



Giovedì, 5 Febbraio 2009

Ore 15.00

Dipartimento di Scienze Farmaceutiche

Università degli Studi di Salerno

Via Ponte don Melillo – Fisciano (SA)

RNAi Technologies and Applications workshop

- *Victoria Rusakova, Sigma-Aldrich R&D, St. Louis, USA*

Production of highly competent lentiviruses and their use in high throughput screening applications

RNA interference (RNAi) methodologies have greatly accelerated processes for dissecting and understanding gene function. We will discuss the delivery of short hairpin RNA (shRNA) using lentiviral vectors as a powerful means to mediate gene specific RNAi in mammalian cells. Through the utilization of a recombinant lentivirus delivery system, the RNAi Consortium (TRC) library targets cell types that are often not amenable to synthetic siRNA transfection, and facilitates screens and experiments that require long-term, stable knockdown. We present an overview of the library and discuss methods of enhancing transduction efficiency, assays for detecting knockdown, and off-target effects. Finally, to further explore its utility in screening, we set out to develop strategies using the lentiviral-based shRNA libraries in larger scale high throughput screens and end with a discussion on the LentiPlex pooled shRNA library useful for elucidating the role of a specific group of genes.

Per informazioni sul seminario contattare:

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