# Appendix 1: Search strategies

No limits or filters were selected when searching the databases.

## MEDLINE

Syntax : Ovid

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| 1 | Photochemotherapy/ or  Phototherapy/ or  Low-Level Light Therapy/ or  "photoinactivat\*".ti,ab. or  "photo-inactivat\*".ti,ab. or  "antimicrobial photodynamic therap\*".ti,ab. or  "apdt".ti,ab. or  "photodynam\*".ti,ab. or  "photo-dynam\*".ti,ab. or  "photosensib\*".ti,ab. or  "photo-sensib\*".ti,ab. or  "photosensit\*".ti,ab. or  "photo-sensit\*".ti,ab. or  "phototox\*".ti,ab. or  "photo-tox\*".ti,ab. or  "photodamage\*".ti,ab. or  "photo-damage\*".ti,ab. or  "light damage\*".ti,ab. or  "Phototarget\*".ti,ab. or  "Photo-target\*".ti,ab. or  "phototherap\*".ti,ab. or  "photo-therap\*".ti,ab. or  "photoradiat\*".ti,ab. or  "photo-radiat\*".ti,ab. or  "photolysis\*".ti,ab. or  "photo-lys\*".ti,ab. or  "photolysit\*".ti,ab. or  "photo-lyt\*".ti,ab. or  "Photobiomodulat\*".ti,ab. or  "Photo-biomodulat\*".ti,ab. or  ((light or laser\* or photo\*) adj10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)).ti,ab. or  ((light or laser\* or photo\*) adj1 (therap\* or treatment\*)).ti,ab. |
| 2 | Bacteria/ or  Bacterial Infections/ or  Biofilms/ or  Disinfection/ or  "microb\*".ti,ab. or  "antimicrob\*".ti,ab. or  "anti-microb\*".ti,ab. or  "bacter\*".ti,ab. or  "antibacter\*".ti,ab. or  "anti-bacter\*".ti,ab. or  "antiinfect\*".ti,ab. or  "anti-infect\*".ti,ab. or  "biofilm\*".ti,ab. or  "pathogen\*".ti,ab. or  "infect\*".ti,ab. or  "disinfect\*".ti,ab. or  exp Staphylococcus/ or  exp Aggregatibacter/ or  exp Porphyromonas/ or  Bacteroides/ or  exp Actinomyces/ or  Actinomycosis/ or  exp Streptococcus/ or  exp Prevotella/ or  exp Enterococcus/ or  exp Fusobacterium/ or  exp Campylobacter/ or  exp Lactobacillus/ or  exp Treponema/ or  "Staphylococcus".ti,ab. or  "MRSA".ti,ab. or  "Aggregatibacter".ti,ab. or  "Porphyromonas".ti,ab. or  "Actinomyces".ti,ab. or  "Streptococcus".ti,ab. or  "Prevotella".ti,ab. or  "Enterococcus".ti,ab. or  "Fusobacterium".ti,ab. or  "Campylobacter".ti,ab. or  "Tannerela".ti,ab. or  "Lactobacillus".ti,ab. or  "Treponema".ti,ab. or  "Veilonella".ti,ab. |
| 3 | exp Periodontal Diseases/ or  exp Dental Caries/ or  d.sb. or  "oral".ti,ab. or  "dental".ti,ab. or  "endodon\*".ti,ab. or  "periodon\*".ti,ab. or  "gingiva\*".ti,ab. or  "subgingival".ti,ab. or  "sub-gingival".ti,ab. or  "dentist\*".ti,ab. or  "caries".ti,ab. or  "carious ".ti,ab. or  "tooth".ti,ab. or  "teeth".ti,ab. or  "odonto\*".ti,ab. or  "root canal".ti,ab. or  "peri-implant disease\*".ti,ab. or  "periimplant disease\*".ti,ab. or  "periimplantitis".ti,ab. or  "peri-implantitis".ti,ab. or  (implant\* adj5 (inflamm\* or infect\* or diseas\*)).ti,ab. |
| 4 | 1 and 2 |
| 5 | 3 and 4 |

## Embase

Ovid syntax

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| 1 | photodynamic therapy/ or  photodynamics/ or  photodynamic therapy device/ or  exp phototherapy/ or  phototoxicity/ or  light damage/ or  "photoinactivat\*".ti,ab. or  "photo-inactivat\*".ti,ab. or  "antimicrobial photodynamic therap\*".ti,ab. or  "apdt".ti,ab. or  "photodynam\*".ti,ab. or  "photo-dynam\*".ti,ab. or  "photosensib\*".ti,ab. or  "photo-sensib\*".ti,ab. or  "photosensit\*".ti,ab. or  "photo-sensit\*".ti,ab. or  "phototox\*".ti,ab. or  "photo-tox\*".ti,ab. or  "photodamage\*".ti,ab. or  "photo-damage\*".ti,ab. or  "light damage\*".ti,ab. or  "Phototarget\*".ti,ab. or  "Photo-target\*".ti,ab. or  "phototherap\*".ti,ab. or  "photo-therap\*".ti,ab. or  "photoradiat\*".ti,ab. or  "photo-radiat\*".ti,ab. or  "photolysis\*".ti,ab. or  "photo-lys\*".ti,ab. or  "photolysit\*".ti,ab. or  "photo-lyt\*".ti,ab. or  "Photobiomodulat\*".ti,ab. or  "Photo-biomodulat\*".ti,ab. or  ((light or laser\* or photo\*) adj10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)).ti,ab. or  ((light or laser\* or photo\*) adj1 (therap\* or treatment\*)).ti,ab. |
| 2 | antimicrobial therapy/ or  bacterium/ or  bacteriostasis/ or  bacterial infection/ or  biofilm/ or  disinfection/ or  "microb\*".ti,ab. or  "antimicrob\*".ti,ab. or  "anti-microb\*".ti,ab. or  "bacter\*".ti,ab. or  "antibacter\*".ti,ab. or  "anti-bacter\*".ti,ab. or  "antiinfect\*".ti,ab. or  "anti-infect\*".ti,ab. or  "biofilm\*".ti,ab. or  "pathogen\*".ti,ab. or  "infect\*".ti,ab. or  "disinfect\*".ti,ab. or  exp Staphylococcus/ or  Staphylococcus infection/ or  exp Aggregatibacter/ or  exp Porphyromonas/ or  exp Actinomyces/ or  actinomycosis/ or  Rothia dentocariosa/ or  exp Streptococcus/ or  Streptococcus infection/ or  exp Prevotella/ or  exp Enterococcus/ or  enterococcal infection/ or  exp Fusobacterium/ or  Fusobacterium infection/ or  exp Campylobacter/ or  exp Lactobacillus/ or  exp Treponema/ or  "Staphylococcus".ti,ab. or  "MRSA".ti,ab. or  "Aggregatibacter".ti,ab. or  "Porphyromonas".ti,ab. or  "Actinomyces".ti,ab. or  "Streptococcus".ti,ab. or  "Prevotella".ti,ab. or  "Enterococcus".ti,ab. or  "Fusobacterium".ti,ab. or  "Campylobacter".ti,ab. or  "Tannerela".ti,ab. or  "Lactobacillus".ti,ab. or  "Treponema".ti,ab. or  "Veilonella".ti,ab. |
| 3 | 1 and 2 |
| 4 | "photodynamic inactivation of bacteria"/ |
| 5 | 3 or 4 |
| 6 | exp periodontal disease/ or  exp tooth infection/ or  "oral".ti,ab. or  "dental".ti,ab. or  "endodon\*".ti,ab. or  "periodon\*".ti,ab. or  "gingiva\*".ti,ab. or  "subgingival".ti,ab. or  "sub-gingival".ti,ab. or  "dentist\*".ti,ab. or  "caries".ti,ab. or  "carious ".ti,ab. or  "tooth".ti,ab. or  "teeth".ti,ab. or  "odonto\*".ti,ab. or  "root canal".ti,ab. or  "peri-implant disease\*".ti,ab. or  "periimplant disease\*".ti,ab. or  "periimplantitis".ti,ab. or  "peri-implantitis".ti,ab. or  (implant\* adj5 (inflamm\* or infect\* or diseas\*)).ti,ab. |
| 7 | 5 and 6 |

## Web of Science / Science Citation Index Expanded

Syntax: Web of Science

|  |  |
| --- | --- |
| **Result set** | **Search statement** |
| # 1 | TS="Photochemotherap\*" OR  TS="Photo-chemotherap\*" OR  TS="photoinactivat\*" OR  TS="photo-inactivat\*" OR  TS="antimicrobial photodynamic therap\*" OR  TS="apdt" OR  TS="photodynam\*" OR  TS="photo-dynam\*" OR  TS="photosensib\*" OR  TS="photo-sensib\*" OR  TS="photosensit\*" OR  TS="photo-sensit\*" OR  TS="phototox\*" OR  TS="photo-tox\*" OR  TS="photodamage\*" OR  TS="photo-damage\*" OR  TS="light damage\*" OR  TS="Phototarget\*" OR  TS="Photo-target\*" OR  TS="phototherap\*" OR  TS="photo-therap\*" OR  TS="photoradiat\*" OR  TS="photo-radiat\*" OR  TS="photolysis\*" OR  TS="photo-lys\*" OR  TS="photolysit\*" OR  TS="photo-lyt\*" OR  TS="Photobiomodulat\*" OR  TS="Photo-biomodulat\*" OR  TS=((light or laser\* or photo\*) NEAR/10 (kill\* or inactivat\* or Sensitiv\* or Disinfect\* or sterili\*)) OR  TS=((light or laser\* or photo\*) NEAR/1 (therap\* or treatment\*)) |
| # 2 | TS="microb\*" OR  TS="antimicrob\*" OR  TS="anti-microb\*" OR  TS="bacter\*" OR  TS="antibacter\*" OR  TS="anti-bacter\*" OR  TS="antiinfect\*" OR  TS="anti-infect\*" OR  TS="biofilm\*" OR  TS="pathogen\*" OR  TS="infect\*" OR  TS="disinfect\*" OR  TS="Bacteroides" OR  TS="Actinomycosis" OR  TS="Staphylococcus" OR  TS="MRSA" OR  TS="Aggregatibacter" OR  TS="Porphyromonas" OR  TS="Actinomyces" OR  TS="Streptococcus" OR  TS="Prevotella" OR  TS="Enterococcus" OR  TS="Fusobacterium" OR  TS="Campylobacter" OR  TS="Tannerela" OR  TS="Lactobacillus" OR  TS="Treponema" OR  TS="Veilonella" |
| # 3 | TS="oral" OR  TS="dental" OR  TS="endodon\*" OR  TS="periodon\*" OR  TS="gingiva\*" OR  TS="subgingival" OR  TS="sub-gingival" OR  TS="dentist\*" OR  TS="caries" OR  TS="carious " OR  TS="tooth" OR  TS="teeth" OR  TS="odonto\*" OR  TS="root canal" OR  TS="peri-implant disease\*" OR  TS="periimplant disease\*" OR  TS="periimplantitis" OR  TS="peri-implantitis" OR  TS=(implant\* NEAR/5 (inflamm\* or infect\* or diseas\*)) |
| # 4 | #2 AND #1 |
| # 5 | #4 AND #3 |