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PhD project title: "Hydrogen sulfide-based drugs in cardiovascular and cardiometabolic diseases"

Research summary:

Cardiovascular diseases are the leading cause of death globally and their treatment represents a challenging and timely issue. Hydrogen sulfide (H₂S) is an endogenous gasotransmitter endowed with pleiotropic effects. At physiological levels, it regulates the homeostasis of several systems, including the cardiovascular one. Many studies demonstrated that H₂S deficiency is strongly associated to many cardiovascular and cardiometabolic diseases, ranging from hypertension to atherosclerosis and type 2 diabetes mellitus. The aim of this project is to explore the pathophysiological roles of H₂S in major cardiovascular and cardiometabolic diseases and to investigate the potential therapeutic perspectives for drugs acting on the "H₂S system".

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