

Annex 2 – Research Topics for Spoke n. 6

From the final Work Plan: General description and Work Packages

S6. NEURODEGENERATION, TRAUMA AND STROKE:

S6 aims to integrate multiple experimental methodologies to capture the neural bases of neurodegeneration and stroke as well as the interaction between trauma and brain function, in order to shed light on the underlining processes and foster the development of novel biomarkers and therapeutic targets. The understanding of the molecular pathways leading to neurodegeneration, the development of biomarkers to predict disease progression and treatment response, and the identification of novel druggable targets to reduce the disability burden associated with these processes and conditions, represents the expected outcomes of the planned research.

WP1 - Mechanisms of neuronal cell degeneration and drug dependent reversal

WP2 - Multi-modal approaches to monitoring progression of neurodegenerative diseases and definition of novel rehabilitation methodologies

WP3 - Neurodegeneration in stroke

WP4 - Multi-parametric imaging and neurophysiological approaches to monitor neurodegeneration in the central and peripheral nervous system

Topics

TEMATICA	Costo minimo di ogni proposta progettuale	Costo massimo di ogni proposta progettuale
e Neuroimaging and fluid markers of neurodegeneration across dementing and movement disorders: insights from cohort studies	80.000,00 €	100.000,00 €

N.B. La tabella sottostante riporta la tematica il cui finanziamento è espressamente riservato agli Organismi di Ricerca con sedi operative in cui svolgeranno l'attività nel sud Italia.

TEMATICA	Costo minimo di ogni proposta progettuale	Costo massimo di ogni proposta progettuale
o Development of innovative technologies for rehabilitative treatments in preclinical models: a smart box (automated, computer-controlled) to monitor animal behavior during motor tasks novel implantable technologies for monitoring electrophysiological activity, sensors to collect physiological parameters able to assess and quantify also the non-motor symptoms due to the pathology (e.g., depression).	120.000,00 €	150.000,00 €