



## PhD in Medical Sciences

Research Area: Environmental Health

**Title:** Noise and Diabetes: A morphological and functional study

Noise pollution is a ubiquitous element, present in professional, residential and leisure environments. Recent large-scale ecological studies have shown that populations exposed to noise have an increased risk of developing type 2 diabetes. As such, the aim of this study is to understand the impact of noise in the pancreatic tissue, both in its morphology and function, as well as in the muscular and hepatic tissue, key elements in the glucose metabolism and in the pathophysiology of type 2 diabetes. This study will identify which organs, structures and/or metabolic pathways are more susceptible to noise pollution.

**Keywords:** Insulin Resistance, Glucose Metabolism, Type 2 Diabetes, Noise Pollution

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