

Supplementary File 1. Search Strategy

Review Title: Association of GSTM1, GSTT1, and GSTP1 (rs1695) Gene Polymorphisms and Susceptibility to Periodontitis

Updated Search: October 30, 2025

Databases: PubMed (MEDLINE), Scopus, Web of Science Core Collection, Google Scholar

Languages: English

Population: Humans

Publication Type: Journal Article

Timeframe: From inception to October 30, 2025

Duplicate Removal: Automatic (EndNote/Mendeley) + manual verification

1. PubMed (MEDLINE via pubmed.ncbi.nlm.nih.gov)

Search run: October 30, 2025

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((("Periodontitis"[Mesh] OR periodontitis[tiab] OR "periodontal disease"[tiab]) AND ("Glutathione Transferase"[Mesh] OR "Glutathione S-Transferase"[tiab] OR GSTM1[tiab] OR GSTT1[tiab] OR GSTP1[tiab] OR rs1695[tiab] OR "Ile105Val"[tiab])) AND (polymorphism*[tiab] OR genotype*[tiab] OR variant*[tiab]))
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Filters applied:

- Humans
- English
- Journal Article
- Publication dates: inception – 2025/10/30

Total retrieved: 8 records

2. Scopus (TITLE-ABS-KEY)

TITLE-ABS-KEY (periodontitis OR "periodontal disease")

AND
TITLE-ABS-KEY (GSTM1 OR GSTT1 OR GSTP1
OR "glutathione s-transferase"
OR rs1695 OR "Ile105Val")
AND
TITLE-ABS-KEY (polymorphism OR genotype OR variant)

3. Web of Science (WoS Core Collection)

TS=(periodontitis OR "periodontal disease")
AND
TS=(GSTM1 OR GSTT1 OR GSTP1
OR "glutathione s-transferase"
OR rs1695 OR Ile105Val)
AND
TS=(polymorphism* OR genotype* OR variant*)

Refined by:

- Document Type: Article
 - Language: English
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4. Google Scholar

Search expression used:

(periodontitis OR "periodontal disease")
(GSTM1 OR GSTT1 OR GSTP1 OR "glutathione s-transferase" OR rs1695 OR
Ile105Val)

Settings and screening:

- Years: 1990–2025
- “Include citations” = ON
- **First 200 results screened manually**
- Duplicates & irrelevant records removed

Rationale:

Google Scholar does not provide reproducible search counts; therefore, screening was limited to the first 200 results, consistent with systematic review guidelines.

5. Deduplication Procedure

- Automatic removal (EndNote X9 + Mendeley)
- Manual verification using:
 - Title
 - Authors

- Year
 - Journal
 - DOI/PMID
- Final duplicate check during full-text screening