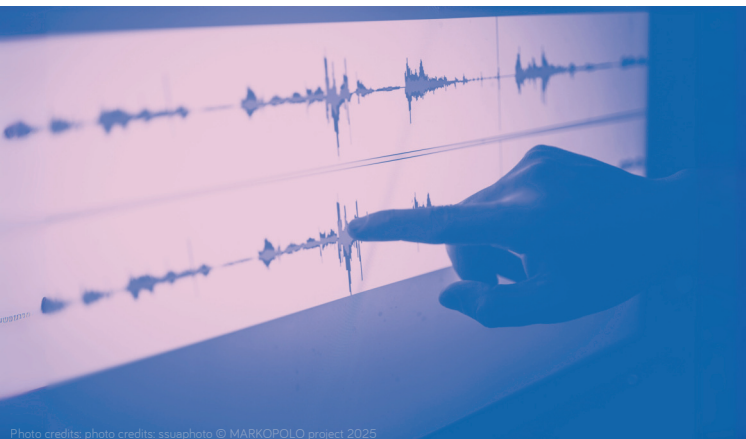


Noise and/or ultrafine particulate matter induced cerebral and cardiovascular damage: novel insights from experimental and epidemiological brain-heart axis biomarkers and computational models

OVERVIEW

Traffic noise and air pollution, especially particulate matter (PM) and ultrafine particles (UFP), are closely linked environmental risk factors that contribute significantly to the development of diseases such as diabetes, hypertension and atherosclerosis.



MORE INFO?
markersofpollution-markopolo.eu

CONSORTIUM

The MARKOPOLO consortium is a four-year interdisciplinary, multi-site project, involving 15 partners from Europe and the US. The project is led by Univ.-Prof. Dr. Andreas Daiber, Head of the Molecular Cardiology Research at the University Medical Center in Mainz, Germany.

APPROACH

Experimental and computational models are used in clinical, interventional and epidemiological studies. One of the main objectives is to identify disease-relevant biomarkers and to understand the molecular mechanisms involved in diseases of the brain, lung and cardiovascular system.

IMPACT

By pioneering a "bench to life" approach to study the combined effects of noise and particulate matter (PM), including ultrafine particles (UFPs) and toxins, MARKOPOLO integrates diverse scientific disciplines to address both scientific and societal challenges.

