1º Revisión Criterios:

1º query = Leptin and Alzheimer´s disease and ("review" OR "systematic review”) AND ("not meta-analysis of RCTs"[Publication Type] OR "review"[Publication Type])’

2º query= Leptin AND "cognitive decline" ("review" OR "systematic review”)

AND ("not meta-analysis of RCTs"[Publication Type] OR "review"[Publication Type])’

3º query= Leptin AND “metaflammation" ("review" OR "systematic review”) AND ("not meta-analysis of RCTs"[Publication Type] OR "review"[Publication Type])’

4º query= Cytokine signaling JAK-STAT“ ("review" OR "systematic review”)

AND ("not meta-analysis of RCTs"[Publication Type] OR "review"[Publication Type])’

* Inclusion\_criteria —>
  + - "Studies published in English, peer-reviewed journals”
    - About leptin and Alzheimer’s
    - Relevant papers available as full text
    - Publications in English
    - Review papers
* Stopping\_criteria  --> 20% of total quota selected for tranche
* Study\_type  —> Narrative review or systematic review
* Primary\_topic\_area  —>Neuroscience, Alzheimer’s and Leptin
* Exclusion Criteria   —>
  + - Any other studies
    - Non relevant topic
    - Full-text not available
    - Paper not available in English

2º Revisión Criterios:

1º query= "Alzheimer´s" AND ("leptin" OR "leptin resistance") AND “Neuroinflammation"

2º query= ("beta amyloid" OR "Amyloid protein") AND ("leptin" OR "leptin resistance”)

3º query= ("Tau protein" OR "TAU") AND ("Leptin" OR "Leptin resistance”)

4º query= hippocampus and ("neurogenesis" OR "neurons" OR "LTP") and leptin

* Inclusion\_criteria —>
  + - "Studies published in English, peer-reviewed journals”
    - About leptin and Alzheimer’s
    - Relevant papers available as full text
    - Primary research
* Publications in English
* Stopping\_criteria  —> 40% of total quota selected for tranche
* Study\_type  —> In vitro, In vivo, Animal studies, Human studies
* Primary\_topic\_area  —>Neuroscience, Alzheimer’s and Leptin
* Exclusion Criteria   -->
  + - Any other Studies
    - Non relevant topic
    - Full-text not available
    - Paper not available in English

3º Revisión Criterios:

**Filtro: randomized control trials**

1º.  query= Omega 3 AND ( "leptin" OR "Leptin resistance")

Hits: 44

2º query= Omega 3 AND Alzheimer´s

Hits: 88

3º query= Omega 3 AND ( "TAU" OR "amyloid" OR "amyloid beta" OR "Abeta42/40" OR "Abeta42")

Hits: 27

3º query= Omega 3 AND ("Cognitive decline" OR "Cognitive impairment")

 Hits: 84

4º query= Omega 3 AND ("neuroinflammation" OR "cytokines" OR "inflammatory markers") Hits: 342

* Inclusion\_criteria -->
  + - "Studies published in English, peer-reviewed journals”
    - About leptin and Alzheimer’s
    - Relevant papers available as full text
    - Randomized control trials
* Stopping\_criteria  --> 40% of total quota selected for tranche
* Study\_type  —> Randomized control trials
* Primary\_topic\_area  —>Neuroscience, Alzheimer’s and Leptin
* Exclusion Criteria   —>
  + - Any other Studies
    - Non relevant topic
    - Full-text not available
    - Paper not available in English