

# NEUROSOME: EXPLORING THE NEUROLOGICAL EXPOSOME



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## ▪ Consortium:

**NEUROSOME** is funded in the frame of Marie Skłodowska-Curie Actions (MSCA-ETN- ITN) with an overall budget of 3.49 million euros from the European Commission's Framework Programme Horizon 2020 over the course of four years, starting from 01 October 2017. The project consortium is made up of 9 Beneficiaries Institutions and 5 Partners Organizations among the leading and well-experienced Organisations both in Europe and USA with a huge training experience in Environment and Health.

## ▪ Overview:

**NEUROSOME** is a European integrated training network which investigates the causal associations among genetic predisposition, cumulative exposure to multiple environmental chemicals of children and neurodevelopmental disorders. The project brings together beyond- the-state-of-the-art advances in human biomonitoring and systems biology, exposure monitoring and toxicological testing technologies and advanced tools for computational analyses of the exposure-to-health effect continuum according to the exposome paradigm. NEUROSOME involves the use of high dimensional biological data generated from multi-omics technological platforms.

The ultimate goal is the development of functional links among the different components of environmental, exposure and HBM and toxicological studies in order to understand the causal associations between exposure to organic compounds and toxic metals to neurodevelopmental and neurodegenerative disorders.

## ▪ Expected impact:

The most significant impact of this training network will be the establishment of a **NEUROSOME trainee flagship** and delivery to the EU of a new cohort of researchers trained at the cutting edge of interdisciplinary environment and health and cognisant of the major role that the exposome approach play in unravelling the complex associations between environmental exposure, genetic vulnerability and health outcomes.

