研究區(通告)

摘要:高雄長庚研究區舉辦『蛋白質體轉譯後修飾分析之應用』專業訓練,請踴躍參加! 一、主旨:高雄長庚研究區舉辦『蛋白質體轉譯後修飾分析之應用』專業訓練,請踴躍參加!

二、說明:

- (一) 日期:103年11月27日(星期四)
- (二) 時間:專題演講10:00~12:30
- (三) 地點:兒童醫院12樓 醫研部會議室
- (四) 主講者:中央研究院 化學研究所/陳玉如教授
- (五)課程簡介:

The abnormal S-nitrosylation induced by the overexpression and activation of inducible nitric oxide synthase (iNOS) modulates many human diseases, such inflammation and cancer. To delineate the as pathophysiological S-nitrosoproteome in cancer patients, we report an individualized S-nitrosoproteomic strategy with a label-free method for the site-specific quantification of S-nitrosylation in paired tumor and adjacent normal tissues from 11 patients with colorectal cancer (CRC). This study provides not only the first endogenous human S-nitrosoproteomic atlas but also the first individualized human tissue analysis, identifying 174 S-nitrosylation sites in 94 proteins. Fourteen novel S-nitrosylation sites with a high frequency of elevated levels in 11 individual patients were identified. An individualized S-nitrosylation quantitation analysis revealed that the detected changes in S-nitrosylation were regulated by both the expression level and the more dramatic post-translational S-nitrosylation of the targeted proteins, such as thioredoxin, annexin A4, and peroxiredoxin-4. These endogenous S-nitrosylated proteins illustrate the network of inflammation/cancer-related and redox reactions mediated by various S-nitrosylation sources, including iNOS, transnitrosylase, or iron-sulfur centers. Given the demonstrated sensitivity of individualized tissue analysis, this label-free approach may facilitate the study of the vastly under-represented S-nitrosoproteome and enable a better understanding of the effect of endogenous S-nitrosylation in cancer.

(六) 報名方式:請依照附件(一)報名表報名,以方便預估本次參與人數

(七) 報名日期:即日起至103年11月26日止