

Additional File 2: Information regarding bibliographic search and screening of articles

Search equation : pages 2 and 3

Details on search : page 4

Flow chart of screening for each of the 14 diseases: pages 5 to 18

Search strings in the 5 scientific databases:

Web of Science and OpenGrey:

(Name(s) of the disease OR name(s) of the pathogen agent(s)) AND ((species OR vector OR host OR community OR population OR prey) NEAR/5 (compos* OR structur* OR divers* OR densit* OR rich* OR abundan* OR dynamic* OR increas* OR decreas* OR chang* OR homogen* OR heterogen*)) AND ((land* OR habitat OR ecolog* OR ecosystem* OR predat* OR wildlife OR “wild life” or “wild animals” OR “wild fauna” OR biodiversity OR "dilution effect") OR (forest* OR shrub* OR scrub* OR wood* OR grass* OR pasture* OR arable* OR wetland OR peat* OR grove OR hedgerow OR mangrove OR savanna* OR bush OR bushes OR ricefield OR “rice fields” OR paddy OR plantation OR tundra OR pond OR canal OR ditch OR river OR stream OR creek OR bog OR marsh OR swamp OR fen OR lake OR oases OR delta OR mountain OR cave OR estuary OR dune OR lagoon OR island OR garden OR park OR “green areas”))

Scopus (search string in 3 parts separated by AND):

(Name(s) of the disease OR name(s) of the pathogen agent(s)) AND ((species OR vector OR host OR community OR population OR prey) W/5 (compos* OR structur* OR divers* OR densit* OR rich* OR abundan* OR dynamic* OR increas* OR decreas* OR chang* OR homogen* OR heterogen*)) AND (land* OR habitat OR ecolog* OR ecosystem* OR predat* OR wildlife OR “wild life” or “wild animals” OR “wild fauna” OR biodiversity OR "dilution effect" OR forest* OR shrub* OR scrub* OR wood* OR grass* OR pasture* OR arable* OR wetland OR peat* OR grove OR hedgerow OR mangrove OR savanna* OR bush OR ricefield OR “rice fields” OR paddy OR plantation OR tundra OR pond OR canal OR ditch OR river OR stream OR creek OR bog OR marsh OR swamp OR fen OR lake OR oases OR delta OR mountain OR cave OR estuary OR dune OR lagoon OR island OR garden OR park OR “green areas”)

Science Direct (enter the equation in the field « Title/abstract/keywords » :

(Name of the disease) AND (species OR vector OR host OR community) AND (composition OR diversity OR density OR richness)

PubMed:

(Name(s) of the disease[Title/Abstract] OR name(s) of the pathogen agent(s) [Title/Abstract]) AND (species[Title/Abstract] OR vector[Title/Abstract] OR host[Title/Abstract] OR community[Title/Abstract] OR population[Title/Abstract] OR prey[Title/Abstract]) AND (compos*[Title/Abstract] OR structur*[Title/Abstract] OR divers*[Title/Abstract] OR densit*[Title/Abstract] OR richn*[Title/Abstract] OR abundan*[Title/Abstract] OR dynamic*[Title/Abstract] OR increas*[Title/Abstract] OR decreas*[Title/Abstract] OR chang*[Title/Abstract] OR homogen*[Title/Abstract] OR heterogen*[Title/Abstract]) AND (land*[Title/Abstract] OR habitat[Title/Abstract] OR ecolog*[Title/Abstract] OR ecosystem*[Title/Abstract] OR predat*[Title/Abstract] OR wildlife[Title/Abstract] OR “wild life”[Title/Abstract] OR “wild animals”[Title/Abstract] OR “wild fauna”[Title/Abstract] OR biodiversity[Title/Abstract] OR "dilution effect"[Title/Abstract] OR forest*[Title/Abstract] OR shrub*[Title/Abstract] OR scrub*[Title/Abstract] OR wood*[Title/Abstract] OR grass*[Title/Abstract] OR pasture*[Title/Abstract] OR arable*[Title/Abstract] OR wetland[Title/Abstract] OR peat*[Title/Abstract] OR grove[Title/Abstract] OR hedgerow[Title/Abstract] OR mangrove[Title/Abstract] OR savanna*[Title/Abstract] OR bush[Title/Abstract] OR ricefield[Title/Abstract] OR “rice fields”[Title/Abstract] OR paddy[Title/Abstract] OR plantation[Title/Abstract] OR tundra[Title/Abstract] OR pond[Title/Abstract] OR canal[Title/Abstract] OR ditch[Title/Abstract] OR river[Title/Abstract] OR stream[Title/Abstract] OR creek[Title/Abstract] OR bog[Title/Abstract] OR marsh[Title/Abstract] OR swamp[Title/Abstract] OR fen[Title/Abstract] OR peatland[Title/Abstract] OR lake[Title/Abstract] OR oases[Title/Abstract] OR delta[Title/Abstract] OR mountain[Title/Abstract] OR cave[Title/Abstract] OR estuary[Title/Abstract] OR dune[Title/Abstract] OR lagoon[Title/Abstract] OR island[Title/Abstract] OR garden[Title/Abstract] OR park[Title/Abstract] OR "green areas")[Title/Abstract])

First block (Name(s) of the disease OR name(s) of the pathogen agent(s)):

Lyme disease: (Lyme OR “Borrelia burgdorferi”)

Malaria: (Malaria OR ((Plasmodium) NEAR/0 (falciparum OR malariae OR vivax OR ovale)))

Schistosomiasis: (Schistosomiasis OR ((Schistosomia) NEAR/0 (mansoni OR haematobium OR intercalatum OR japonicum OR mekongi)))

Leishmaniasis: (Leishmaniasis OR ((Leishmania OR Viannia) NEAR/0 (donovani OR infantum OR chagasi OR mexicana OR amazonensis OR venezuelensis OR tropica OR major OR aethiopica OR braziliensis OR guyanensis OR killicki OR panamensis OR peruvian)))

Dengue: (Dengue)

West Nile disease: (“West Nile”)

Chikungunya: (Chikungunya)

Zika: (Zika)

Echinococcosis: (Echinococcosis OR « *Echinococcus granulosus* » OR « *Echinococcus multilocularis* »)

Leptospirosis: (Leptospirosis OR « *Leptospira interrogans* » OR « Weil’s diseases » OR « Weil disease »)

Cryptosporidiosis: (Cryptosporidiosis OR « *Cryptosporidium hominis* » OR « *Cryptosporidium parvum* »)

Avian influenza: (Avian Influenza)

Brucellosis: (Brucellosis OR ((Brucella) NEAR/0 (*melitensis* OR *abortus* OR *suis* OR *canis*)))

Bovine tuberculosis: (Bovine tuberculosis OR “Mycobacterium bovis”)

Search were performed in the 5 scientific databases (in english and in french) at the following dates:

PubMed: 24 October 2018 (access through University of Aix-Marseille subscription)

OpenGrey: 25 October 2018 (open access)

Web of Science: 5 November 2018 (access through IRD subscription)

Scopus: 5 November 2018 (access through CIRAD subscription)

Science Direct: 24 October 2018 (access through University of Aix-Marseille subscription)

Avian Influenza

**Organizational websites
(non-screened)
n=148**

**Scientific database searches
n=520**
*(Web of Science n=230, Scopus n=237,
Science Direct n=53, PubMed=0, Open
Grey n=0)*

**Duplicates removed
n=153**

**Articles screened by title
n=367**

**Articles excluded by title
n=54**

**Articles screened by abstract
n=313**

**Articles excluded by abstract
n=252**

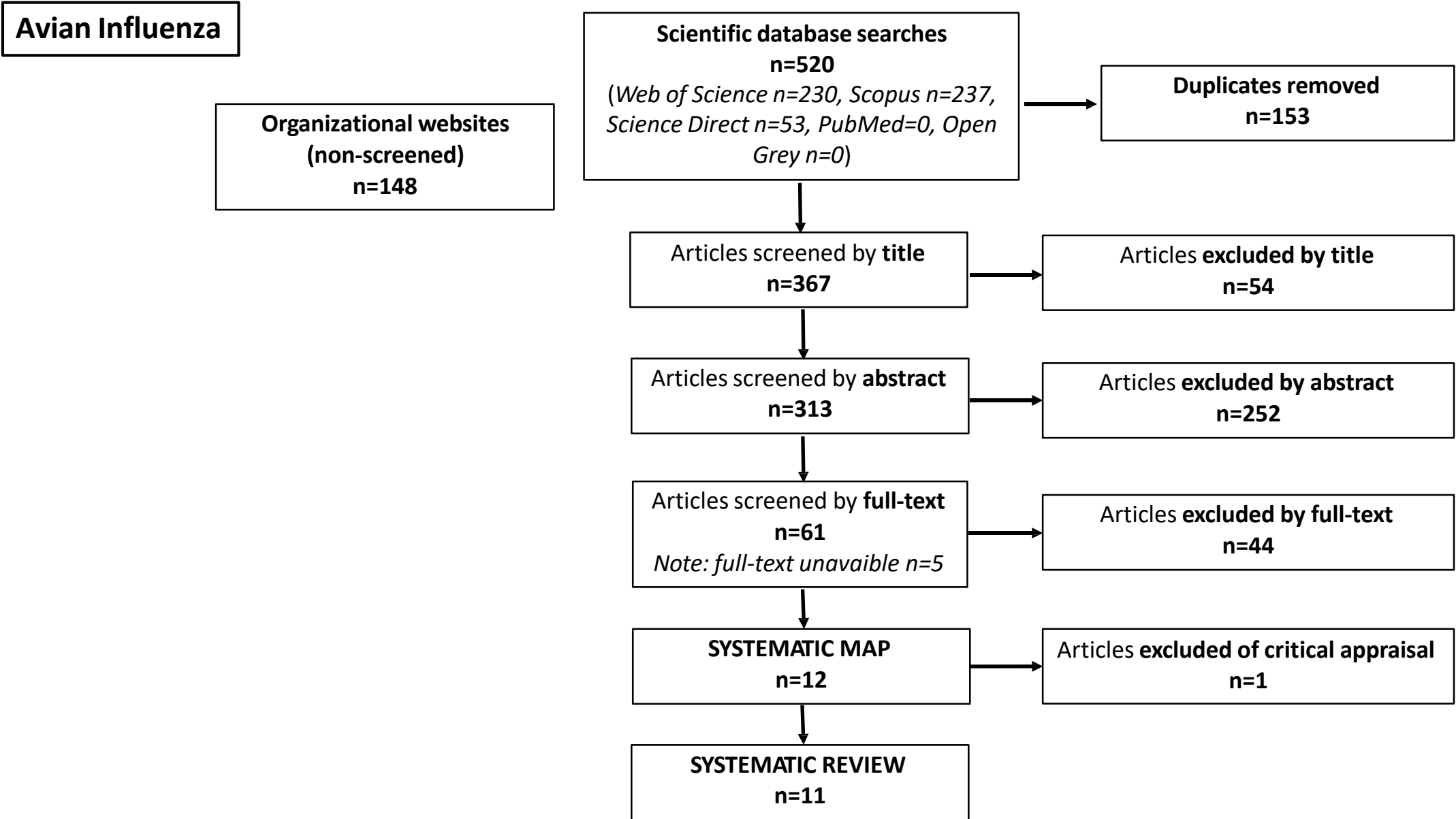
**Articles screened by full-text
n=61**
Note: full-text unavaible n=5

**Articles excluded by full-text
n=44**

**SYSTEMATIC MAP
n=12**

**Articles excluded of critical appraisal
n=1**

**SYSTEMATIC REVIEW
n=11**



Bovine Tuberculosis

**Organizational websites
(non-screened)
n=44**

**Scientific database searches
n=596**
*(Web of Science n=377, Scopus n=190,
Science Direct n=27, PubMed=0, Open
Grey n=2)*

**Duplicates removed
n=100**

Articles screened by **title**
n=496

Articles **excluded by title**
n=178

Articles screened by **abstract**
n=318

Articles **excluded by abstract**
n=276

Articles screened by **full-text**
n=33
Note: full-text unavaible n=9

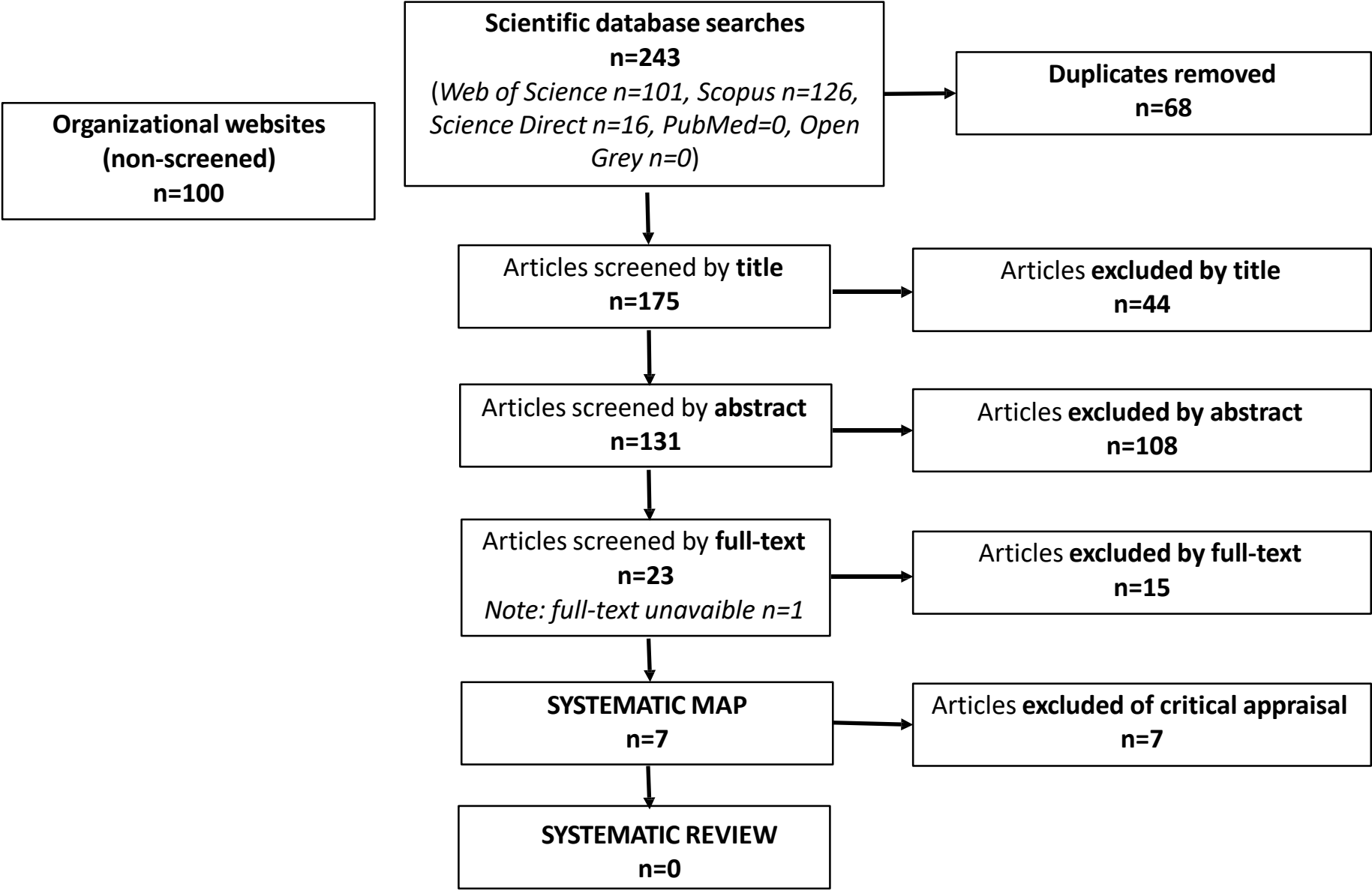
Articles **excluded by full-text**
n=16

**SYSTEMATIC MAP
n=9**

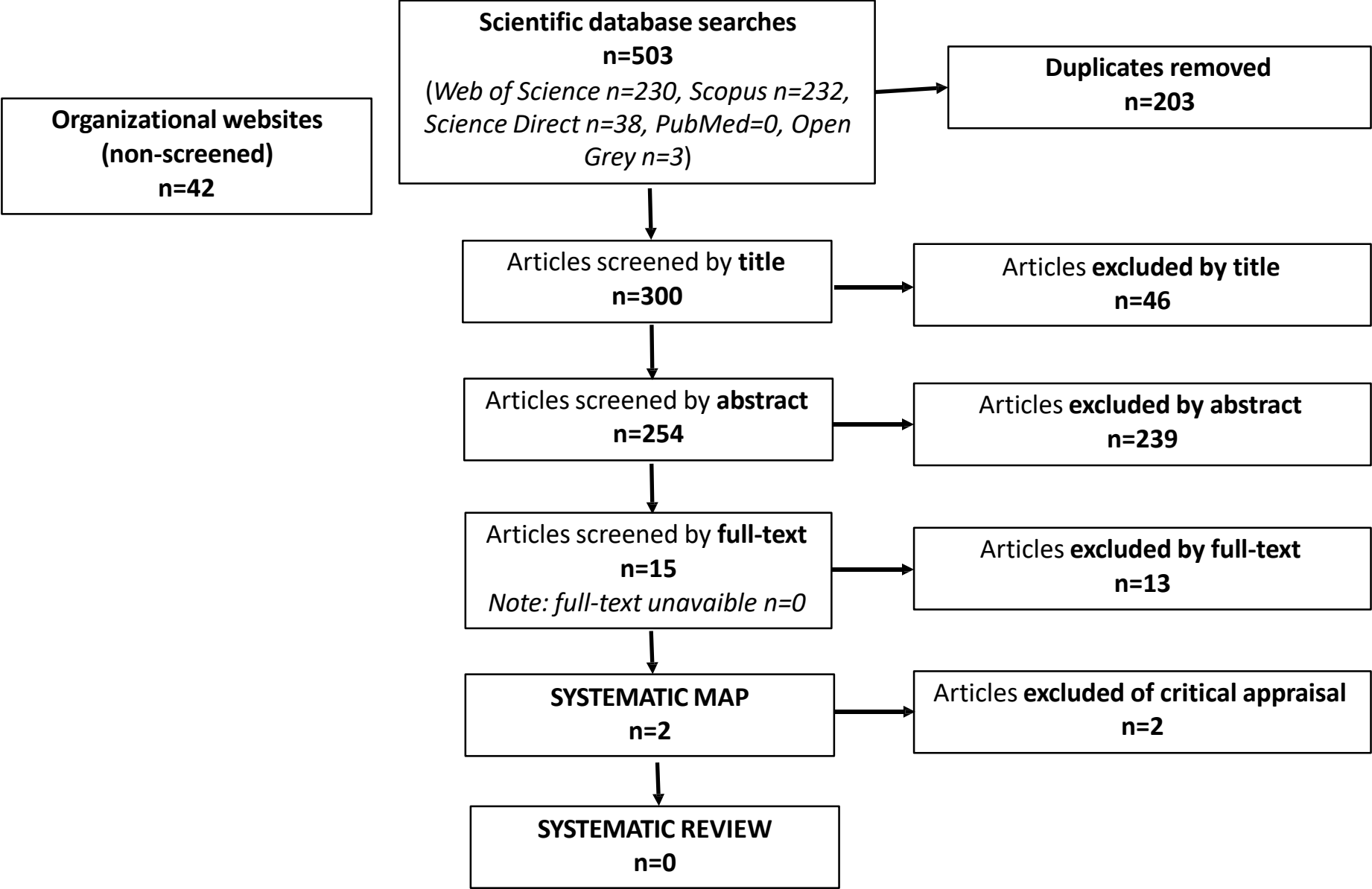
Articles **excluded of critical appraisal**
n=3

**SYSTEMATIC REVIEW
n=6**

Brucellosis

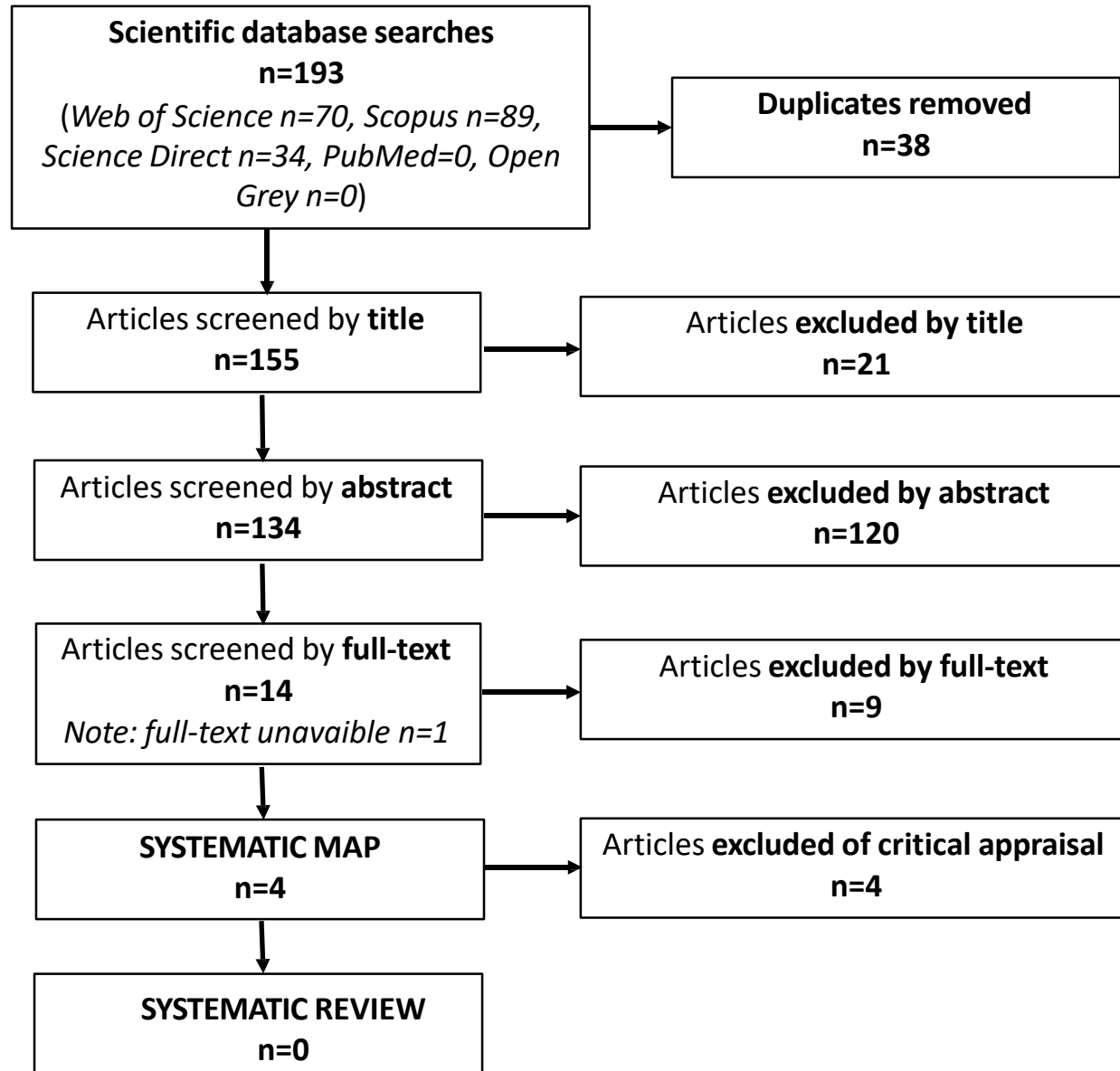


Chikungunya

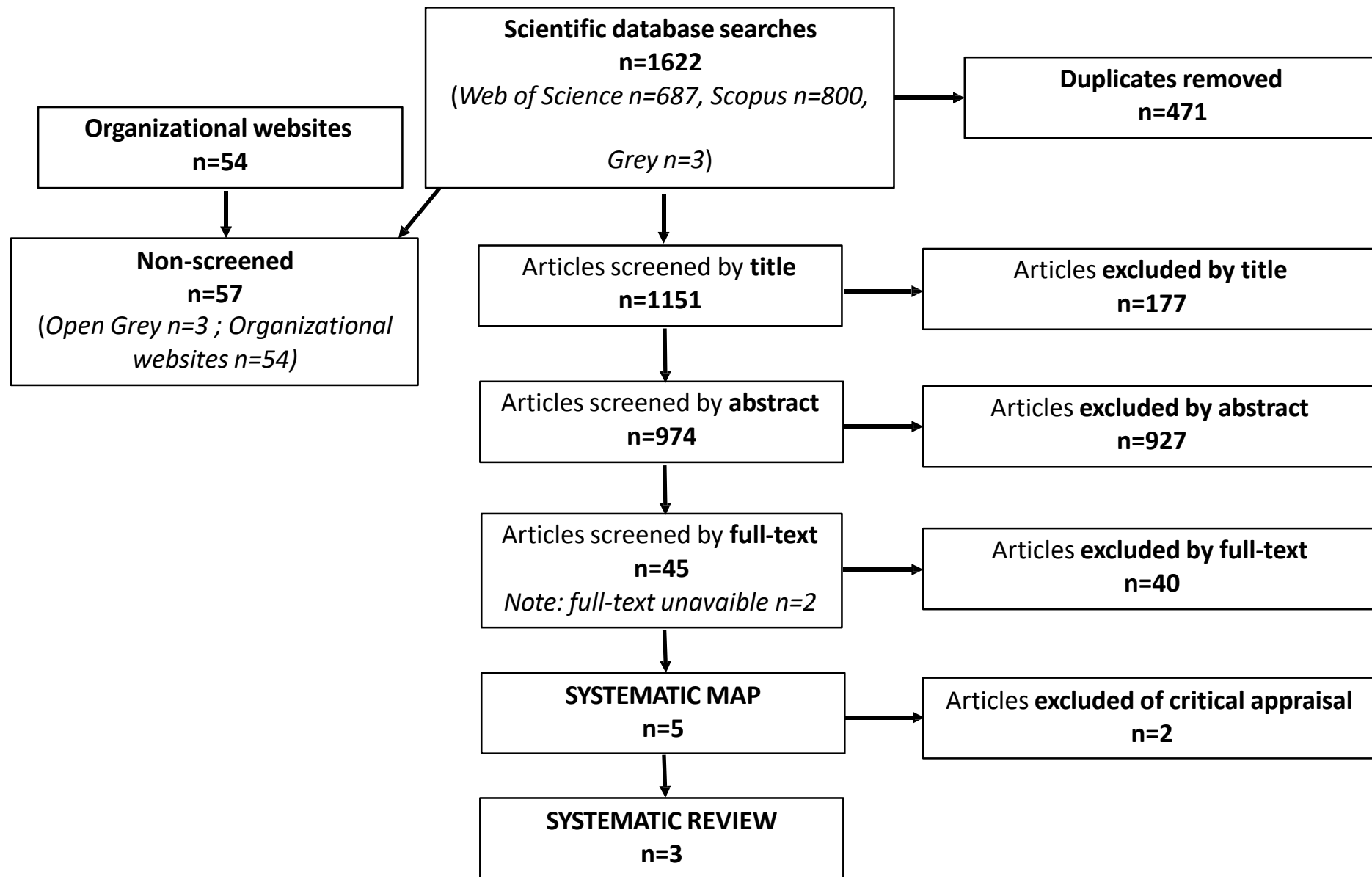


Cryptosporidiosis

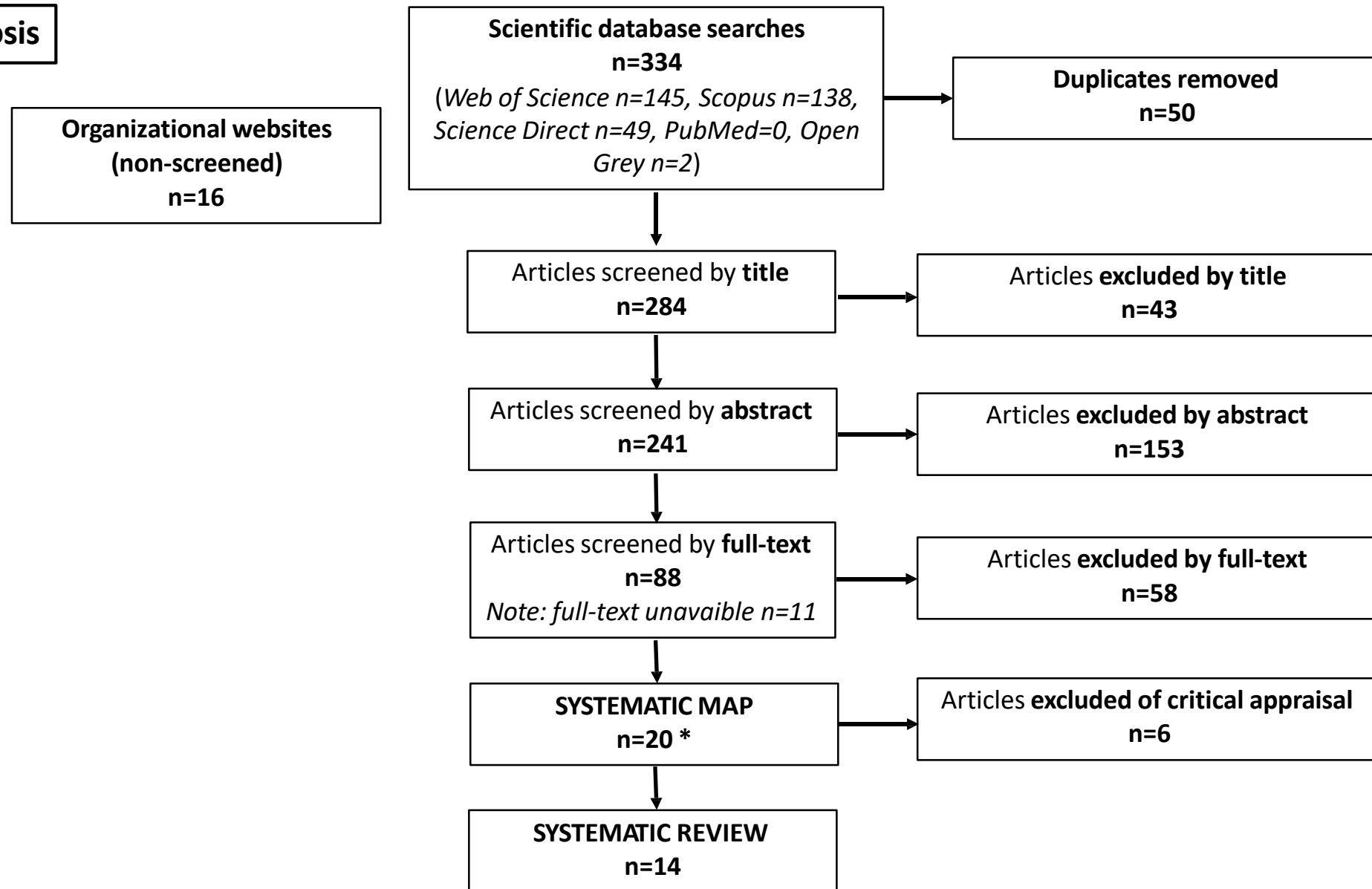
Organizational websites
(non-screened)
n=11



Dengue

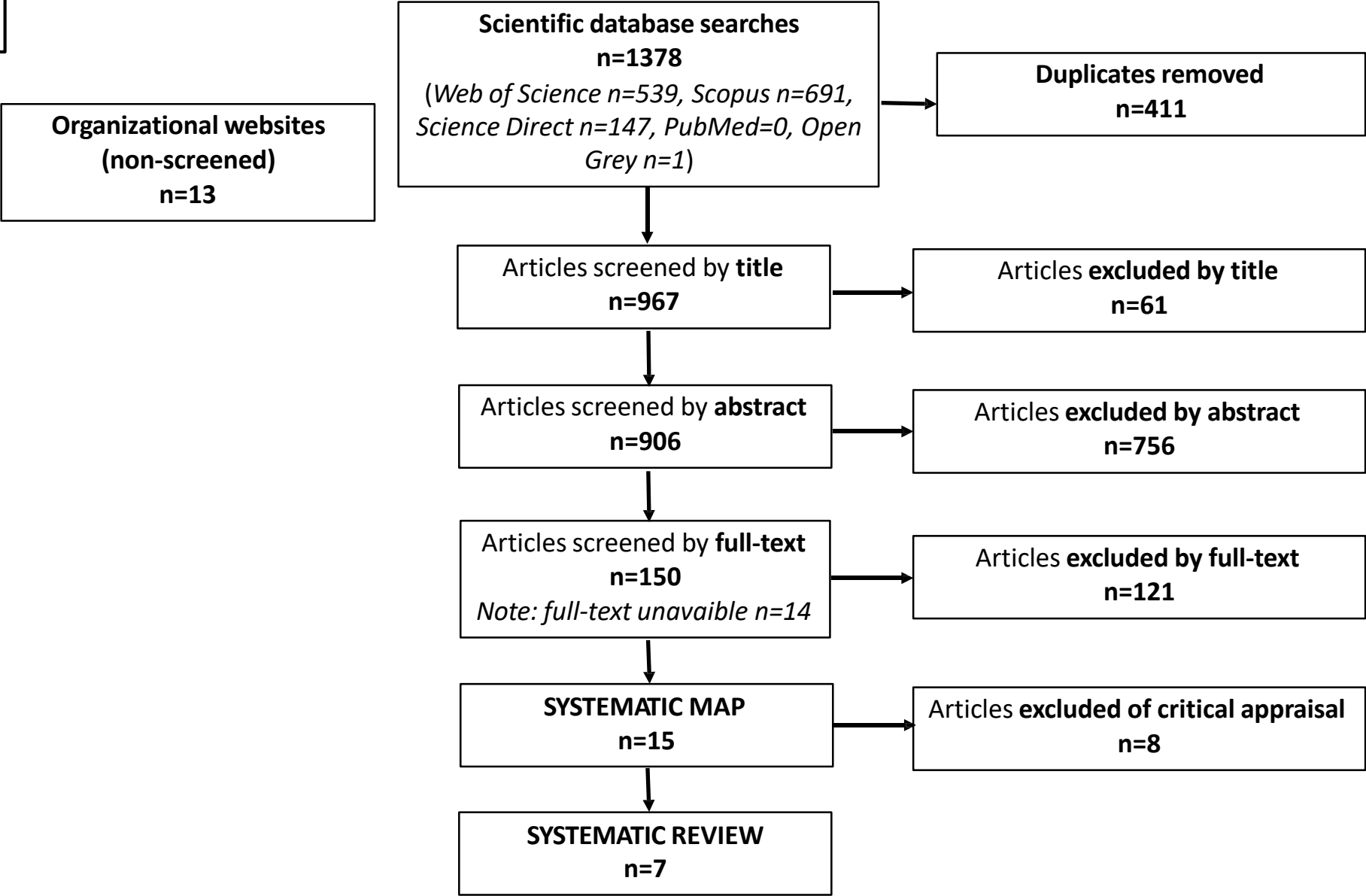


Echinococcosis

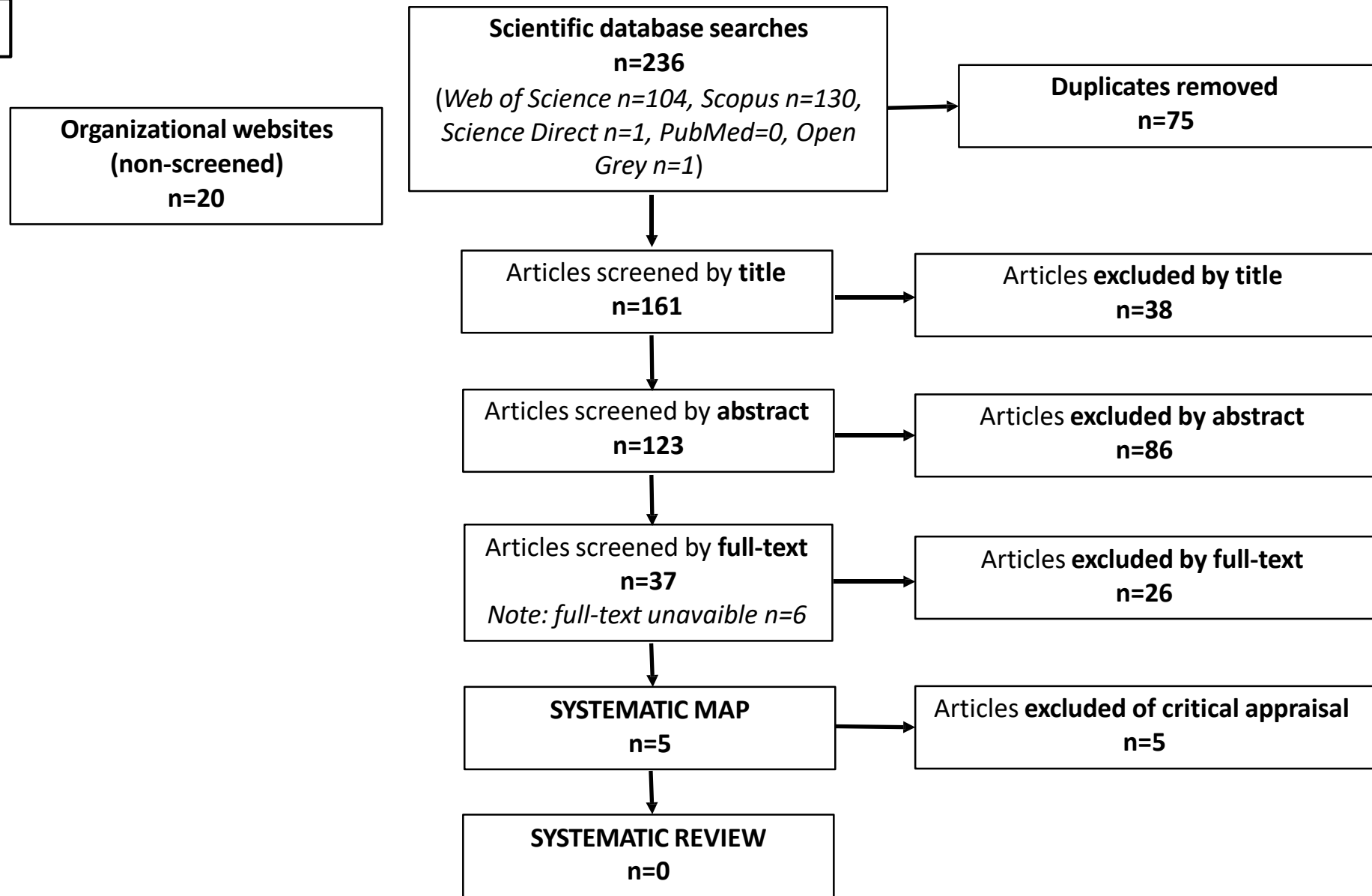


* 1 full-text (PhD thesis) generated 2 articles

Leishmaniasis



Leptospirosis



Lyme disease

**Organizational websites
(non-screened)
n=24**

**Scientific database searches
n=1481**
*(Web of Science n=799, Scopus n=595,
Science Direct n=79, PubMed=0, Open
Grey n=8)*

**Duplicates removed
n=419**

**Articles screened by title
n=1062**

**Articles excluded by title
n=173**

**Articles screened by abstract
n=889**

**Articles excluded by abstract
n=674**

**Articles screened by full-text
n=215**
Note: full-text unavaible n=19

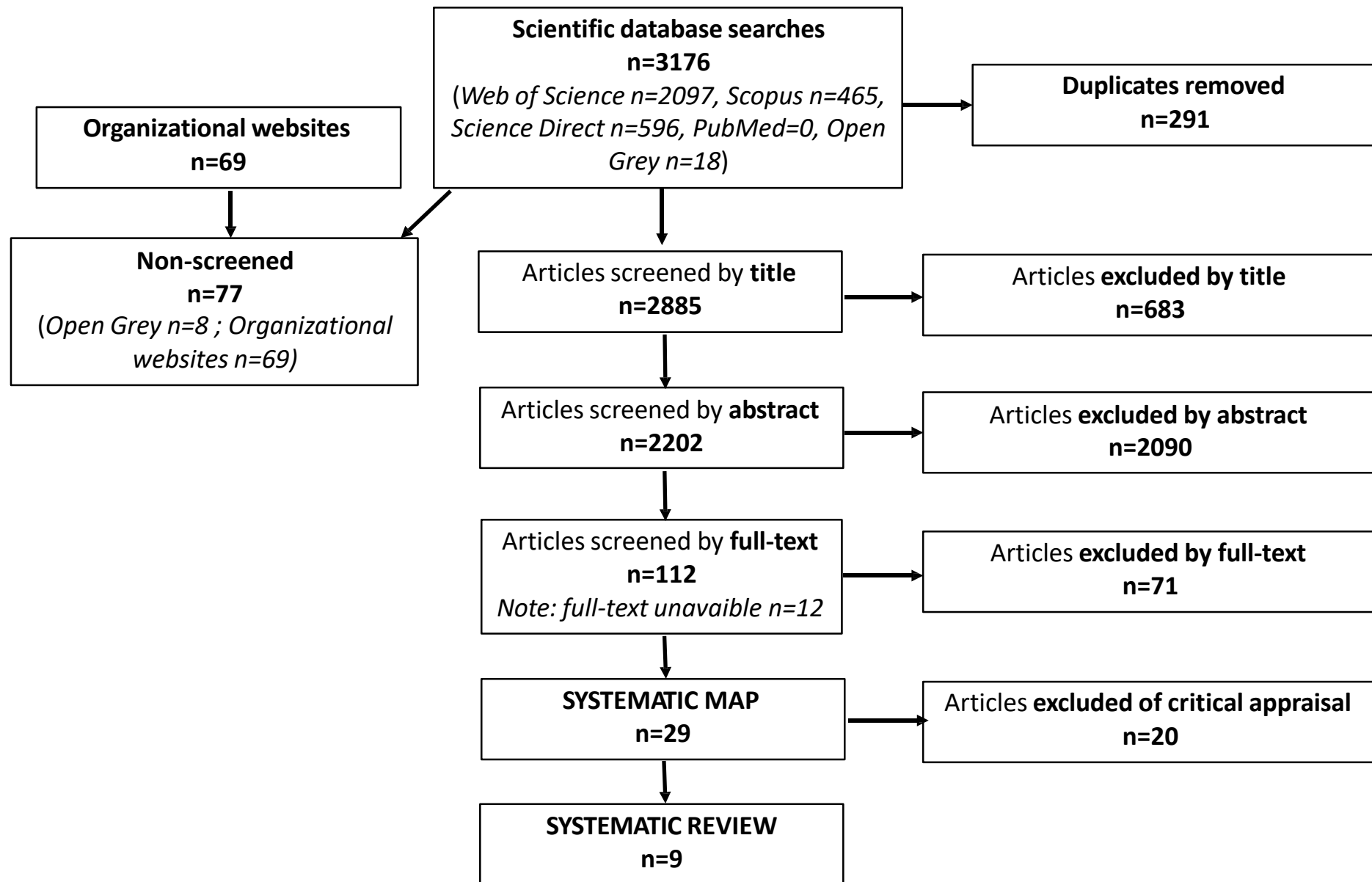
**Articles excluded by full-text
n=132**

**SYSTEMATIC MAP
n=64**

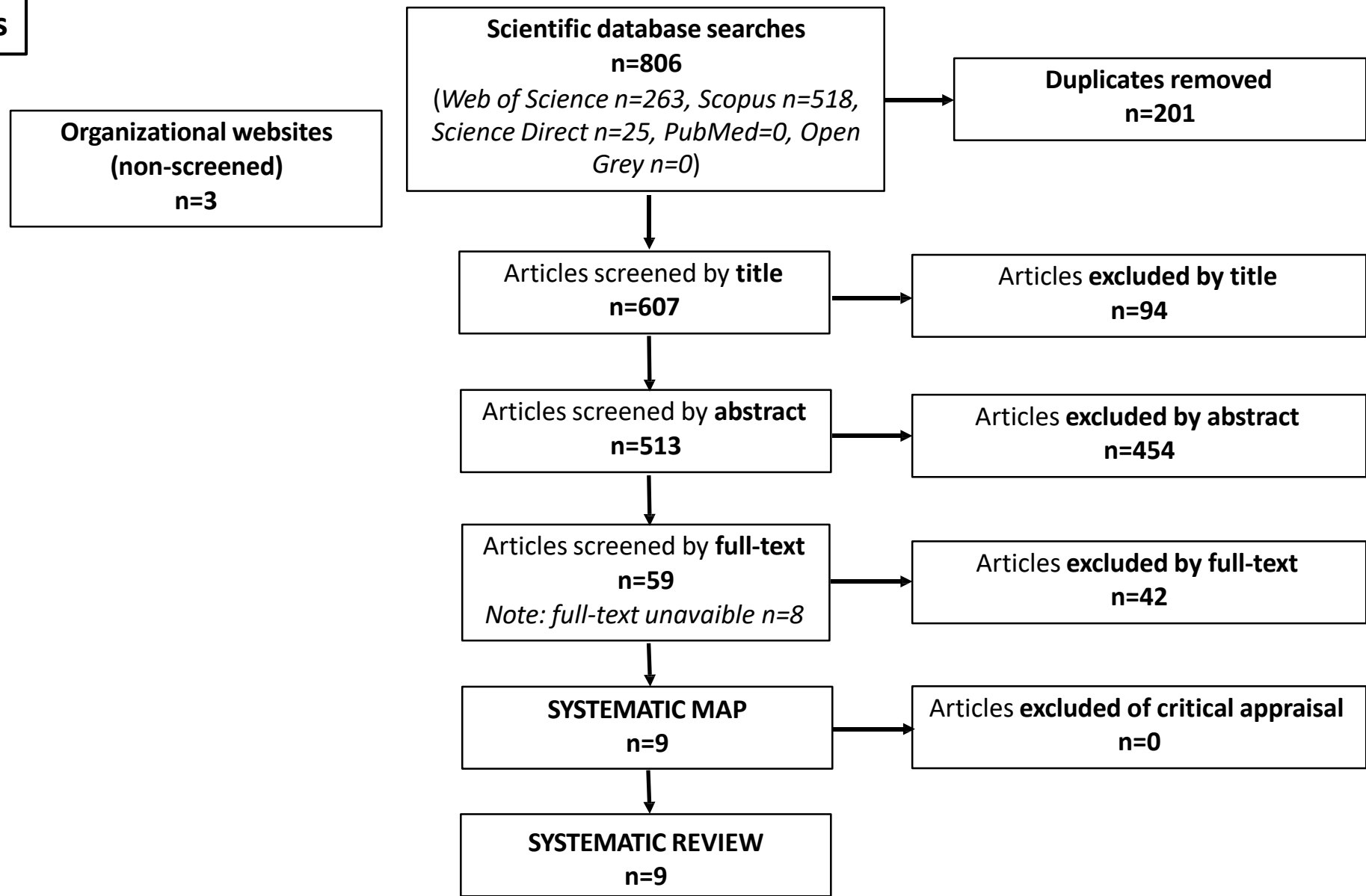
**Articles excluded of critical appraisal
n=33**

**SYSTEMATIC REVIEW
n=31**

Malaria



Schistosomiasis



West Nile Virus

Organizational websites
(non-screened)
n=39

