

Appendix 1 Search strategy

1	Adaptive Immunity/	10935
2	Immunity, Innate/	65736
3	((adaptive or innate) adj3 immun*).tw,kf.	134213
4	exp Monocytes/ or monocyte*.tw,kf.	156826
5	Macrophages/ or Tumor-Associated Macrophages/or macrophage*.tw,kf.	354919
6	Myeloid-Derived Suppressor Cells/ or Myeloid-Derived Suppressor Cell*.tw,kf.	7238
7	(exp Killer Cells, Natural/ or (natural killer or nk).tw,kf.) adj2 cell*.tw,kf.	76554
8	exp t-lymphocytes/ or cd4-positive t-lymphocytes/ or cd8-positive t-lymphocytes/	373245
9	(t cell immun* or cytotoxic t cell* or "cd8+ t cell*" or "cd4+ t cell*").tw,kf.	138563
10	treg.tw,kf.	24109
11	(regulatory t cell* or foxp3 t cell*).tw,kf.	35286
12	T-Lymphocytes, Regulatory/	38141
13	T-Lymphocytes, Cytotoxic/	29200
14	(immune suppress* or immunosuppress*).tw,kf.	203333
15	immune system exhaustion/ or t-cell exhaustion/	153
16	exp Immune Checkpoint Inhibitors/ or exp Immune Checkpoint Proteins/	53861
17	((checkpoint or PD-L1 or CTLA-4 or Cytotoxic T-Lymphocyte-Associated Protein 4 or PD-1 or PD1 or programm* cell death) adj2 (inhibit* or block*).tw,kf.	53390
18	immunotherapy/ or immunotherapy, adoptive/	83259
19	(immunotherap* or immune therap* or chemoimmunotherap* or Radioimmunotherap*).tw,kf.	168839
20	(ipilimumab or tremelimumab or tremalimumab).mp.	6382
21	(pembrolizumab or nivolumab or atezolizumab or durvalumab or avelumab or dostarlimab or retifanlimab or cemiplimab or toripalimab).mp.	22035
22	or/1-21	1286735
23	exp Breast Neoplasms/	354401
24	((breast or mammary) adj6 (neoplas* or cancer* or tumor* or tumour* or carcinoma* or malignan*).tw,kf.	457221
25	tnbc.tw,kf.	12870
26	or/23-25	517695
27	22 and 26	23250
28	Gastrointestinal Microbiome/	44185
29	((Gastrointestinal or gut or gastric or intestin* or GI) adj5 (microbiome* or microflora or flora or microbiota)).tw,kf.	90802
30	enteric bacteria.tw,kf.	3379
31	Fecal Microbiota Transplantation/	3094
32	((fecal or stool) adj3 transplant*).tw,kf.	5509
33	exp Probiotics/	26189
34	probiotic*.tw,kf.	43539
35	Prebiotics/	4604
36	prebiotic*.tw,kf.	14690
37	(pre biotic* or pro biotic*).tw,kf.	188
38	Resistant Starch/	359
39	(resistant adj2 starch*).tw,kf.	3004
40	exp Anti-Bacterial Agents/	839003
41	(antibiotic* or anti bacterial*).tw,kf.	455011
42	exp Proton Pump Inhibitors/	21925
43	proton pump inhibit*.tw,kf.	18814
44	dexamethasone/ or prednisolone/or methylprednisolone/	107491
45	Hydrocortisone/	78132
46	(dexamethasone or methylprednisone or methylprednisolone or prednisone or hydrocortisone).tw,kf.	135577
47	or/28-46	1421528
48	27 and 47	505