

Supplementary Material

Therapeutic Potential of Microbiota Modulation in Alzheimer's Disease: A Review of Preclinical Studies

Terms used for database search:

(Microbiota OR microbiome OR gut-brain OR (gut-brain axis))

AND

(Alzheimer OR AD OR (Alzheimer's Disease) OR neurodegeneration OR (cognitive decline) OR (cognitive dysfunction))

AND

(microglia OR neuroimmune OR neurotoxic)

AND

(therapy OR treatment OR pharmacotherapy OR (drug development) OR (drug therapy))

There were 185 results from PubMed. After choosing results only from 2019 onwards (given the high number of papers and the rapid evolution of this field), the results decreased to 142. From these results, only primary data papers were selected, and their topic fit was checked superficially (from the PubMed page with their abstracts), reaching 22 studies.

A second deeper check of topic fit was carried out which decreased the selection to 7. This topic-fit check verified that research focused on treating AD and that the therapeutic approach was targeting the GM, including the assessment of its effects on microglia and AD cognitive symptoms. Also, only papers from different research groups were selected. The aim was to ensure the inclusion of papers of quality with independent results.