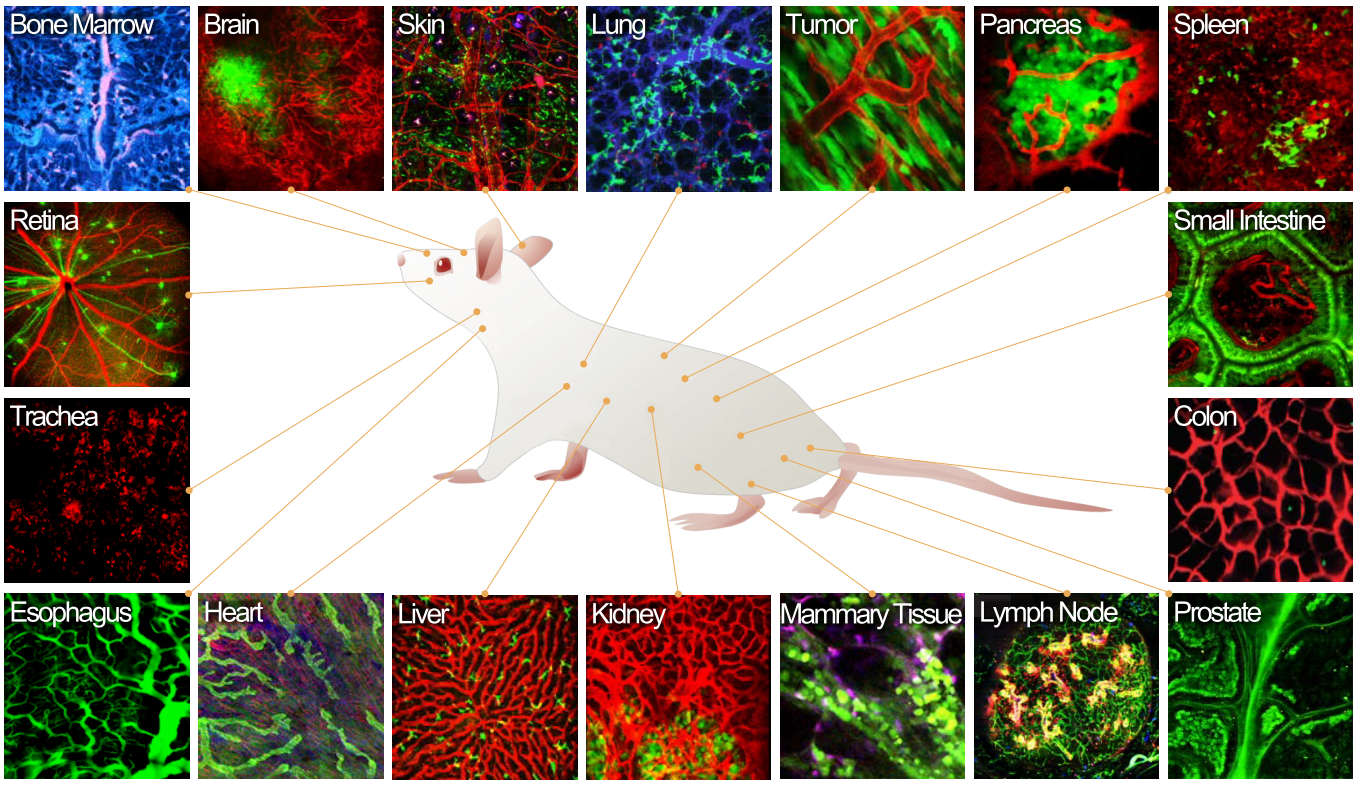
IntraVital Microscopy (IVM)
In Vivo Live Cell Imaging Platform

IVIM TECHNOLOGY



+ 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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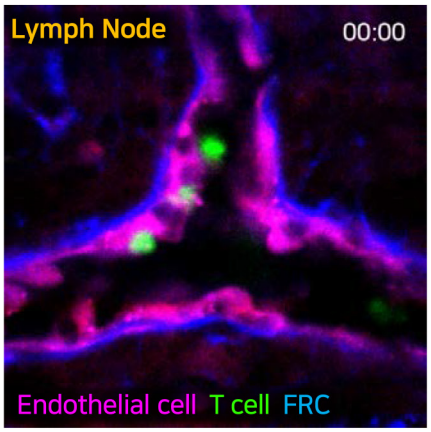
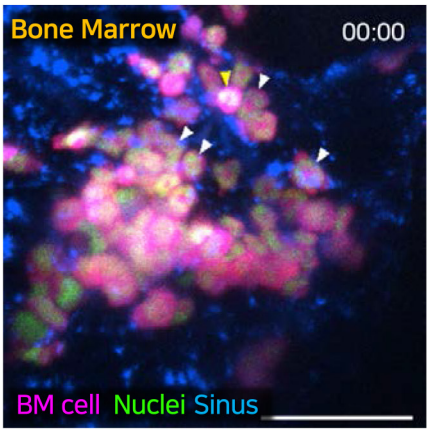
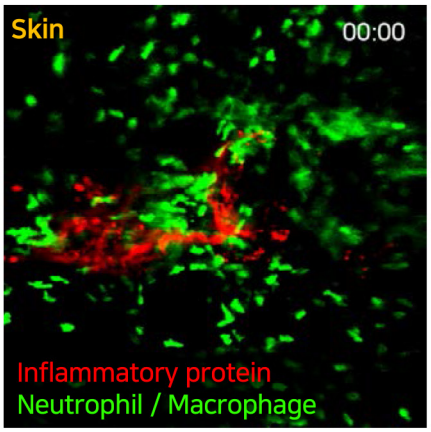
Live Cell Intravital Imaging

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

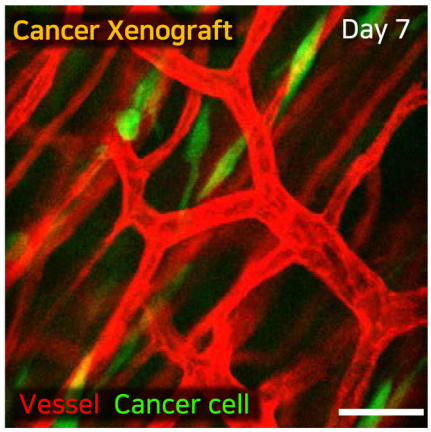


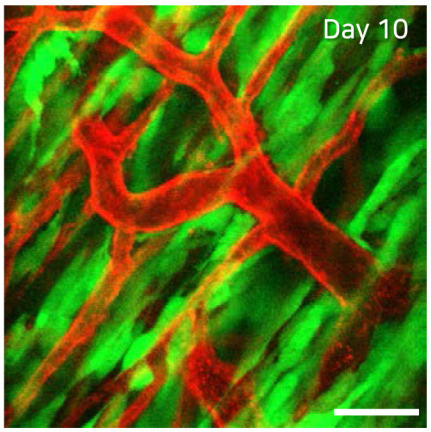


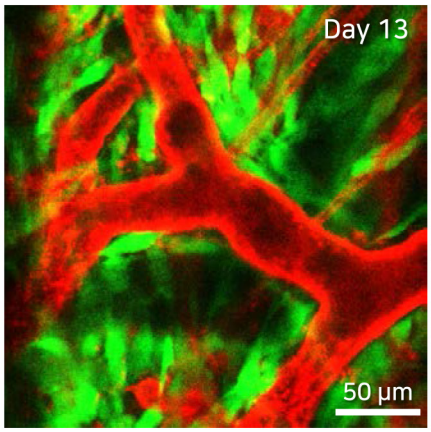


Repetitive Intravital Imaging

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

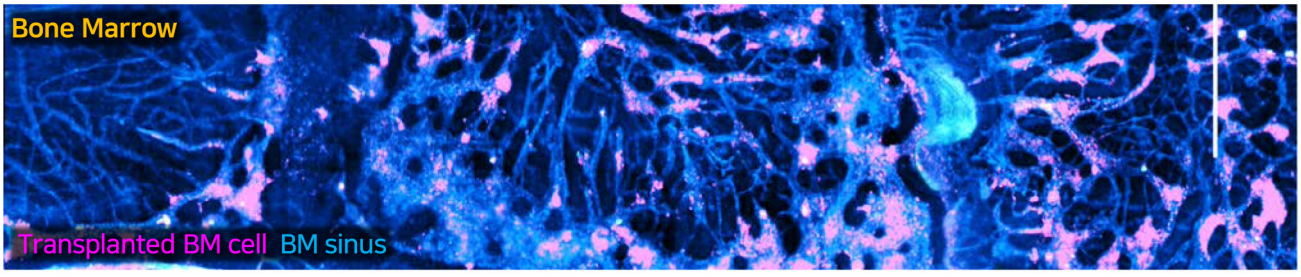






Wide-area Intravital Imaging

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



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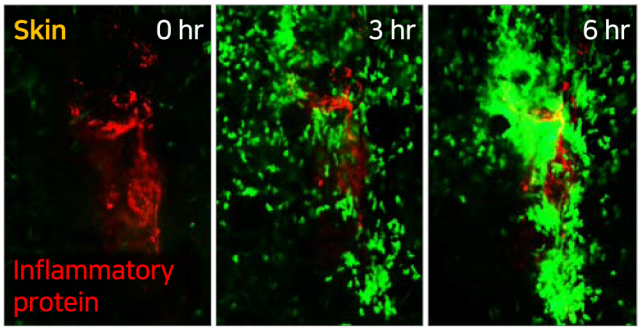
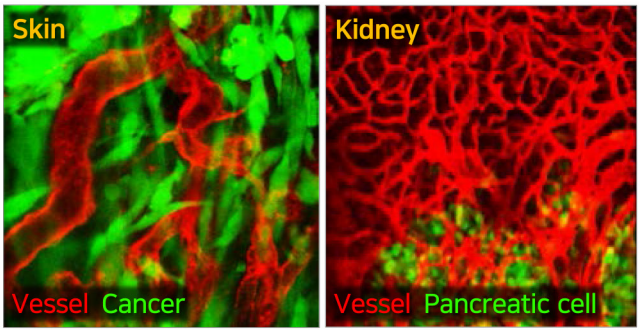
In Vivo Drug Efficacy Monitoring

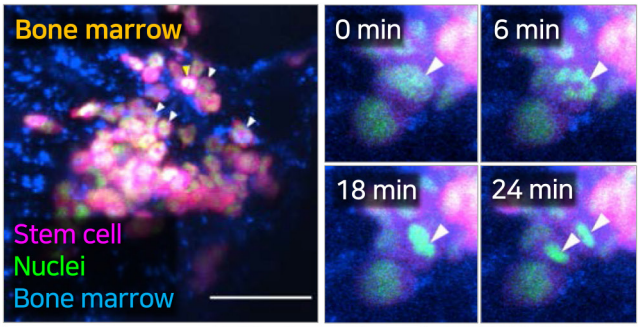
- Immune cell recruitment

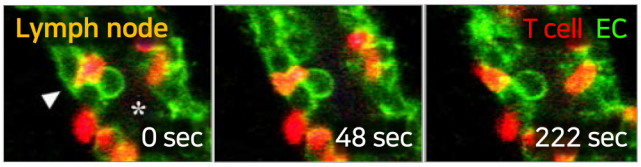


- Angiogenesis

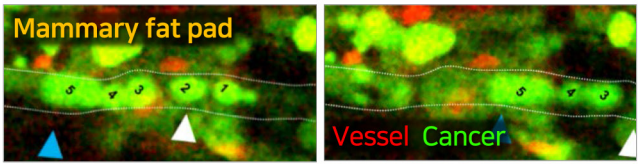


- Proliferation & migration



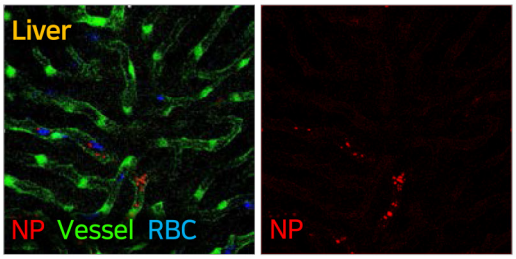


- Tumor metastasis

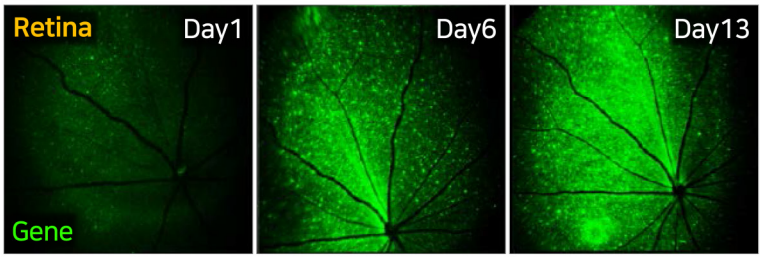


In Vivo Delivery Monitoring

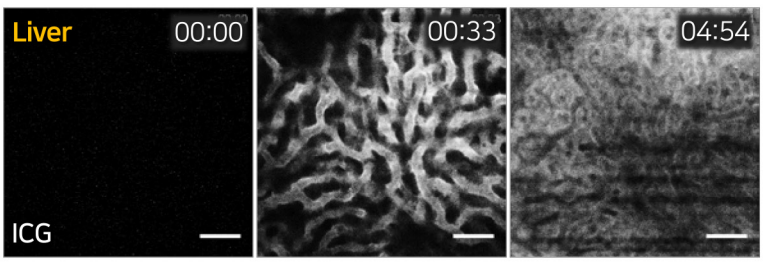
- Nanoparticle delivery

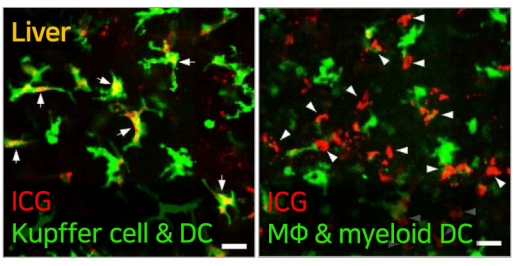


- Gene delivery



- Uptake & Clearance





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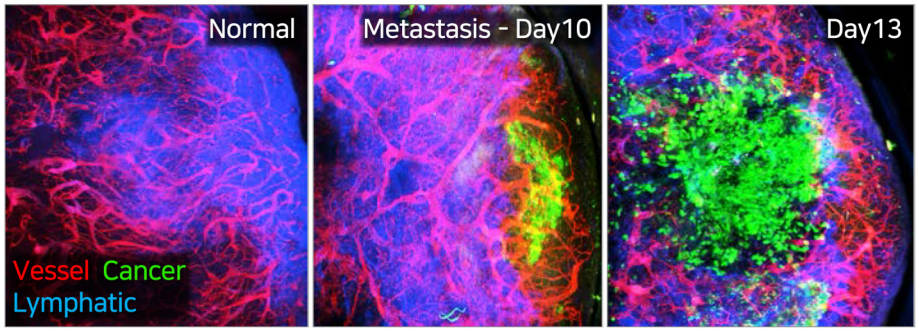
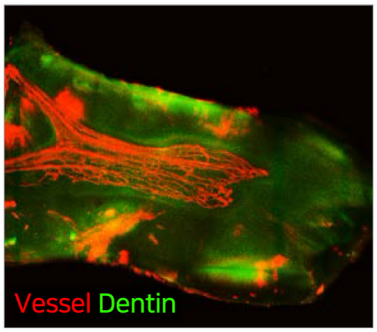
Optical Clearing-based 3D Whole Tissue Imaging

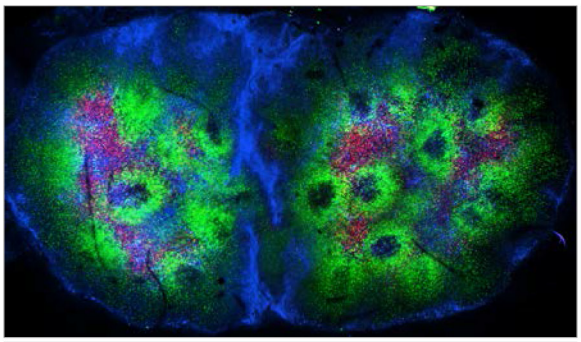
- Lymph node (Metastasis)

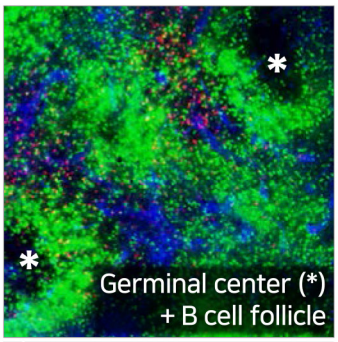


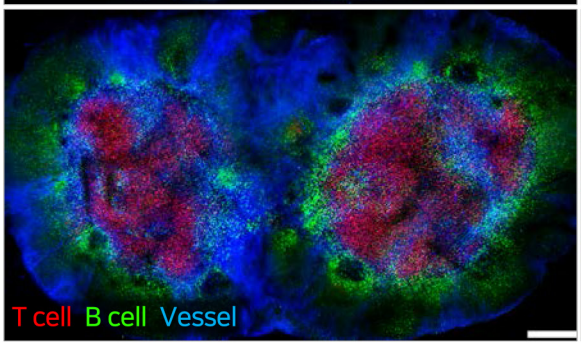
- Tooth

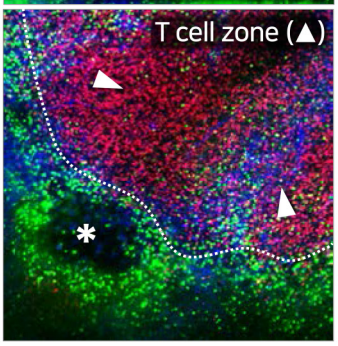


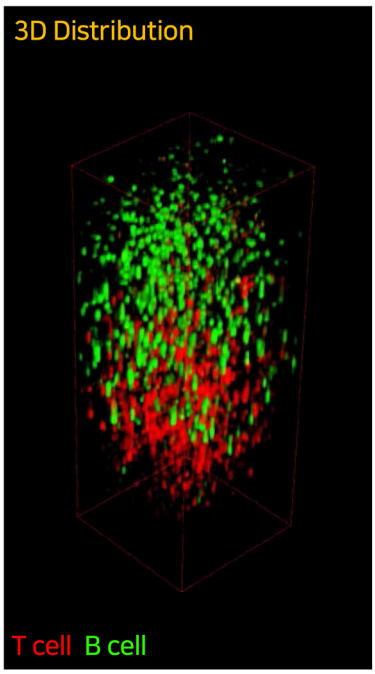
- Lymph node (Adoptive cell transfer)



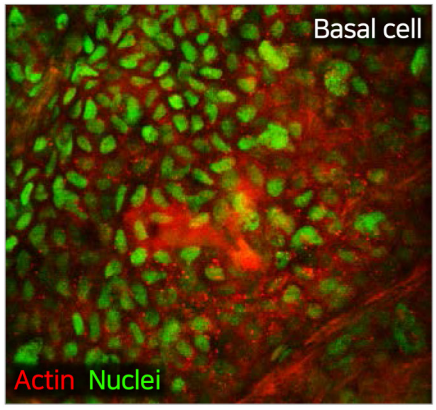


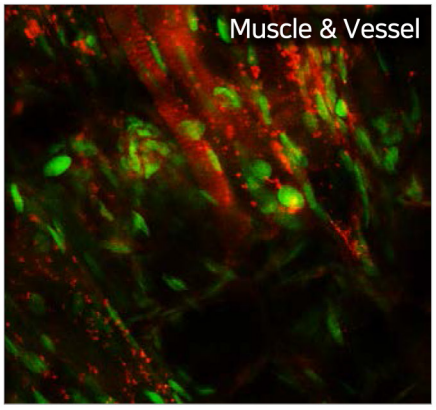






- Skin





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