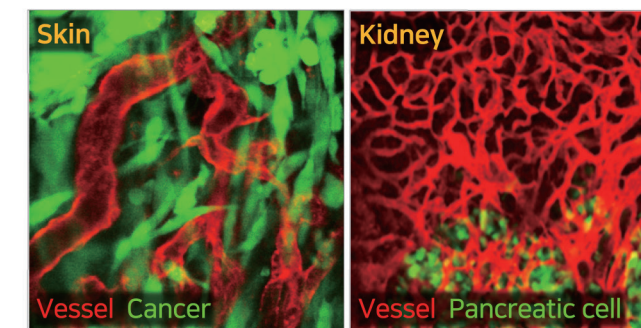
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In Vivo Drug Efficacy Monitoring

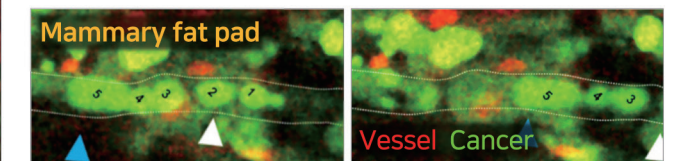
- Immune cell recruitment
- Proliferation & migration



- Angiogenesis

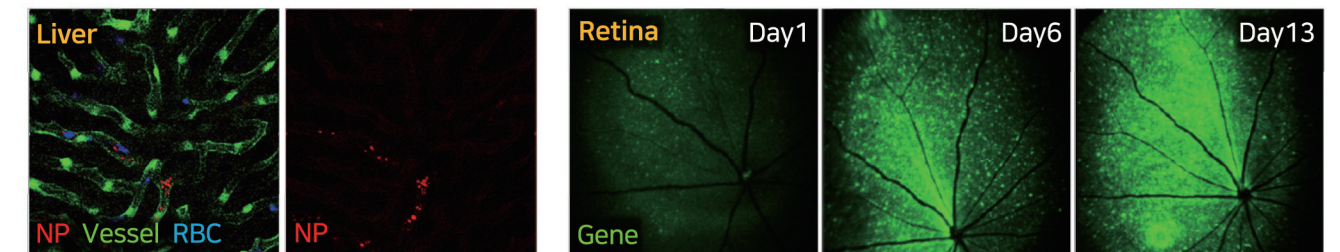


- Tumor metastasis



In Vivo Delivery Monitoring

- Nanoparticle delivery
- Gene delivery



- Uptake & Clearance

