PerkinElmer
For the Better

3D活體螢光斷層定量系統說明會

日期：4月28日 (四)

時間：PM 13:30~16:00 地點：中興大學生科大樓一樓103教室

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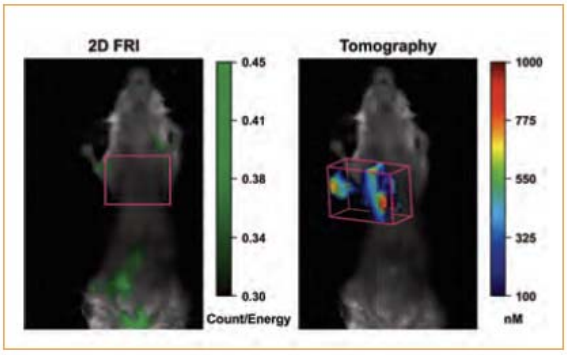
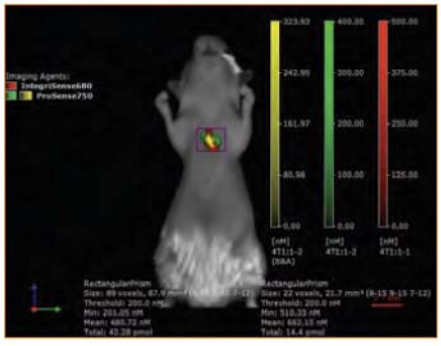
講題：Fluorescence Molecular Tomography (FMT) Imaging of Disease Biology and Therapeutic Response *In Vivo*

簡介：

分子影像時代的來臨，對於動物影像的要求，不再只是基本的觀察與追蹤。FMT對於偵測深度、解析度的突破與實際3D“訊號定量“的需求，提供了最佳的解決方案～本次的講題中，將針對最新的螢光斷層定量系統FMT 作深入的介紹，其中也將說明該系統目前應用於呼吸、心臟、癌症、炎症反應等臨床醫學研究的現況，其無須放射性實驗的操作，即可達到與PET相同的定量效果，可深入與確實的追蹤細胞生長及藥物治療的反應，亦可藉多重螢光之標記，進一步觀察小分子於體內的分佈和代謝。想要體驗真實3D定量的結果嗎？加入我們～你也可以更科學！





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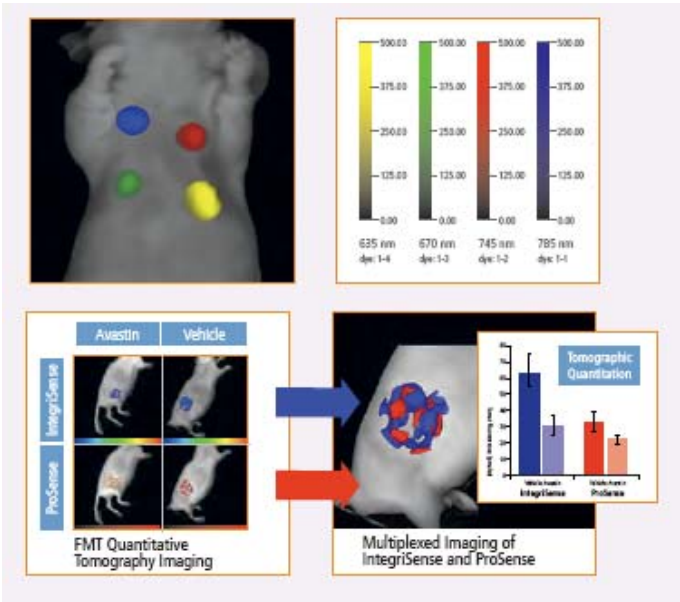
講題摘要：

The PerkinElmer Fluorescence Molecular Tomography (FMT) technology uses near-infrared agents and enables deep tissue imaging of targets, in a range of disease areas (respiratory, inflammatory diseases, oncology, cardiology, CNS…) as well as full quantification, 3D reconstruction and tomographic slicing in-vivo (optical equivalent to PET imaging). The data can be readily co-registered with other modalities, such as MRI and CT to provide a complete in-vivo imaging readout of structural and biological information. Due to the unique ability of the FMT to identify and quantitate disease biology at any depth within a rodent model, it has been widely used to measure disease progression and therapeutic response. As with a PET system it has a sensitivity down below 1pmol of bound probe and is able to discriminate targets as small as 1mm with just 1-2mm of separation. Due to its patented process of attenuation correction it is capable of accurately quantifying bound probe at any depth in the mouse and in the most difficult areas for fluorescent imaging (eg liver, lung..). For this reason, the system has been widely used in Oncology studies, not just for sub-cutaneous tumours, but also metastatic and orthotopic models.



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