

IVIM Technology IntraVital Microscopy (IVM)

References

1. Ahn, S., Yoon, J., & Kim, P. (2024). Intravital imaging of cardiac tissue utilizing tissue-stabilized heart window chamber in live animal model. *European Heart Journal - Imaging Methods and Practice*, 2(1). <https://doi.org/10.1093/EHJIMP/QYAE062>
2. Chen, S., Li, K., Chen, X., Lei, S., Lin, J., & Huang, P. (2024). Reversibly photoswitchable protein assemblies with collagen affinity for in vivo photoacoustic imaging of tumors. *Science Advances*, 10(35). https://doi.org/10.1126/SCIADV.ADN8274/SUPPL_FILE/SCIADV.ADN8274_SM.PDF
3. Jeon, J., Park, Y. S., Kim, S.-H., Kong, E., Kim, J., Yang, J. M., Lee, J. Y., Kim, Y.-M., Kim, I.-B., & Kim, P. (2024). Deciphering perivascular macrophages and microglia in the retinal ganglion cell layers. *Frontiers in Cell and Developmental Biology*, 12, 1368021. <https://doi.org/10.3389/FCELL.2024.1368021>
4. Li, X., Zhong, H., Zheng, S., Mu, J., Yu, N., & Guo, S. (2024). Tumor-penetrating iRGD facilitates penetration of poly(floxuridine-ketal)-based nanomedicine for enhanced pancreatic cancer therapy. *Journal of Controlled Release*, 369, 444–457. <https://doi.org/10.1016/J.JCONREL.2024.04.004>
5. Ni, Q., Zhen, L., Zeng, Z., Yang, J., Wang, Y., Xu, H., Zhang, Q., Zhu, Y., Tao, Y., Wang, J., Liu, Q., Yi, K., Chen, Y., Chen, Q., Wang, G., Zhou, F., & Shan, Y. (2024). Mesenchymal stromal cells restrain the Th17 cell response via L-amino-acid oxidase within lymph nodes. *Cell Death & Disease* 2024 15:9, 15(9), 1–14. <https://doi.org/10.1038/s41419-024-07024-7>
6. Zi, S.-F., Wu, X.-J., Tang, Y., Liang, Y.-P., Liu, X., Wang, L., Li, S.-L., Wu, C.-D., Xu, J.-Y., Liu, T., Huang, W., Xie, J.-F., Liu, L., Chao, J., Qiu, H.-B., Zi, S.-F., Wu, X.-J., Tang, Y., Liang, Y.-P., ... Qiu, H.-B. (2024). Endothelial Cell-Derived Extracellular Vesicles Promote Aberrant Neutrophil Trafficking and Subsequent Remote Lung Injury. *Advanced Science*, 11(38), 2400647. <https://doi.org/10.1002/ADVS.202400647>
7. Choi, J., Choi, J., Choi, M.-S., Choi, M.-S., Jeon, J., Jeon, J., Moon, J., Moon, J., Lee, J., Lee, J., Kong, E., Kong, E., Lucia, S. E., Lucia, S. E., Hong, S., Hong, S., Lee, J.-H., Lee, E. Y., Lee, E. Y., ... Kim, P. (2023). In vivo longitudinal 920 nm two-photon intravital kidney imaging of a dynamic 2,8-DHA crystal formation and tubular deterioration in the adenine-induced chronic kidney disease mouse model. *Biomedical Optics Express*, Vol. 14, Issue 4, Pp. 1647-1658, 14(4), 1647–1658. <https://doi.org/10.1364/BOE.485187>
8. Eom, M., Han, S., Park, P., Kim, G., Cho, E. S., Sim, J., Lee, K. H., Kim, S., Tian, H., Böhm, U. L., Lowet, E., Tseng, H. an, Choi, J., Lucia, S. E., Ryu, S. H., Rózsa, M., Chang, S., Kim, P., Han, X., ... Yoon, Y. G. (2023). Statistically unbiased prediction enables accurate denoising of voltage imaging data. *Nature Methods* 2023 20:10, 20(10), 1581–1592. <https://doi.org/10.1038/s41592-023-02005-8>
9. Quan, Y., He, J., Zou, Q., Zhang, L., Sun, Q., Huang, H., Li, W., Xie, K., & Wei, F. (2023). Low molecular weight heparin synergistically enhances the efficacy of adoptive and anti-PD-1-based immunotherapy by increasing lymphocyte infiltration in colorectal cancer. *Journal for ImmunoTherapy of Cancer*, 11(8), e007080. <https://doi.org/10.1136/JITC-2023-007080>

10. Shin, M. J., Im, S. H., Kim, B., Choi, J., Lucia, S. E., Kim, W., Park, J. G., Kim, P., Chung, H. J., & Yoon, D. K. (2023). Fabrication of Scratched Nanogrooves for Highly Oriented Cell Alignment and Application as a Wound Healing Dressing. *ACS Applied Materials and Interfaces*.
https://doi.org/10.1021/ACSAMI.3C00530/SUPPL_FILE/AM3C00530_SI_001.PDF
11. Vinas-Pena, M., Cho, S., Hwang, Y., & Yun, S.-H. (2023). Fluorescence lifetimes of scleral tissues after riboflavin-mediated crosslinking. *Investigative Ophthalmology & Visual Science*, 64(8), 3356–3356.
12. Zhao, G., Ho, W., Chu, J., Xiong, X., Hu, B., Boakye-Yiadom, K. O., Xu, X., & Zhang, X. Q. (2023). Inhalable siRNA Nanoparticles for Enhanced Tumor-Targeting Treatment of KRAS-Mutant Non-Small-Cell Lung Cancer. *ACS Applied Materials and Interfaces*, 15(26), 31273–31284.
https://doi.org/10.1021/ACSAMI.3C05007/SUPPL_FILE/AM3C05007_SI_001.PDF
13. Ahn, S., Koh, B. I., Lee, J., Hong, S., Kim, I., & Kim, P. (2022). In vivo observation of multi-phase spatiotemporal cellular dynamics of transplanted HSPCs during early engraftment. *FASEB BioAdvances*, 4(8), 547. <https://doi.org/10.1096/FBA.2021-00164>
14. Kim, J. H., Lee, E. S., Yun, J., Ryu, H. S., Kim, H. K., Ju, Y. W., Kim, K., Kim, J. II, & Moon, H. G. (2022). Calsequestrin 2 overexpression in breast cancer increases tumorigenesis and metastasis by modulating the tumor microenvironment. *Molecular Oncology*, 16(2), 466–484.
<https://doi.org/10.1002/1878-0261.13136>
15. Kim, Y., Cho, M., Paulson, B., Kim, S. H., & Kim, J. K. (2022). Minimizing Motion Artifacts in Intravital Microscopy Using the Sedative Effect of Dexmedetomidine. *Microscopy and Microanalysis*, 28(5), 1679–1686. <https://doi.org/10.1017/S1431927622000708>
16. Kim, Y. R., Kim, Y. M., Lee, J., Park, J., Lee, J. E., & Hyun, Y. M. (2020). Neutrophils Return to Bloodstream Through the Brain Blood Vessel After Crosstalk With Microglia During LPS-Induced Neuroinflammation. *Frontiers in Cell and Developmental Biology*, 8(December), 1–12.
<https://doi.org/10.3389/fcell.2020.613733>
17. Ko, Y. K., Hong, S., Kim, H. M., Liu, M., Moon, E., Kim, P., & Choi, Y. (2022). Characterization of junctional structures in the gingival epithelium as barriers against bacterial invasion. *Journal of Periodontal Research*, 57(4), 799–810. <https://doi.org/10.1111/JRE.13003>
18. Shin, J. W., An, S., Kim, D., Kim, H., Ahn, J., Eom, J., You, W. K., Yun, H., Lee, B., Sung, B., Jung, J., Kim, S., Son, Y., Sung, E., Lee, H., Lee, S., Song, D., Pak, Y., Sandhu, J. K., ... Lee, S. H. (2022). Grabody B, an IGF1 receptor-based shuttle, mediates efficient delivery of biologics across the blood-brain barrier. *Cell Reports Methods*, 2(11), 100338. <https://doi.org/10.1016/J.CRMETH.2022.100338>
19. Trzeciak, A., Mongre, R. K., Kim, M. R., Lim, K., Madero, R. A., Parkhurst, C. N., Pietropaoli, A. P., & Kim, M. (2022). Neutrophil heterogeneity in complement C1q expression associated with sepsis mortality. *Frontiers in Immunology*, 13. <https://doi.org/10.3389/FIMMU.2022.965305/FULL>
20. Yu, H. Y., Lee, S., Ju, H., Kim, Y., Shin, J. H., Yun, H. D., Ryu, C. M., Heo, J., Lim, J., Song, S., Lee, S., Hong, K. S., Chung, H. M., Kim, J. K., Choo, M. S., & Shin, D. M. (2022). Intravital imaging and single cell transcriptomic analysis for engraftment of mesenchymal stem cells in an animal model of interstitial

cystitis/bladder pain syndrome. *Biomaterials*, 280, 121277.

<https://doi.org/10.1016/j.BIOMATERIALS.2021.121277>

21. Zhao, J., Jung, S., Li, X., Li, L., Kasinath, V., Zhang, H., Movahedi, S. N., Mardini, A., Sabiu, G., Hwang, Y., Saxena, V., Song, Y., Ma, B., Acton, S. E., Kim, P., Madsen, J. C., Sage, P. T., Tullius, S. G., Tsokos, G. C., ... Abdi, R. (2022). Delivery of costimulatory blockade to lymph nodes promotes transplant acceptance in mice. *The Journal of Clinical Investigation*, 132(24). <https://doi.org/10.1172/JCI159672>
22. Kim, K. H., Dannenberg, P. H., Yan, H., Cho, S., & Yun, S. H. (2021). Compact Quantum-Dot Microbeads with Sub-Nanometer Emission Linewidth. *Advanced Functional Materials*, 31(48), 2103413. <https://doi.org/10.1002/ADFM.202103413>
23. Ahn, J., Kim, K. H., Choe, K., Lim, J. H., Lee, S. K., Kim, Y. S., & Kim, P. (2020). Quantitative two-photon microscopy imaging analysis of human skin to evaluate enhanced transdermal delivery by hybrid-type multi-lamellar nanostructure: retraction. *Biomedical Optics Express*, 11(10), 5871. <https://doi.org/10.1364/boe.410469>
24. Choi, H., Kim, Y., Mirzaaghasi, A., Heo, J., Kim, Y. N., Shin, J. H., Kim, S., Kim, N. H., Cho, E. S., Yook, J. I., Yoo, T. H., Song, E., Kim, P., Shin, E. C., Chung, K., Choi, K., & Choi, C. (2020). Exosome-based delivery of super-repressor I κ B α relieves sepsis-associated organ damage and mortality. *Science Advances*, 6(15), 1–10. <https://doi.org/10.1126/sciadv.aaz6980>
25. Ha, J. Y., Choi, S. Y., Lee, J. H., Hong, S. H., & Lee, H. J. (2020). Delivery of Periodontopathogenic Extracellular Vesicles to Brain Monocytes and Microglial IL-6 Promotion by RNA Cargo. *Frontiers in Molecular Biosciences*, 7(November), 1–11. <https://doi.org/10.3389/fmolb.2020.596366>
26. Lee, J., Kong, E., Hong, S., Moon, J., & Kim, P. (2020). In vivo longitudinal visualization of the brain neuroinflammatory response at the cellular level in LysM-GFP mice induced by 3-nitropropionic acid. *Biomedical Optics Express*, 11(8), 4835. <https://doi.org/10.1364/boe.393690>
27. Moon, J., Kong, E., Lee, J., Jung, J., Kim, E., Park, S. B., & Kim, P. (2020). Intravital longitudinal imaging of hepatic lipid droplet accumulation in a murine model for nonalcoholic fatty liver disease. *Biomedical Optics Express*, 11(9), 5132. <https://doi.org/10.1364/boe.395890>
28. Park, I., Hong, S., Hwang, Y., & Kim, P. (2020). A novel pancreatic imaging window for stabilized longitudinal in vivo observation of pancreatic islets in murine model. *Diabetes and Metabolism Journal*, 44(1), 193–198. <https://doi.org/10.4093/dmj.2018.0268>
29. Ahn, J., Kong, E., Choe, K., Song, E., Hwang, Y., Seo, H., Park, I., & Kim, P. (2019). In vivo longitudinal depth-wise visualization of tumorigenesis by needle-shaped side-view confocal endomicroscopy. *Biomedical Optics Express*, 10(6), 2719. <https://doi.org/10.1364/boe.10.002719>
30. Hong, S., Lee, J., Kim, J. M., Kim, S. Y., Kim, H. R., & Kim, P. (2019). 3D cellular visualization of intact mouse tooth using optical clearing without decalcification. *International Journal of Oral Science*, 11(3). <https://doi.org/10.1038/s41368-019-0056-z>

31. Kim, D. Y., Hwang, K., Ahn, J., Seo, Y. H., Kim, J. B., Lee, S., Yoon, J. H., Kong, E., Jeong, Y., Jon, S., Kim, P., & Jeong, K. H. (2019). Lissajous Scanning Two-photon Endomicroscope for In vivo Tissue Imaging. *Scientific Reports*, 9(1), 1–8. <https://doi.org/10.1038/s41598-019-38762-w>
32. Kim, J., Park, J. R., Choi, J., Park, I., Hwang, Y., Bae, H., Kim, Y., Choi, W. J., Yang, J. M., Han, S., Chung, T. Y., Kim, P., Kubota, Y., Augustin, H. G., Oh, W. Y., & Koh, G. Y. (2019). Tie2 activation promotes choriocapillary regeneration for alleviating neovascular age-related macular degeneration. *Science Advances*, 5(2), 1–17. <https://doi.org/10.1126/sciadv.aau6732>
33. Kwak, H. W., Park, H. J., Ko, H. L., Park, H., Cha, M. H., Lee, S. M., Kang, K. W., Kim, R. H., Ryu, S. R., Kim, H. J., Kim, J. O., Song, M., Kim, H., Jeong, D. G., Shin, E. C., & Nam, J. H. (2019). Cricket paralysis virus internal ribosome entry site-derived RNA promotes conventional vaccine efficacy by enhancing a balanced Th1/Th2 response. *Vaccine*, 37(36), 5191–5202. <https://doi.org/10.1016/j.vaccine.2019.07.070>
34. Park, I., Kim, M., Choe, K., Song, E., Seo, H., Hwang, Y., Ahn, J., Lee, S. H., Lee, J. H., Jo, Y. H., Kim, K., Koh, G. Y., & Kim, P. (2019). Neutrophils disturb pulmonary microcirculation in sepsis-induced acute lung injury. *European Respiratory Journal*, 53(3). <https://doi.org/10.1183/13993003.00786-2018>
35. Kim, J. Y., Ahn, J., Kim, J., Choi, M., Jeon, H., Choe, K., Lee, D. Y., Kim, P., & Jon, S. (2018). Nanoparticle-Assisted Transcutaneous Delivery of a Signal Transducer and Activator of Transcription 3-Inhibiting Peptide Ameliorates Psoriasis-like Skin Inflammation. *ACS Nano*, 12(7), 6904–6916. <https://doi.org/10.1021/acsnano.8b02330>
36. Lee, E. M., Park, I., Lee, Y. J., You, Y. H., Kim, J. W., Kim, M. J., Ahn, Y. B., Kim, P., & Ko, S. H. (2018). Effect of resveratrol treatment on graft revascularization after islet transplantation in streptozotocin-induced diabetic mice. *Islets*, 10(1), 25–39. <https://doi.org/10.1080/19382014.2017.1414764>
37. Oh, B. J., Jin, S. M., Hwang, Y., Choi, J. M., Lee, H. S., Kim, G., Kim, G., Park, H. J., Kim, P., Kim, S. J., & Kim, J. H. (2018). Highly angiogenic, nonthrombogenic bone marrow mononuclear cell-derived spheroids in intraportal islet transplantation. *Diabetes*, 67(3), 473–485. <https://doi.org/10.2337/db17-0705>
38. Park, I., Choe, K., Seo, H., Hwang, Y., Song, E., Ahn, J., Hwan Jo, Y., & Kim, P. (2018). Intravital imaging of a pulmonary endothelial surface layer in a murine sepsis model. *Biomedical Optics Express*, 9(5), 2383. <https://doi.org/10.1364/boe.9.002383>
39. Xu, J., Lee, S. S. Y., Seo, H., Pang, L., Jun, Y., Zhang, R. Y., Zhang, Z. Y., Kim, P., Lee, W., Kron, S. J., & Yeo, Y. (2018). Quinic Acid-Conjugated Nanoparticles Enhance Drug Delivery to Solid Tumors via Interactions with Endothelial Selectins. *Small*, 14(50), 1–16. <https://doi.org/10.1002/smll.201803601>
40. Ahn, S., Choe, K., Lee, S., Kim, K., Song, E., Seo, H., Kim, I., & Kim, P. (2017). Intravital longitudinal wide-area imaging of dynamic bone marrow engraftment and multilineage differentiation through nuclear-cytoplasmic labeling. *PLoS ONE*, 12(11), 1–16. <https://doi.org/10.1371/journal.pone.0187660>
41. Hwang, Y., Yoon, H., Choe, K., Ahn, J., Jung, J. H., Park, J.-H., & Kim, P. (2017). In vivo cellular-level real-time pharmacokinetic imaging of free-form and liposomal indocyanine green in liver. *Biomedical Optics Express*, 8(10), 4706. <https://doi.org/10.1364/boe.8.004706>

42. Jang, J. Y., Choi, S. Y., Park, I., Park, D. Y., Choe, K., Kim, P., Kim, Y. K., Lee, B., Hirashima, M., Kubota, Y., Park, J., Cheng, S., Nagy, A., Park, Y. J., Alitalo, K., Shong, M., & Koh, G. Y. (2017). VEGFR2 but not VEGFR3 governs integrity and remodeling of thyroid angiofollicular unit in normal state and during goitrogenesis. *EMBO Molecular Medicine*, 9(6), 750–769. <https://doi.org/10.15252/emmm.201607341>
43. Kim, S. B., Kim, H. R., Park, M. C., Cho, S., Goughnour, P. C., Han, D., Yoon, I., Kim, Y. H., Kang, T., Song, E., Kim, P., Choi, H., Mun, J. Y., Song, C., Lee, S., Jung, H. S., & Kim, S. (2017). Caspase-8 controls the secretion of inflammatory lysyl-tRNA synthetase in exosomes from cancer cells. *Journal of Cell Biology*, 216(7), 2201–2216. <https://doi.org/10.1083/jcb.201605118>
44. Ogura, S., Kurata, K., Hattori, Y., Takase, H., Ishiguro-Oonuma, T., Hwang, Y., Ahn, S., Park, I., Ikeda, W., Kusuhara, S., Fukushima, Y., Nara, H., Sakai, H., Fujiwara, T., Matsushita, J., Ema, M., Hirashima, M., Minami, T., Shibuya, M., ... Uemura, A. (2017). Sustained inflammation after pericyte depletion induces irreversible blood-retina barrier breakdown. *JCI Insight*, 2(3), 1–22. <https://doi.org/10.1172/jci.insight.90905>
45. Ahn, Y. H., Park, S., Choi, J. J., Park, B. K., Rhee, K. H., Kang, E., Ahn, S., Lee, C. H., Lee, J. S., Inn, K. S., Cho, M. La, Park, S. H., Park, K., Park, H. J., Lee, J. H., Park, J. W., Kwon, N. H., Shim, H., Han, B. W., ... Kim, S. (2016). Secreted tryptophanyl-tRNA synthetase as a primary defence system against infection. *Nature Microbiology*, 2(October). <https://doi.org/10.1038/nmicrobiol.2016.191>
46. Han, S., Lee, S. J., Kim, K. E., Lee, H. S., Oh, N., Park, I., Ko, E., Oh, S. J., Lee, Y. S., Kim, D., Lee, S., Lee, D. H., Lee, K. H., Chae, S. Y., Lee, J. H., Kim, S. J., Kim, H. C., Kim, S., Kim, S. H., ... Koh, G. Y. (2016). Amelioration of sepsis by TIE2 activation-induced vascular protection. *Science Translational Medicine*, 8(335), 1–12. <https://doi.org/10.1126/scitranslmed.aad9260>
47. Kim, K., Choe, K., Park, I., Kim, P., & Park, Y. (2016). Holographic intravital microscopy for 2-D and 3-D imaging intact circulating blood cells in microcapillaries of live mice. *Scientific Reports*, 6(August), 1–9. <https://doi.org/10.1038/srep33084>
48. Lee, J. Y., Hwang, Y., Kim, J. H., Kim, Y. S., Jung, B. K., Kim, P., & Lee, H. (2016). In vivo fluorescence retinal imaging following AAV2-mediated gene delivery in the rat retina. *Investigative Ophthalmology and Visual Science*, 57(7), 3390–3396. <https://doi.org/10.1167/iovs.15-18862>
49. Park, J. R., Choi, W., Hong, H. K., Kim, Y., Park, S. J., Hwang, Y., Kim, P., Woo, S., Park, K. H., & Oh, W. Y. (2016). Imaging laser-induced choroidal neovascularization in the rodent retina using optical coherence tomography angiography. *Investigative Ophthalmology and Visual Science*, 57(9), OCT331–OCT340. <https://doi.org/10.1167/iovs.15-18946>
50. Ahn, J., Choe, K., Wang, T., Hwang, Y., Kim, K. H., & Kim, P. (2015). In vivo longitudinal cellular imaging of small intestine by side-view confocal endomicroscopy. *Conference on Lasers and Electro-Optics Europe - Technical Digest*, 2015-Augus(10), 3963–3972. <https://doi.org/10.1364/boe.6.003963>
51. Choe, K., Jang, J. Y., Park, I., Kim, Y., Ahn, S., Park, D. Y., Hong, Y. K., Alitalo, K., Koh, G. Y., & Kim, P. (2015). Intravital imaging of intestinal lacteals unveils lipid drainage through contractility. *Journal of Clinical Investigation*, 125(11), 4042–4052. <https://doi.org/10.1172/JCI76509>

52. Choi, J. W., Kim, J. K., Yang, Y. J., Kim, P., Yoon, K. H., & Yun, S. H. (2015). Urokinase exerts antimetastatic effects by dissociating clusters of circulating tumor cells. *Cancer Research*, 75(21), 4474–4482. <https://doi.org/10.1158/0008-5472.CAN-15-0684>
53. Choi, J. W., Kim, P., Kim, J. K., Kim, Y. R., Fukumura, D., & Yun, S. H. (2015). Longitudinal tracing of spontaneous regression and anti-angiogenic response of individual microadenomas during colon tumorigenesis. *Theranostics*, 5(7), 724–732. <https://doi.org/10.7150/thno.10734>
54. Lee, D., Na, J., Ryu, J., Kim, H. J., Nam, S. H., Kang, M., Jung, J. W., Lee, M. S., Song, H. E., Choi, J., Lee, G. H., Kim, T. Y., Chung, J. K., Park, K. H., Kim, S. H., Kim, H., Seo, H., Kim, P., Youn, H., & Lee, J. W. (2015). Interaction of tetraspan(in) TM4SF5 with CD44 promotes self-renewal and circulating capacities of hepatocarcinoma cells. *Hepatology*, 61(6), 1978–1997. <https://doi.org/10.1002/hep.27721>
55. Seo, H., Hwang, Y., Choe, K., & Kim, P. (2015). In vivo quantitation of injected circulating tumor cells from great saphenous vein based on video-rate confocal microscopy. *Biomedical Optics Express*, 6(6), 2158. <https://doi.org/10.1364/boe.6.002158>
56. Song, E., Ahn, Y., Ahn, J., Ahn, S., Kim, C., Choi, S., Boutilier, R. M., Lee, Y., Kim, P., & Lee, H. (2015). Optical clearing assisted confocal microscopy of ex vivo transgenic mouse skin. *Optics and Laser Technology*, 73, 69–76. <https://doi.org/10.1016/j.optlastec.2015.03.020>
57. Song, E., Seo, H., Choe, K., Hwang, Y., Ahn, J., Ahn, S., & Kim, P. (2015). Optical clearing based cellular-level 3D visualization of intact lymph node cortex. *Biomedical Optics Express*, 6(10), 4154. <https://doi.org/10.1364/boe.6.004154>
58. Hwang, Y., Ahn, J., Mun, J., Bae, S., Jeong, Y. U., Vinokurov, N. A., & Kim, P. (2014). In vivo analysis of THz wave irradiation induced acute inflammatory response in skin by laser-scanning confocal microscopy. *Optics Express*, 22(10), 11465. <https://doi.org/10.1364/oe.22.011465>
59. Park, D. Y., Lee, J., Park, I., Choi, D., Lee, S., Song, S., Hwang, Y., Hong, K. Y., Nakaoka, Y., Makinen, T., Kim, P., Alitalo, K., Hong, Y. K., & Koh, G. Y. (2014). Lymphatic regulator PROX1 determines Schlemm's canal integrity and identity. *Journal of Clinical Investigation*, 124(9), 3960–3974. <https://doi.org/10.1172/JCI75392>
60. Choe, K., Hwang, Y., Seo, H., & Kim, P. (2013). In vivo high spatiotemporal resolution visualization of circulating T lymphocytes in high endothelial venules of lymph nodes. *Journal of Biomedical Optics*, 18(03), 1. <https://doi.org/10.1117/1.jbo.18.3.036005>
61. Jung, K., Kim, P., Leuschner, F., Gorbato, R., Kim, J. K., Ueno, T., Nahrendorf, M., & Yun, S. H. (2013). Endoscopic time-lapse imaging of immune cells in infarcted mouse hearts. *Circulation Research*, 112(6), 891–899. <https://doi.org/10.1161/CIRCRESAHA.111.300484>
62. Kim, J. K., Lee, W. M., Kim, P., Choi, M., Jung, K., Kim, S., & Yun, S. H. (2012). Fabrication and operation of GRIN probes for in vivo fluorescence cellular imaging of internal organs in small animals. *Nature Protocols*, 7(8), 1456–1469. <https://doi.org/10.1038/nprot.2012.078>

63. Van De Ven, A. L., Kim, P., Haley, O., Fakhoury, J. R., Adriani, G., Schmulen, J., Moloney, P., Hussain, F., Ferrari, M., Liu, X., Yun, S. H., & Decuzzi, P. (2012). Rapid tumorotropic accumulation of systemically injected plateloid particles and their biodistribution. *Journal of Controlled Release*, 158(1), 148–155. <https://doi.org/10.1016/j.jconrel.2011.10.021>
64. Zhi, L., Kim, P., Thompson, B. D., Pitsillides, C., Bankovich, A. J., Yun, S.-H., Lin, C. P., Cyster, J. G., & Wu, M. X. (2011). FTY720 Blocks Egress of T Cells in Part by Abrogation of Their Adhesion on the Lymph Node Sinus. *The Journal of Immunology*, 187(5), 2244–2251. <https://doi.org/10.4049/jimmunol.1100670>
65. Chen, X., Kim, P., Farinelli, B., Doukas, A., Yun, S. H., Gelfand, J. A., Anderson, R. R., & Wu, M. X. (2010). A novel laser vaccine adjuvant increases the motility of antigen presenting cells. *PLoS ONE*, 5(10). <https://doi.org/10.1371/journal.pone.0013776>
66. Fan, Z., Spencer, J. A., Lu, Y., Pitsillides, C. M., Singh, G., Kim, P., Yun, S. H., Toxavidis, V., Strom, T. B., Lin, C. P., & Koulmanda, M. (2010). In vivo tracking of “color-coded” effector, natural and induced regulatory T cells in the allograft response. *Nature Medicine*, 16(6), 718–722. <https://doi.org/10.1038/nm.2155>
67. Ghosh, S. K., Kim, P., Zhang, X. A., Yun, S. H., Moore, A., Lippard, S. J., & Medarova, Z. (2010). A novel imaging approach for early detection of prostate cancer based on endogenous zinc sensing. *Cancer Research*, 70(15), 6119–6127. <https://doi.org/10.1158/0008-5472.CAN-10-1008>
68. Lee, J. Y., Park, C., Pil Cho, Y., Lee, E., Kim, H., Kim, P., Yun, S. H., & Yoon, Y. S. (2010). Podoplanin-expressing cells derived from bone marrow play a crucial role in postnatal lymphatic neovascularization. *Circulation*, 122(14), 1413–1425. <https://doi.org/10.1161/CIRCULATIONAHA.110.941468>