

Table S1. Detailed search strategy with search filters and number of studies recovered in electronic databases.

<i>PubMed-MEDLINE – Search filters</i>	<i>Records</i>
#1 Herbicide: (“glyphosate”[MeSH Terms] OR “glyceryl glyphosate”[MeSH Terms] OR “N-(phosphonomethyl)glycine”[TIAB] OR “Glyphosate”[TIAB] OR “glyphosate, monoammonium salt”[TIAB] OR “Roundup”[TIAB])	7582
#2 Biological target: (“gut microbiome”[TIAB] OR “gut microbiomes”[TIAB] OR “microbiome, gut”[TIAB] OR “gut microbiota”[TIAB] OR “Microbiota[MeSH Terms]” OR “microbiota, gut”[TIAB] OR “intestinal microbiome”[TIAB] OR “intestinal microbiomes”[TIAB] OR “microbiome, intestinal”[TIAB] OR “intestinal microbiota”[TIAB] OR “intestinal microbiotas”[TIAB] OR “microbiota, intestinal”[TIAB])	105000
#3 Combined search: #1 AND #2	490
<i>SCOPUS – Search filters</i>	<i>Records</i>
#1 Herbicide: TITLE-ABS-KEY(“glyphosate”) OR TITLE-ABS-KEY(“glyceryl glyphosate”) OR TITLE-ABS-KEY(“N-(phosphonomethyl)glycine”) OR TITLE-ABS-KEY(“Glyphosate”) OR TITLE-ABS-KEY(“glyphosate, monoammonium salt”) OR TITLE-ABS-KEY(“Roundup”)	17283
#2 Biological target: (TITLE-ABS-KEY(“gut microbiome”) OR TITLE-ABS-KEY(“gut microbiomes”) OR TITLE-ABS-KEY(“microbiome, gut”) OR TITLE-ABS-KEY(“gut microbiota”) OR TITLE-ABS-KEY(“gut microbiotas”) OR TITLE-ABS-KEY(“microbiota, gut”) OR TITLE-ABS-KEY(“Microbiota”) OR TITLE-ABS-KEY(“intestinal microbiome”) OR TITLE-ABS-KEY(“intestinal microbiomes”) OR TITLE-ABS-KEY(“microbiome, intestinal”) OR TITLE-ABS-KEY(“intestinal microbiota”) OR TITLE-ABS-KEY(“intestinal microbiotas”) OR TITLE-ABS-KEY(“microbiota, intestinal”))	139981
#3 Combined search: #1 AND #2	182

Database search was concluded on February Day, 2022 at 10:46 a.m.

Table S1 (continuation). Detailed search strategy with search filters and number of studies recovered in electronic databases.

<i>WEB OF SCIENCE – Search filters</i>	<i>Records</i>
#1 Herbicide: TS=glyphosate OR TS=glyceryl glyphosate OR TS=N-(phosphonomethyl)glycine OR TS=Glyphosate OR TS=glyphosate, monoammonium salt OR TS=Roundup	16747
#2 Biological target: TS=Gut microbiome OR TS=Gut microbiomes OR TS=Microbiome, gut OR TS=Gut microbiota OR TS=Gut microbiotas OR TS=Microbiota, gut OR TS=Intestinal microbiome OR TS=Microbiota OR TS=Intestinal microbiomes OR TS=Microbiome, intestinal OR TS=Intestinal microbiota OR TS=Intestinal microbiotas OR TS=Microbiota, intestinal	146112
#3 Combined search: #1 AND #2	158

Database search was concluded on February Day, 2022 at 10:46 a.m