

Cell-Cell Interactions in Diseased Conditions Revealed by Three Dimensional and Intravital Two Photon Microscope: From Visualization to Quantification

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Abstract : Although much information has been garnered from the genomes of humans and mice, it remains difficult to extend that information to explain physiological and pathological phenomena. This is because the processes underlying life are by nature stochastic and fluctuate with time. Thus, we developed novel "in vivo molecular imaging" method based on single and two-photon microscopy. We visualized and analyzed many life phenomena, including common adult diseases. We integrated the knowledge obtained, and established new models that will serve as the basis for new minimally invasive therapeutic approaches.

Keywords : two photon microscope, intravital visualization, thrombus, artery

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