



UNIVERSITÀ
DEGLI STUDI
DI PALERMO

Dottorato di Ricerca in Biomedicina e Neuroscienze

Coordinatore: Prof. Felicia Farina

Sede Amministrativa: Dipartimento di Biomedicina Sperimentale e Neuroscienze Cliniche

AVVISO DI SEMINARIO

Venerdì 17 Ottobre 2014, ore 9:00

Aula "E. Nesci", Sezione di Anatomia Umana

Dipartimento di Biomedicina Sperimentale e Neuroscienze Cliniche

Via del Vespro 129, Palermo

Daniel R. Ciocca, MD, PhD*

Chief Oncology Laboratory, Institute of Experimental Medicine and Biology of Cuyo,
Scientific and Technological Center, Mendoza, Argentina

THE INTERACTIONS OF HSP27 WITH OTHER PROTEINS IN ONCOLOGY

Abstract of the talk: HSP27 can interact with several proteins. In breast cancer HSP27 interacts with β -catenin. Cells transfected with HSP27 showed a redistribution of β -catenin (from cell membrane to the cytoplasm), and biopsy samples β -catenin localization is related with the disease prognosis: when the protein was located at the cell membrane the patients had better survival than when β -catenin was expressed in the cytoplasm. In glioma cells HSP27 increased after temozolomide (TMZ) administration, in addition MSH2 and HSP27 appeared co-localized. This co-localization increased after TMZ treatment and in immunoprecipitation analysis MSH2/HSP27 interacted. These interactions are related with the functional significance of HSP27 in oncology.

* Brief biosketch:

Member of the National Research Council (CONICET) of Argentina: Principal Investigator. Ex-Visiting Professor of the National Institutes of Health of USA and Ex-Associate Professor, Division of Medical Oncology, the University of Texas Health Science Center at San Antonio, San Antonio, Texas. Member of the Editorial Board of the Journal: Cell Stress and Chaperones. Active in the study of heat shock proteins in the field of oncology.

