

Figure 3 has been produced by using the following methodology. The search has been completed in PubMed.

1) Filter used to search Hospitals:

("hospita*" [All Fields] AND "Ab GENE" [All Fields] AND (("anti bacterial agents" [Pharmacological Action] OR "anti bacterial agents" [MeSH Terms] OR ("anti bacterial" [All Fields] AND "agents" [All Fields]) OR "anti bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic s" [All Fields] OR "antibiotical" [All Fields]) AND "resistanc*" [All Fields])) AND ((ffrft[Filter]) AND (fft[Filter]) AND (1990:3000/12/12[pdat]))

antibiotic: "anti-bacterial agents" [Pharmacological Action] OR "anti-bacterial agents" [MeSH Terms] OR ("anti-bacterial" [All Fields] AND "agents" [All Fields]) OR "anti-bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic's" [All Fields] OR "antibiotical" [All Fields]

2) Filter used to search Pets or in alternative “companion anima”

("pet" [All Fields] AND "Ab GENE" [All Fields] AND (("anti bacterial agents" [Pharmacological Action] OR "anti bacterial agents" [MeSH Terms] OR ("anti bacterial" [All Fields] AND "agents" [All Fields]) OR "anti bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic s" [All Fields] OR "antibiotical" [All Fields]) AND "resistanc*" [All Fields])) AND ((ffrft[Filter]) AND (fft[Filter]) AND (1990:3000/12/12[pdat]))

antibiotic: "anti-bacterial agents" [Pharmacological Action] OR "anti-bacterial agents" [MeSH Terms] OR ("anti-bacterial" [All Fields] AND "agents" [All Fields]) OR "anti-bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic's" [All Fields] OR "antibiotical" [All Fields]

Note plasmid pET was excluded.

3) Filter used to search recreational and park

((("recreational" [All Fields] OR "park*" [All Fields]) AND (("anti bacterial agents" [Pharmacological Action] OR "anti bacterial agents" [MeSH Terms] OR ("anti bacterial" [All Fields] AND "agents" [All Fields]) OR "anti bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic s" [All Fields] OR "antibiotical" [All Fields]) AND "resistanc*" [All Fields]) AND "tetM" [All Fields]) AND ((ffrft[Filter]) AND (fft[Filter]) AND (1990:3000/12/12[pdat]))

antibiotic: "anti-bacterial agents" [Pharmacological Action] OR "anti-bacterial agents" [MeSH Terms] OR ("anti-bacterial" [All Fields] AND "agents" [All Fields]) OR "anti-bacterial agents" [All Fields] OR "antibiotic" [All Fields] OR "antibiotics" [All Fields] OR "antibiotic's" [All Fields] OR "antibiotical" [All Fields]

4) Filter used to search sewage

("sewage"[All Fields] AND (("anti bacterial agents"[Pharmacological Action] OR "anti bacterial agents"[MeSH Terms] OR ("anti bacterial"[All Fields] AND "agents"[All Fields]) OR "anti bacterial agents"[All Fields] OR "antibiotic"[All Fields] OR "antibiotics"[All Fields] OR "antibiotic s"[All Fields] OR "antibiotical"[All Fields]) AND "resistanc*"[All Fields]) AND "tetA"[All Fields]) AND ((ffrft[Filter]) AND (fft[Filter]) AND (1990:3000/12/12[pdat]))

antibiotic: "anti-bacterial agents"[Pharmacological Action] OR "anti-bacterial agents"[MeSH Terms] OR ("anti-bacterial"[All Fields] AND "agents"[All Fields]) OR "anti-bacterial agents"[All Fields] OR "antibiotic"[All Fields] OR "antibiotics"[All Fields] OR "antibiotic's"[All Fields] OR "antibiotical"[All Fields]