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Supplementary material

A scoping review and systematic map of primary studies assessing heat stress on reproductive, physiological, and productive parameters of farm animals

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Supplementary appendix

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Table S1. Representative detailed search strategy commands used to identify primary studies conducted in porcine, ovine, and caprine.

Database	Search string
Pubmed	Search ((((((heat stress) OR thermal stress) OR temperature-humidity index) OR hyperthermia)) AND ((((((porcine) OR pig) OR boar) OR female sow) OR swine) OR piglet)) NOT ((((((((((human) OR bacteria) OR virus) OR infection) OR disease) OR epidemio?) OR rat) OR mouse) OR mice) OR genetic)
Scopus	(TITLE-ABS-KEY (("heat stress" OR "thermal stress" OR hyperthermia) AND (pig OR swine OR boar OR porcine)) AND NOT TITLE-ABS-KEY (ovine OR sheep OR bovine OR cattle OR caprine OR goats OR human OR rat OR cell OR bacteria OR virus OR infection OR disease OR epidemiology OR infection OR disease)) AND DOCTYPE (ar)
ScienceDirect	Title, abstract or keywords ("heat stress" OR hyperthermia OR "temperature-humidity index" OR "thermal stress") AND (pig OR porcine OR female sow OR boar OR swine) Article Types, Research articles
BVS	tw:((tw:(heat stress)) AND (tw:(pig OR porcine OR sow))) AND (instance:"regional") AND (limit:("animals") AND jd:("MEDICINA VETERINARIA" OR "MEDICINA REPRODUCTIVA" OR "FISIOLOGIA") AND type:("article"))
Redalyc	(heat stress OR thermic stress) AND (porcine OR pig)

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Table S2. Coded data Outcome codification to obtain meta-data from the primary studies included in the systematic map.

Codified outcome	Obtained information	Values
Full reference	Authors list and title of the research	Free text
Publication year	Publication date in years	Integer number
Journal	Journal in which the study was published	Free text
Language	Publication language	Free text
Country and continent	Name of the country an continent in which the study was conducted	Free text
Weather	Weather of the site of study	Free text
Study design	Experimental, quasi-experimental or cohort study	Free text
Population	Species, breed, sex and age group	Free text
Intervention or exposition	Type of intervention or assessed exposition	Free text
Comparator	Comparator group used in the study	Free text
Outcomes	Parameter and assessed outcomes	Free text
Sample size	Total number of animals or groups assessed in each condition or exposition	Integer number
Time of treatment/period of follow up	Number of hours, days, weeks, months or years during which the study was conducted	Integer number
Study conditions	The way of induction of heat stress, temperature, and relative humidity values, THI value	Free text and integer number

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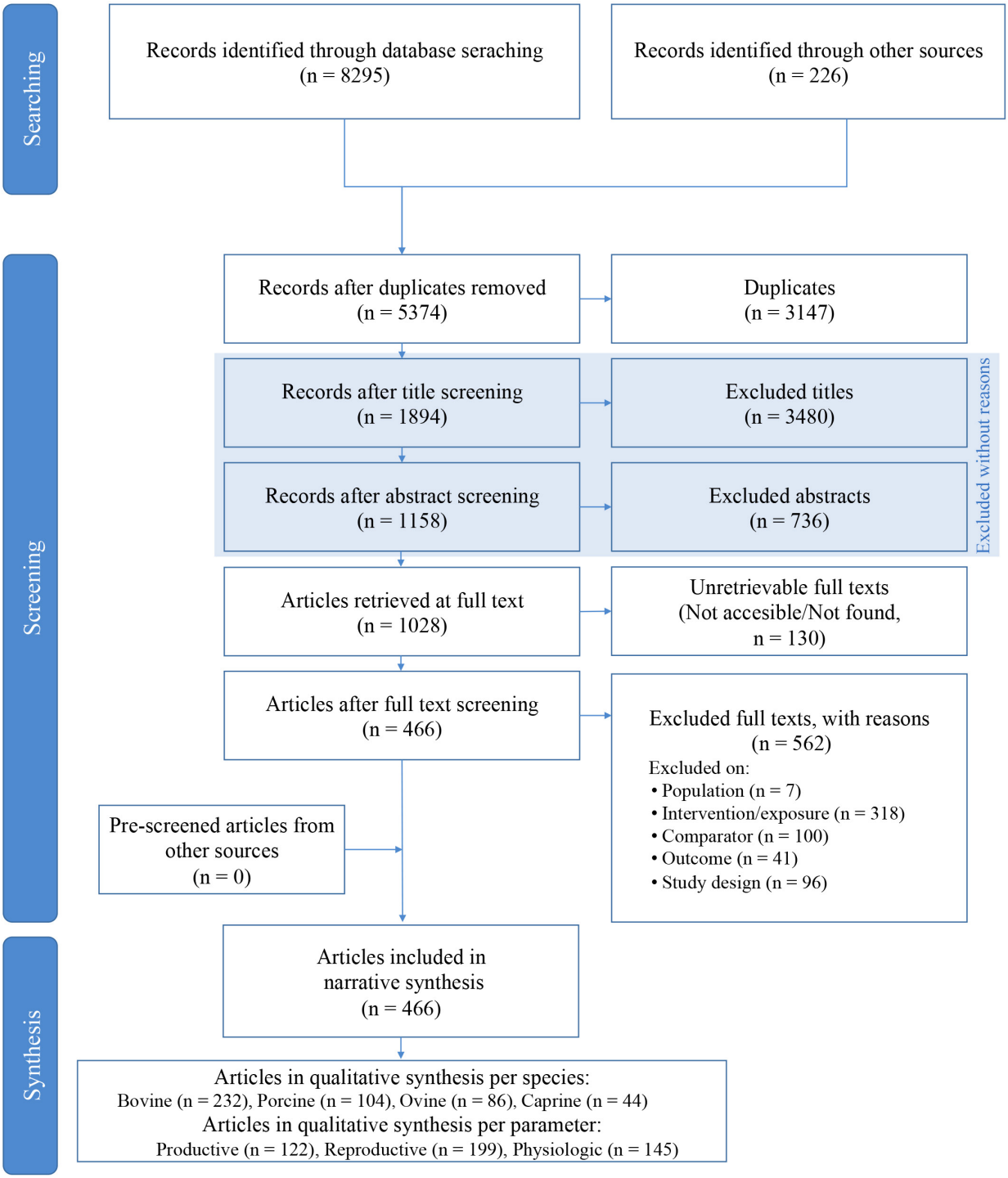

Figure S1. PRISMA flow diagram for the screening, selection, and inclusion of final studies

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Table S3. References of the selected studies for bovines

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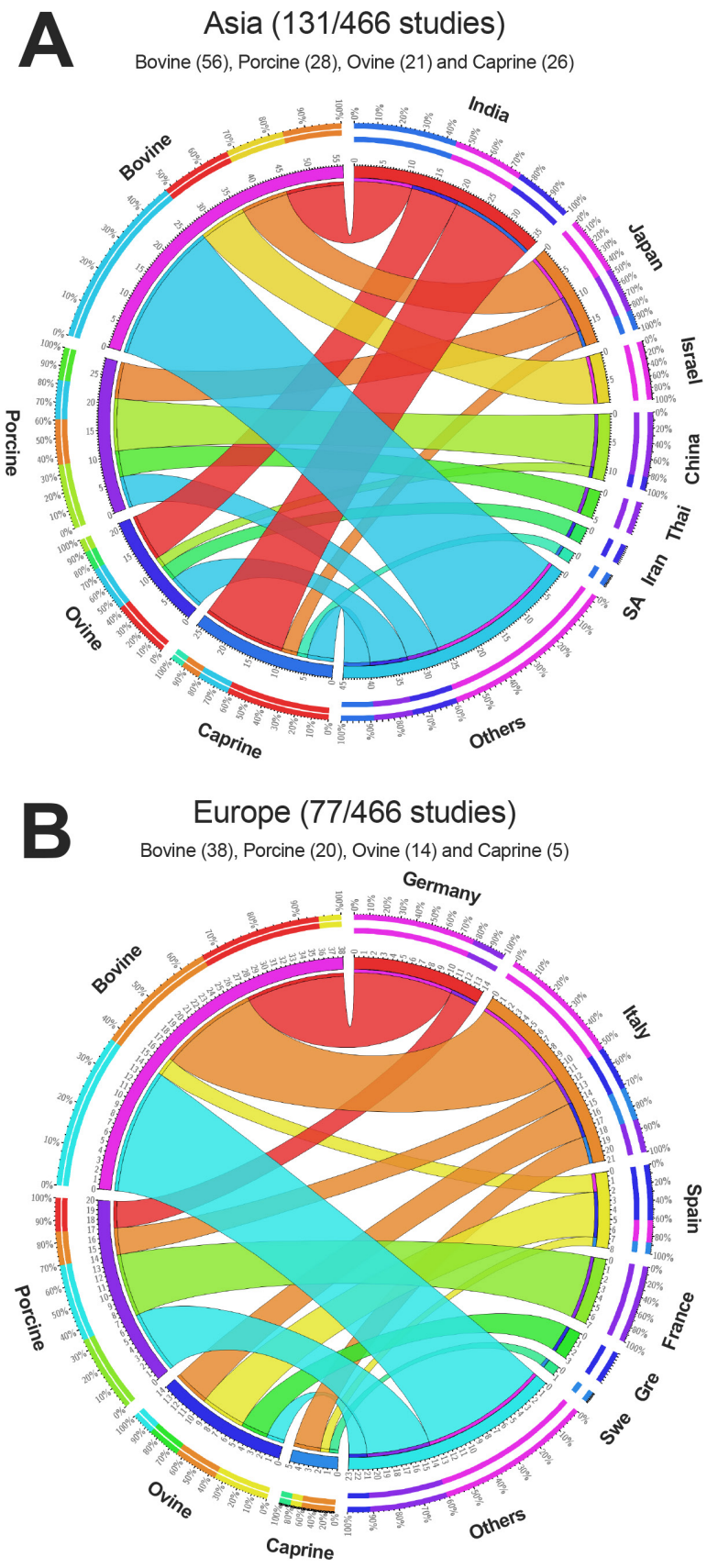

Figure S2. Circos plot of the association between the main countries that published the highest number of articles from Asia and Europe

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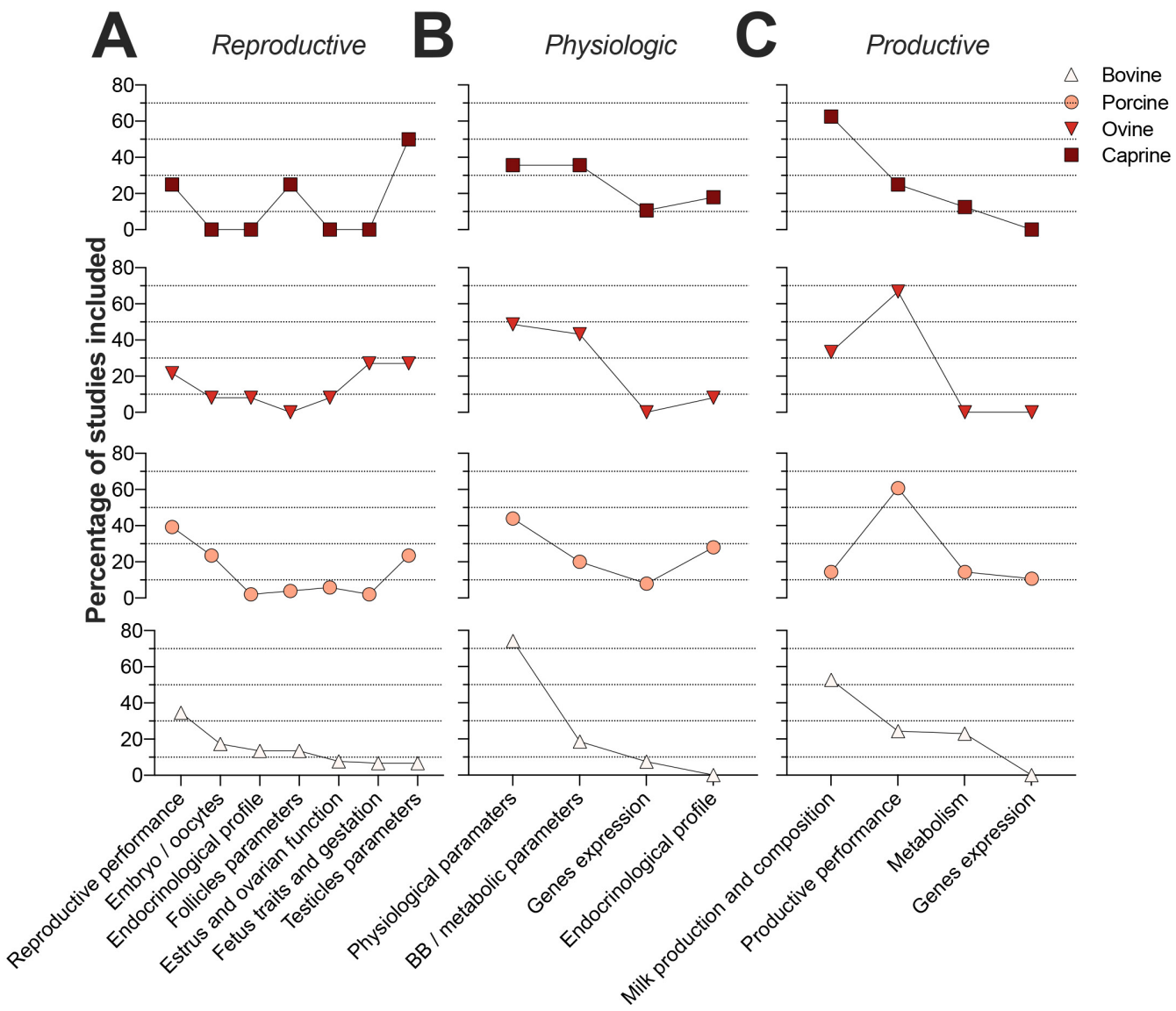

Figure S3. Percentage of articles that included each group of outcomes according to the productive species Relative contribution of studies per group of outcomes according to the species for the assessed A) Reproductive, B) Physiologic and C) Productive parameters. BB, blood biochemistry.