



Courtesy translation of D.R. n. 182/2023

For more details on the selection process, please refer to the Italian version of D.R. n. 182/2023 available at <http://www.hunimed.eu/it/lavora-con-noi/>

Research Program Title	A novel pharmacological approach to rescue Trem2-mediated microglial defects
Tutor	Prof.ssa Michela MATTEOLI
Scientific Areas	05 – Biological Sciences
Gross amount of the fellowship	23.000,00 Euro
Duration of the fellowship	23

Objectives of the research

Microglial cells are unique brain resident immune cells. A key role shaping microglia state is played by the innate immune receptor Triggering receptor expressed on myeloid cells 2 (TREM2). TREM2 is crucial in several microglial functions including the microglia-dependent pruning in the developing brain. TREM2 defects, impairing the shaping of microglia states and synapse homeostasis, can result in neurodevelopmental dysfunctions. These observations prompt the research of pharmacological compounds aimed at modulating TREM2 function. We recently reported a novel immunomodulatory sulfolipid named Sulfavant A (SA). We aim to demonstrate that the 12 Tf3rlq208.61 549oy A of

