**Titles of the PhD theses in neurosciences completed in 2015 and 2016**

-Harnessing the potential of pluripotent stem cells to develop novel platforms to study human motor neurons *in vitro*.

-Rat models of Parkinson's disease: insights into the treatment of refractory symptoms.

-Phenoworld: a new multidimentional strategy for studying behaviour in rodents·

-Exploring the secretome of mesenchymal like stem cells for central nervous system regenerative medicine: a focus on Parkinson's disease.

-Molecular regulation of the hippocampal neurogenic niche in depression and by antidepressants: insights from an unpredictable chronic mild stress rat mode.

-Aging and Alzheimer's disease: searching for novel molecular cues.

-HOXA9 as a key regulator in glioma initiation, aggressiveness and response to therapy.

-Modulation of the secretome of mesenchymal stem cells for central nervous system regenerative medicine applications.

-The role of IFNY in higher brain function: in health and under chronic stress.

-Study to determine the cardiovascular risk of the population of Guimarães/Vizela, including the prevalence of arterial stiffness and early vascular aging syndrome.

-Searching for therapeutic strategies in a mouse model of Machado-Joseph disease: targeting proteostasis.

-Adult hippocampal neural plasticity: insights into its functional relevance in the stressed and depressed brain.

-Stress-triggered synaptic malfunction: a gate along the path from depression to dementia.

-Regulation of sleep and circadian rhythms by TARANIS.

-Pre-clinical trials for Machado-Joseph Disease: hypothesis-based and hypothesis-free therapeutic approaches.

-Role of nucleus accumbens dopamine D1- and D2-expressing neurons in reward and motivation.

-A network approach to brain aging through multi modal neuroimaging.