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3-year position, post-doctoral researcher at NutriNeuro

The research I conducted, whilst being both an undergraduate student and a master’s degree student, involved the further understanding of brain functions. The research team I joined in 2012 was linking brain blood barrier disruptions to the occurrence of temporal lobe epilepsies. Such findings were published the same year (Michalak, 2012). During my doctoral thesis at De Montfort University (Leicester, England), I studied the impact of psychostimulant administrations on brain functions. Results were acquired in rodents using *in vivo* single cell extracellular electrophysiology, western blot, as well as other biochemical techniques. The relationship between neuronal activities in the prefrontal cortex and acute exposure to psychostimulants was published in 2015 (Di Miceli, 2015). Further results are also to be published.

The research I am currently conducting at the NutriNeuro laboratory is focusing on the relationship between depression, stress, ω-3 fatty acids and endocannabinoid receptors. Using electrophysiological techniques (patch clamp, field potentials, optogenetics), we aim to further understand how synaptic plasticity could be altered after chronic stress, depression or diets deficient in omega-3 fatty acids.