

3rd International conference on

NEUROSCIENCE, NEURORADIOLOGY AND IMAGING

October 03-04, 2018 Osaka, Japan



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Watch brain activity using novel emerging imaging techniques

The fundamental principles of several novel emerging imaging modalities including Diffuse Optical Tomography (DOT), Photoacoustic Tomography (PAT) and Thermoacoustic Tomography (TAT) for noninvasive *in vivo* visualization of brain tissue at both the macroscopic and microscopic scales. These imaging technologies have been developed to image seizure focus and associated networks, to detect stroke and Alzheimer's disease, and to watch brain activity in freely-moving animals and during acupuncture.

Biography

Huabei Jiang was trained in biomedical optics and has made several pioneering contributions to the development of diffuse optical tomography, photoacoustic tomography and thermoacoustic tomography. He is responsible for the first applications of these imaging technologies to image epilepsy and stroke and to watch brain activity in freely-moving animals/behavior and during acupuncture.

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