

## Supplement

Long, I. . (2025). Unravelling Alzheimer's Disease: Therapeutic Strategies Aimed at neuroinflammation signalling pathway. *Biomedical Research and Therapy*, 12(11), 7878-7893. <https://doi.org/10.15419/s00m4g68>

### Appendix A: Search Strategy

**Databases Searched:** PubMed, Scopus, and Web of Science

**Search Period:** January 2000 to June 15, 2025 (date of last search)

#### 1. PubMed (via MEDLINE)

##### Search String:

((("Alzheimer Disease"[Mesh] OR "Alzheimer's disease" OR AD))  
AND ("neuroinflammation" OR "neuroinflammatory" OR "microglia" OR "astrocyte" OR  
"glial activation")  
AND ("therapeutic strategies" OR "treatment" OR "intervention" OR "immunotherapy" OR  
"RNA-based therapy" OR "NLRP3" OR "TREM2")  
AND ("clinical trial" OR "animal study" OR "preclinical" OR "experimental" OR "review"))

**Filters Applied:** English language, publication dates between 2000/01/01 and 2025/06/15.

#### 2. Scopus

##### Search String:

TITLE-ABS-KEY (("Alzheimer's disease" OR "Alzheimer Disease")  
AND (neuroinflammation OR neuroinflammatory OR microglia OR astrocyte OR "glial  
activation")  
AND ("therapeutic strategies" OR treatment OR intervention OR immunotherapy OR "RNA-  
based therapy" OR NLRP3 OR TREM2))  
AND (LIMIT-TO (LANGUAGE, "English"))  
AND (PUBYEAR > 1999 AND PUBYEAR < 2026)

**Document Types:** Articles, reviews, and conference papers.

**Excluded:** Editorials, letters, and non-peer-reviewed materials.

#### 3. Web of Science (Core Collection)

##### Search String:

TS= (("Alzheimer's disease" OR "Alzheimer Disease") AND (neuroinflammation OR neuroinflammatory OR microglia OR astrocyte OR "glial activation") AND ("therapeutic strategies" OR treatment OR intervention OR immunotherapy OR "RNA-based therapy" OR NLRP3 OR TREM2))

**Refined By:** Document type (article, review), language (English), and timespan (2000–2025).

### **Search and Screening Summary**

| <b>Stage</b>                                  | <b>Number of Records</b> |
|-----------------------------------------------|--------------------------|
| Records identified through database searching | 2,134                    |
| Duplicates removed                            | 380                      |
| Titles and abstracts screened                 | 1,754                    |
| Full-text articles assessed for eligibility   | 226                      |
| Studies included in final synthesis           | 134                      |

### **Quality Assessment Tools was not applied**

Quality assessment of the studies included was not performed using appropriate standardized tools (The Cochrane Risk of Bias 2 (RoB 2) and Risk of Bias in Systematic Reviews (ROBIS)).