ADDITIONAL MATERIALS

Research Report 237

Early-Life Air Pollution Exposure Is Associated with the Infant Gut Microbiome and Fecal Metabolome in the First Two Years of Life

Tanya L. Alderete et al.

Supplemental File 3

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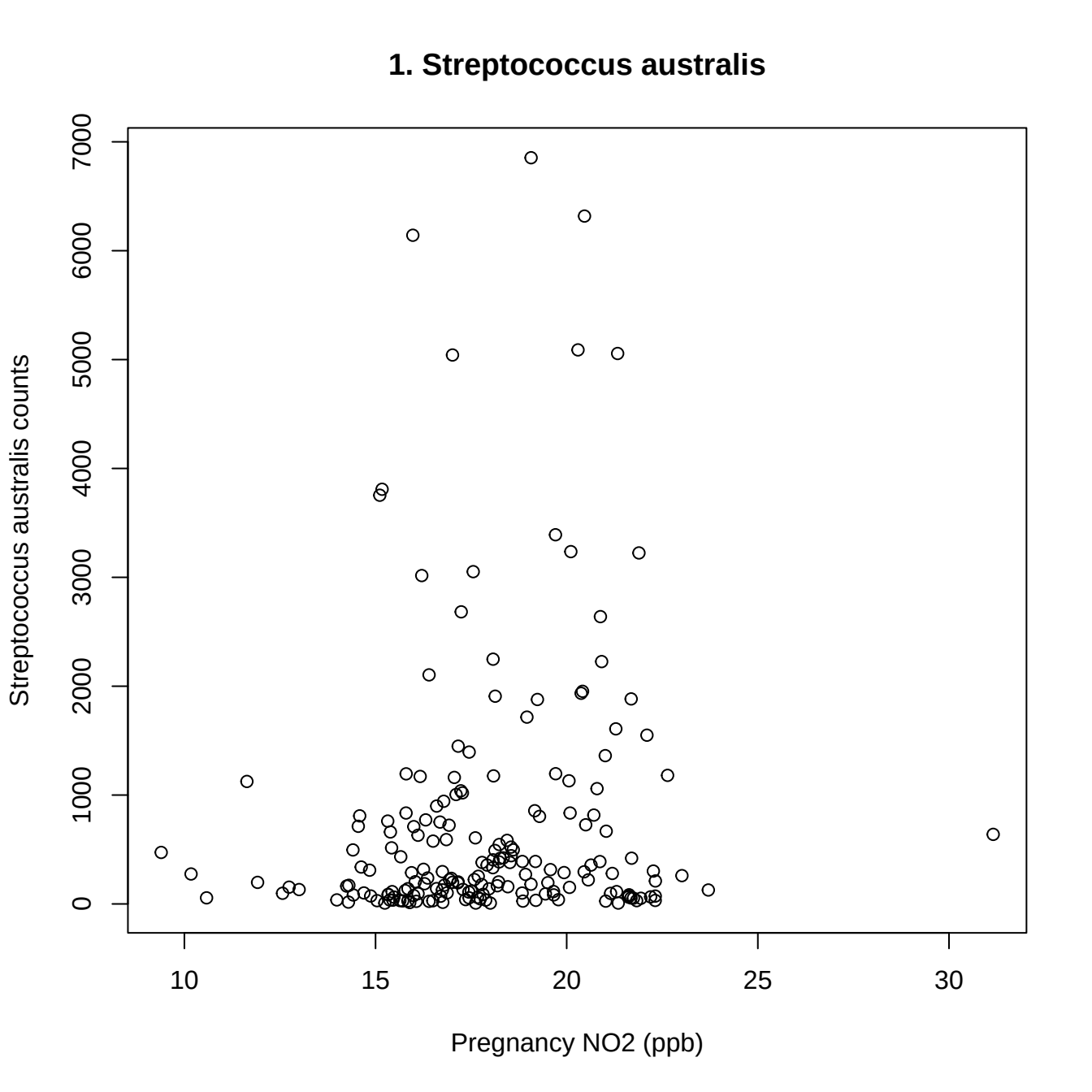
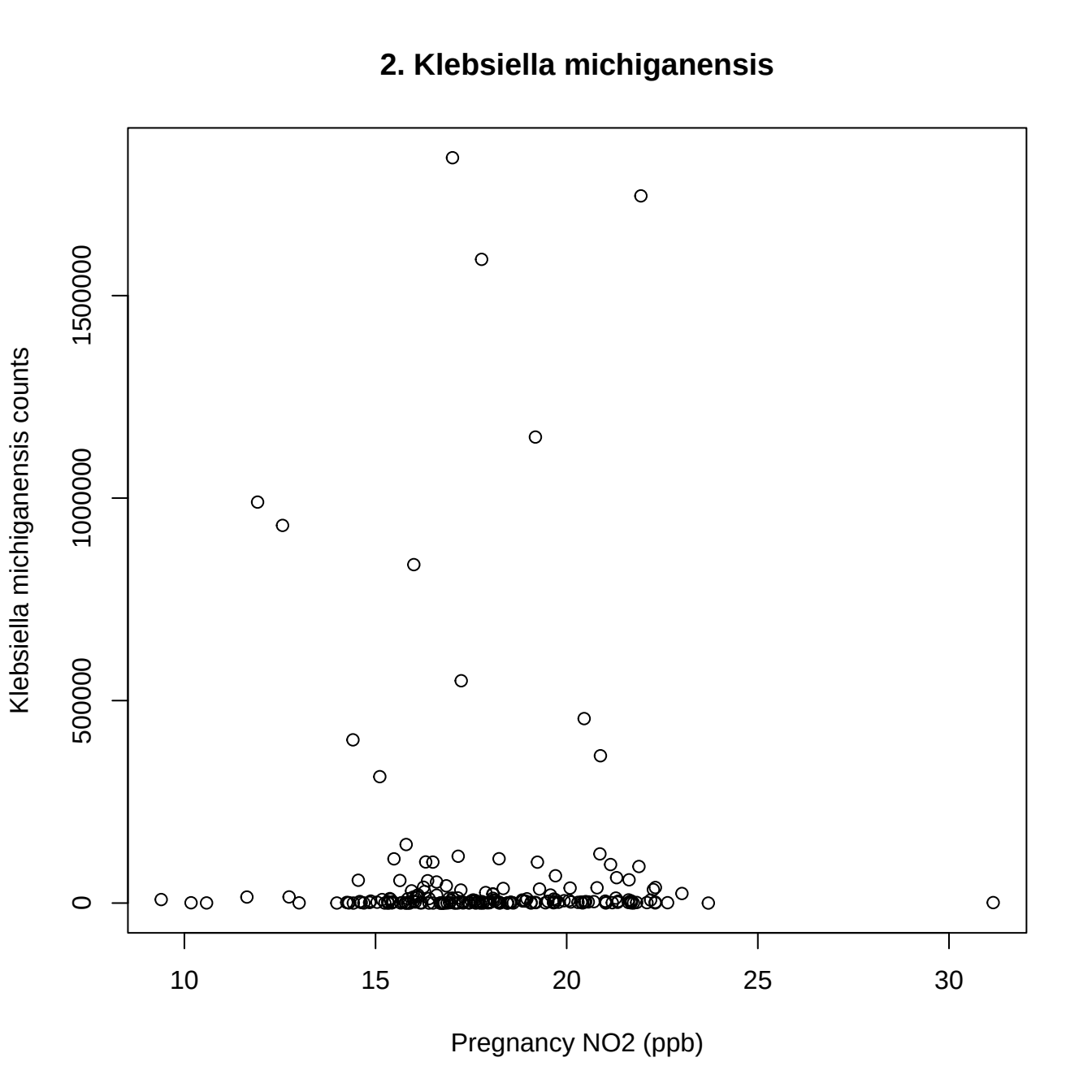

1. Streptococcus australis
Streptococcus australis counts
0
1000
2000
3000
4000
5000
6000
7000
10
15
20
25
30
Pregnancy NO2 (ppb)


2. Klebsiella michiganensis
Klebsiella michiganensis counts
0
500000
1000000
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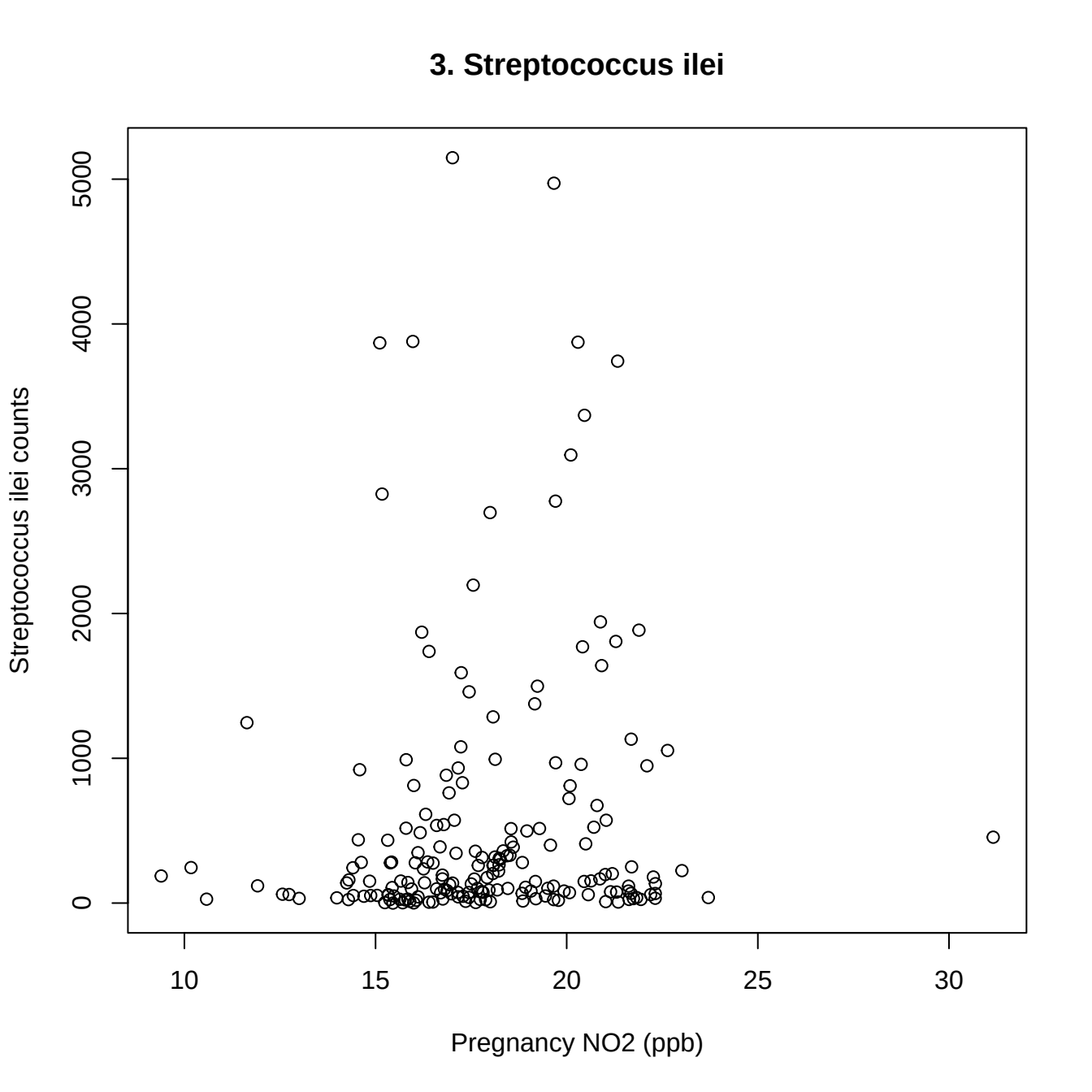
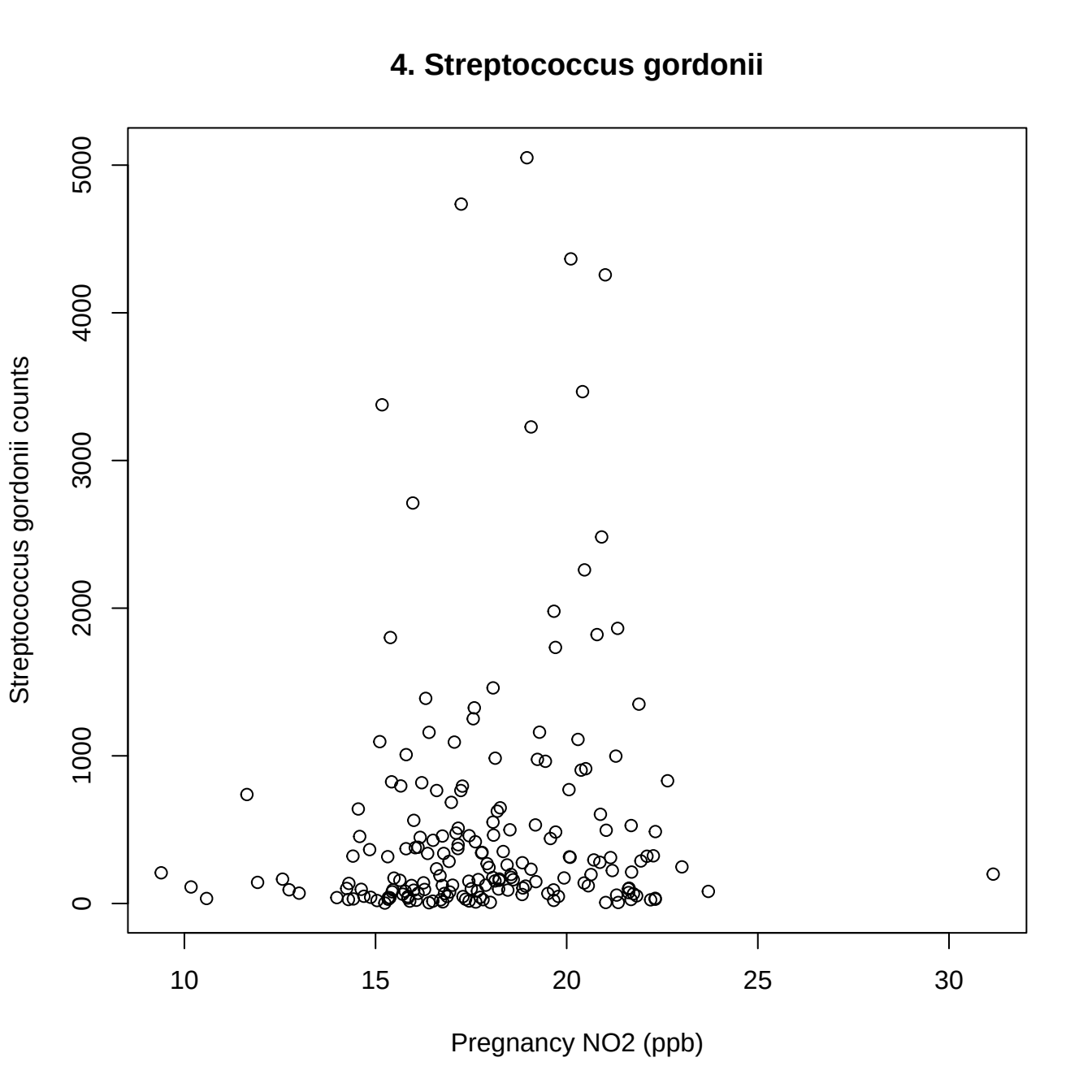
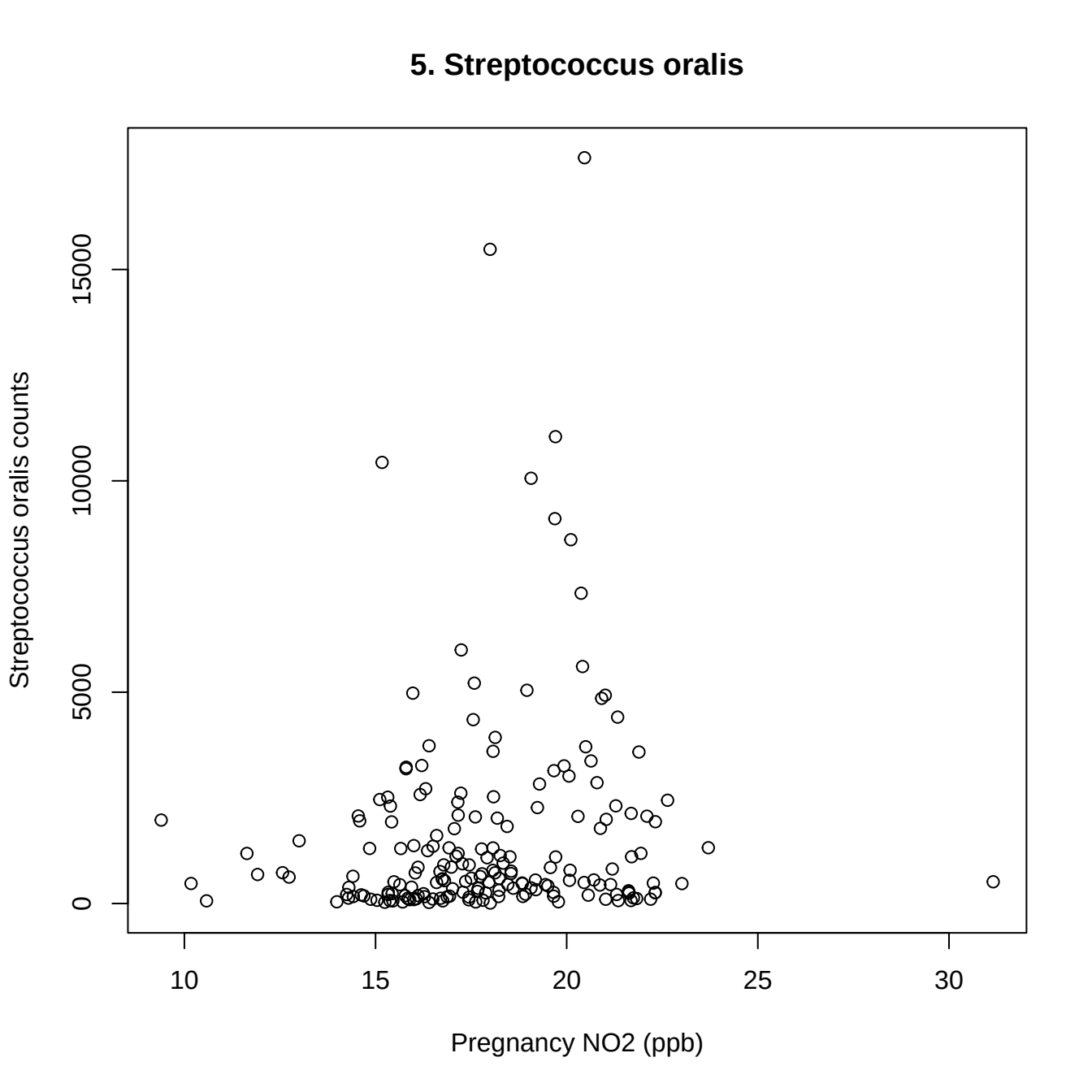
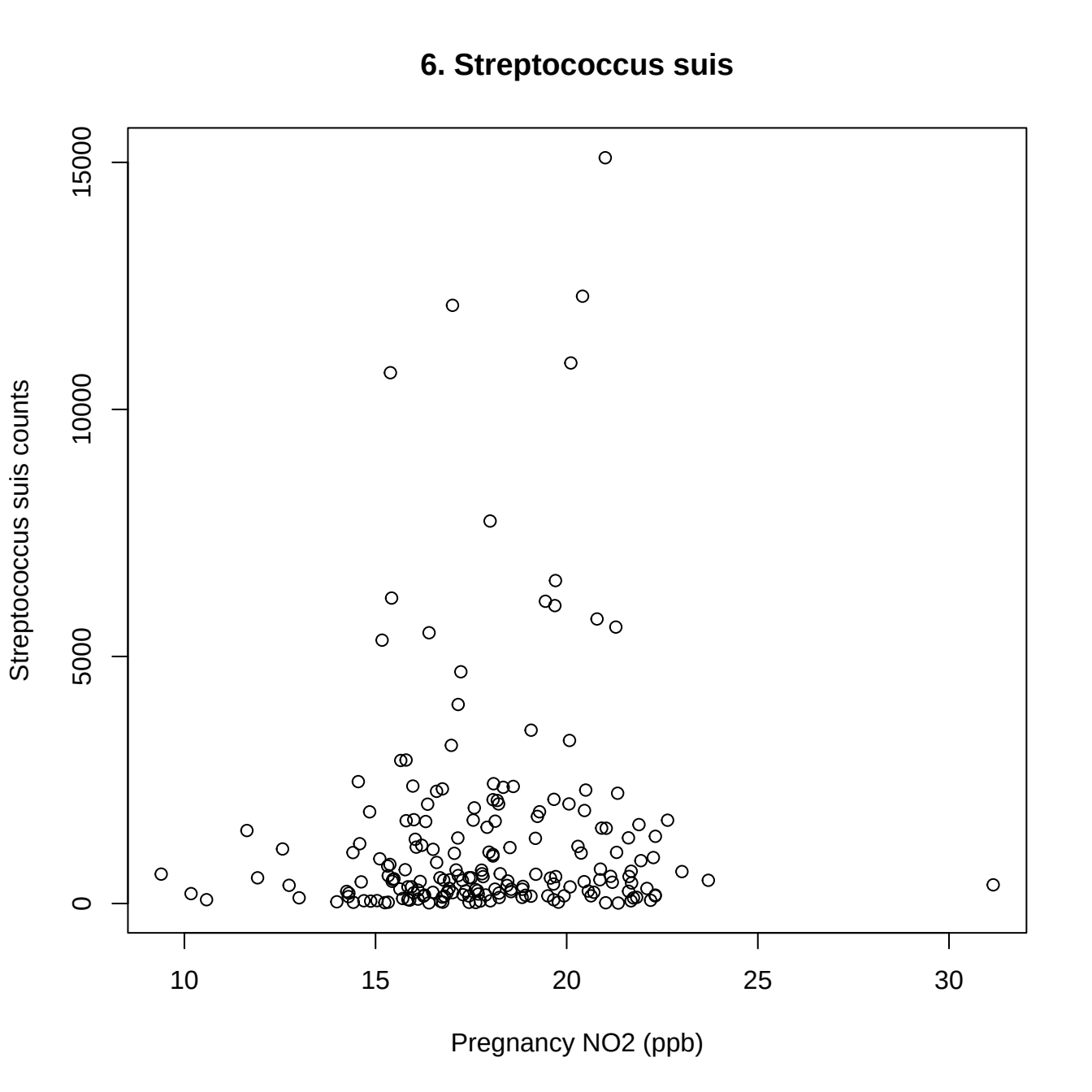
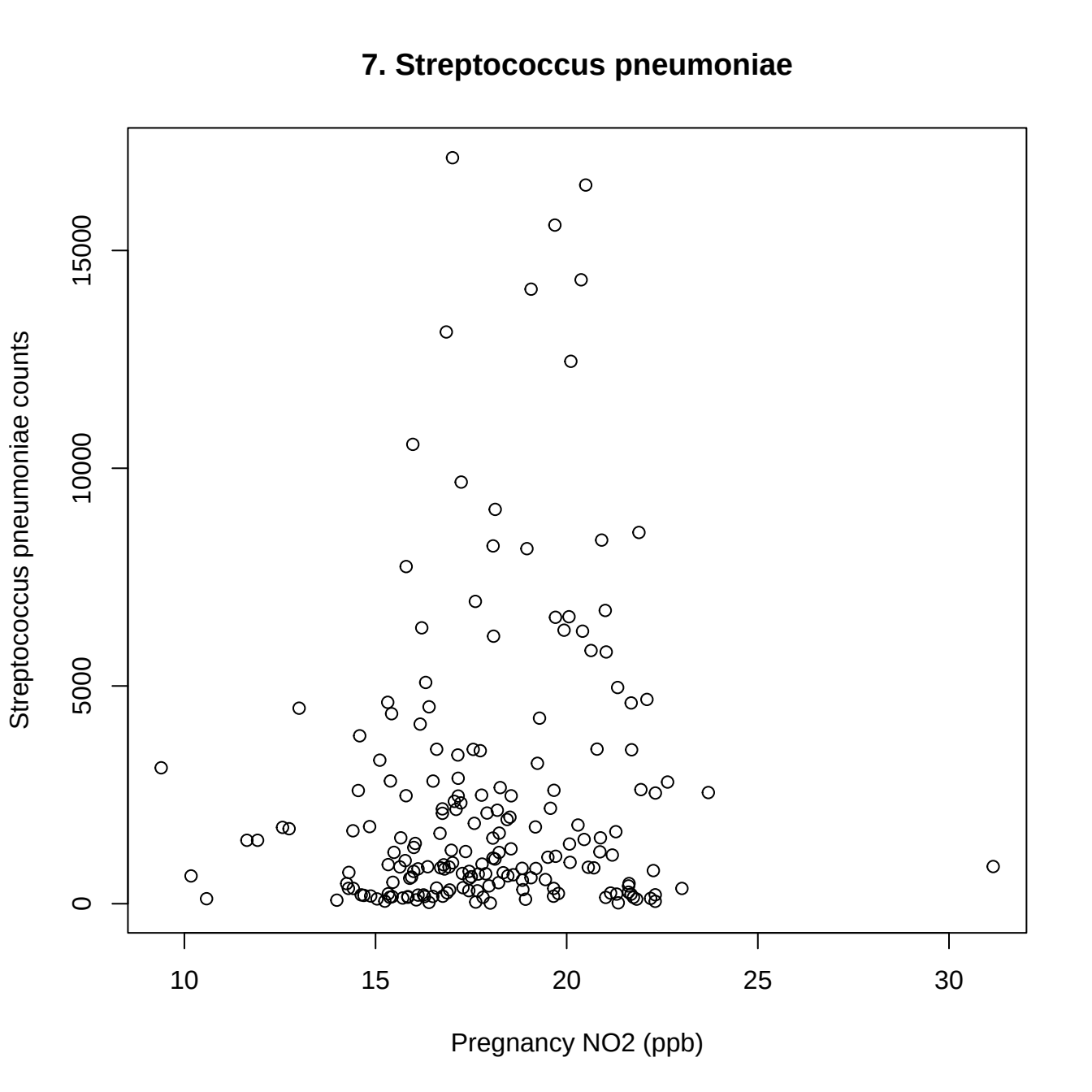
10
15
20
25
30
Pregnancy NO2 (ppb)

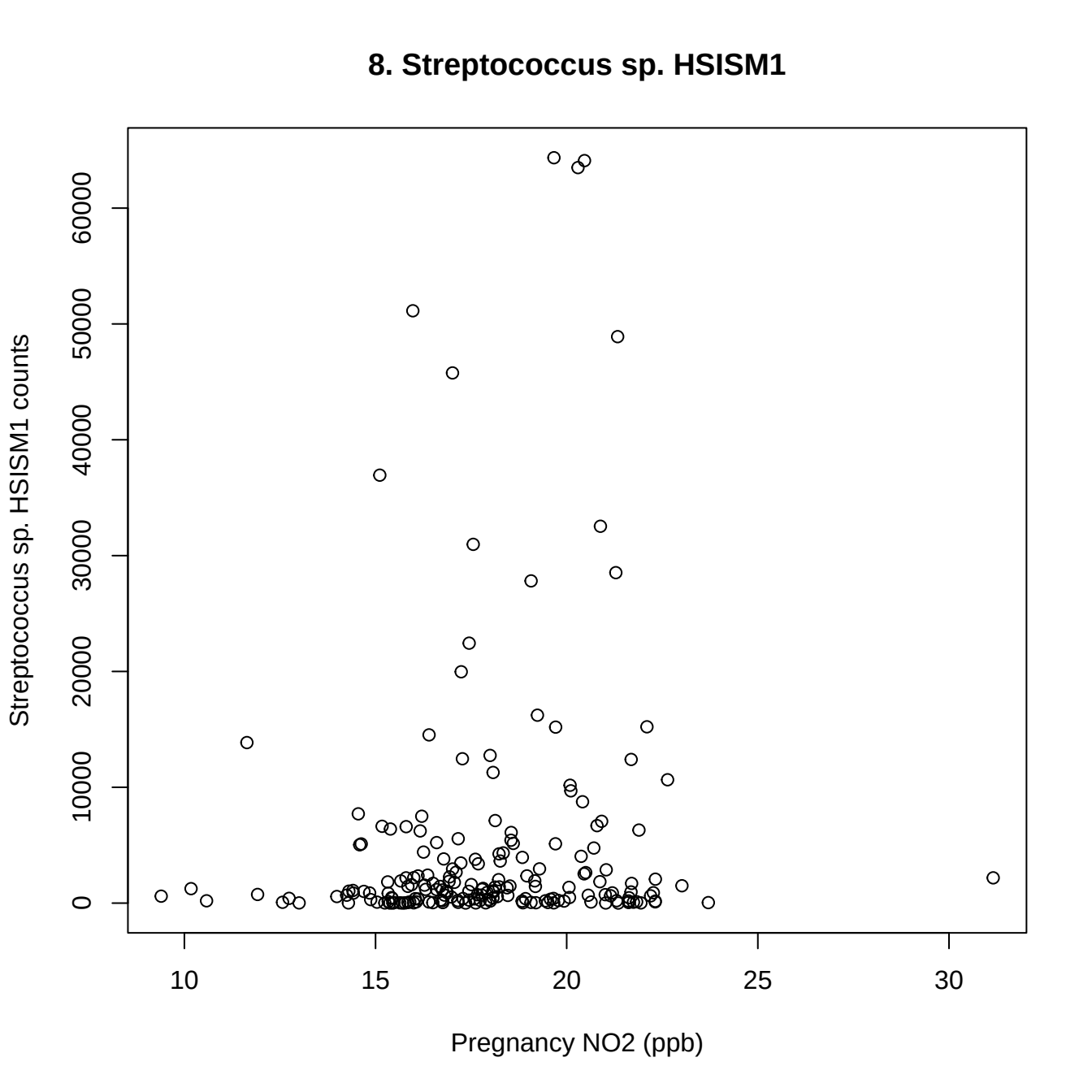

3. Streptococcus ilei
Streptococcus ilei counts
0
1000
2000
3000
4000
5000
10
15
20
25
30
Pregnancy NO2 (ppb)

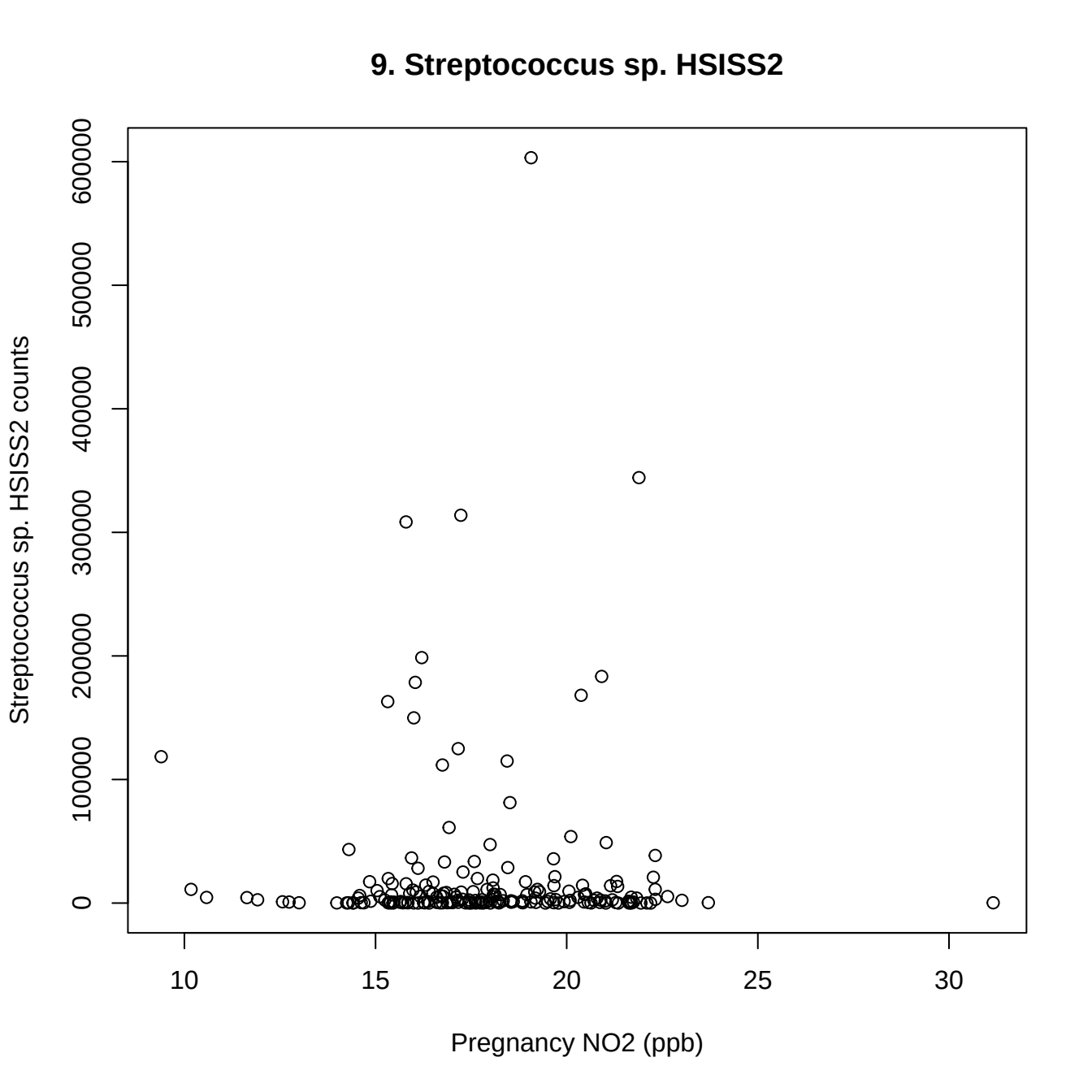

4. Streptococcus gordonii
Streptococcus gordonii counts
0
1000
2000
3000
4000
5000
10
15
20
25
30
Pregnancy NO2 (ppb)


5. Streptococcus oralis
Streptococcus oralis counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


6. Streptococcus suis
Streptococcus suis counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


7. Streptococcus pneumoniae
Streptococcus pneumoniae counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


8. Streptococcus sp. HSISM1
Streptococcus sp. HSISM1 counts
0
10000
20000
30000
40000
50000
60000
10
15
20
25
30
Pregnancy NO2 (ppb)


9. Streptococcus sp. HSISS2
Streptococcus sp. HSISS2 counts
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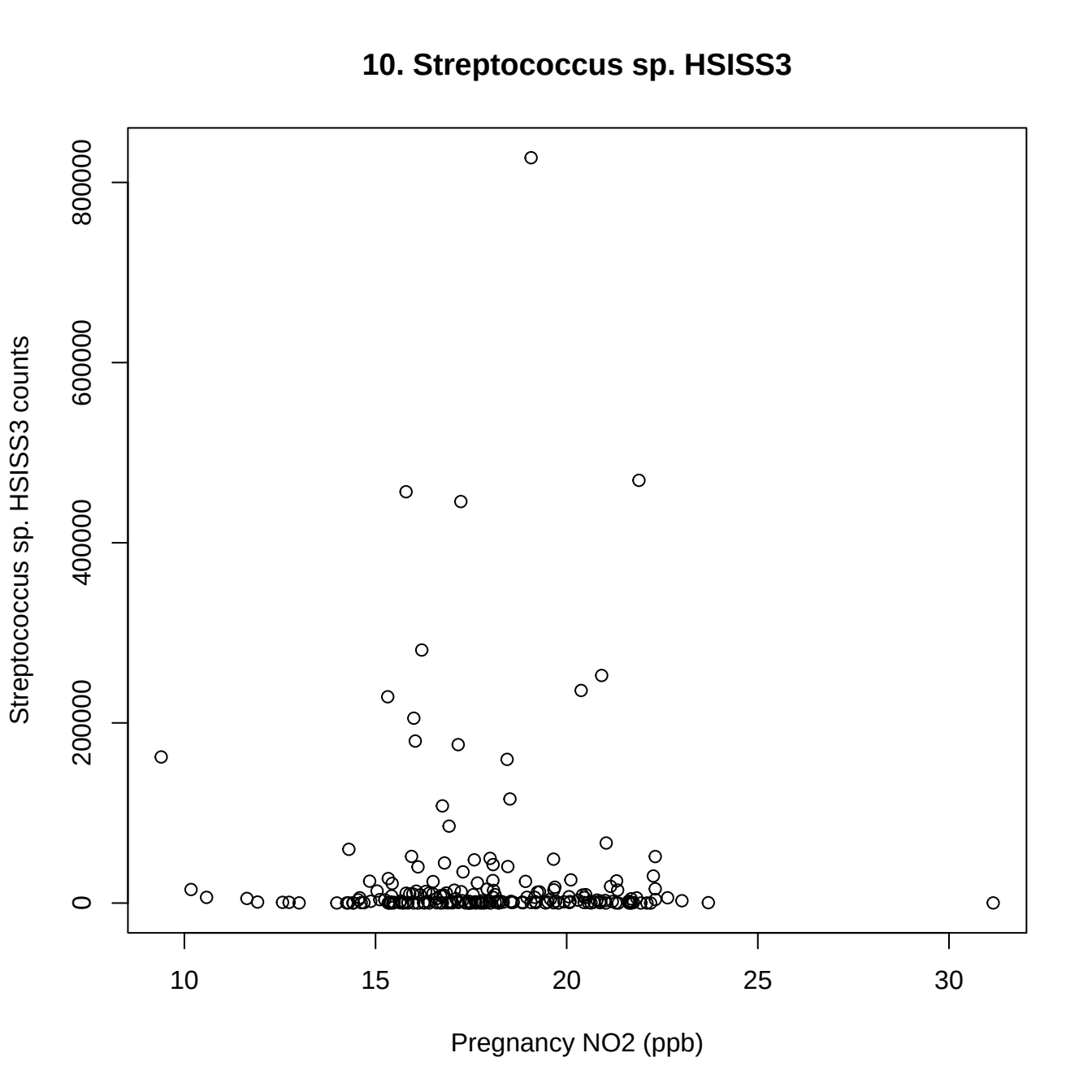
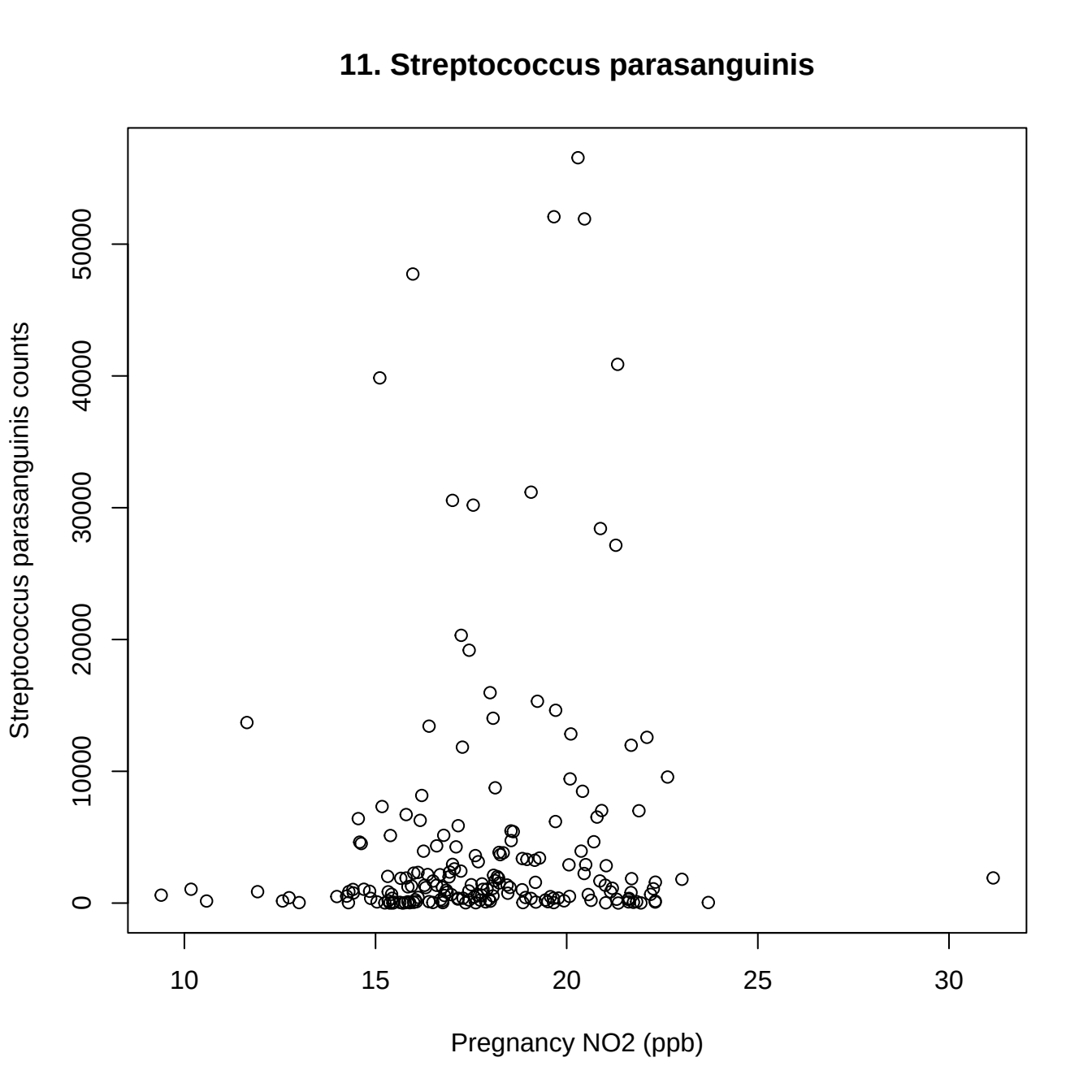
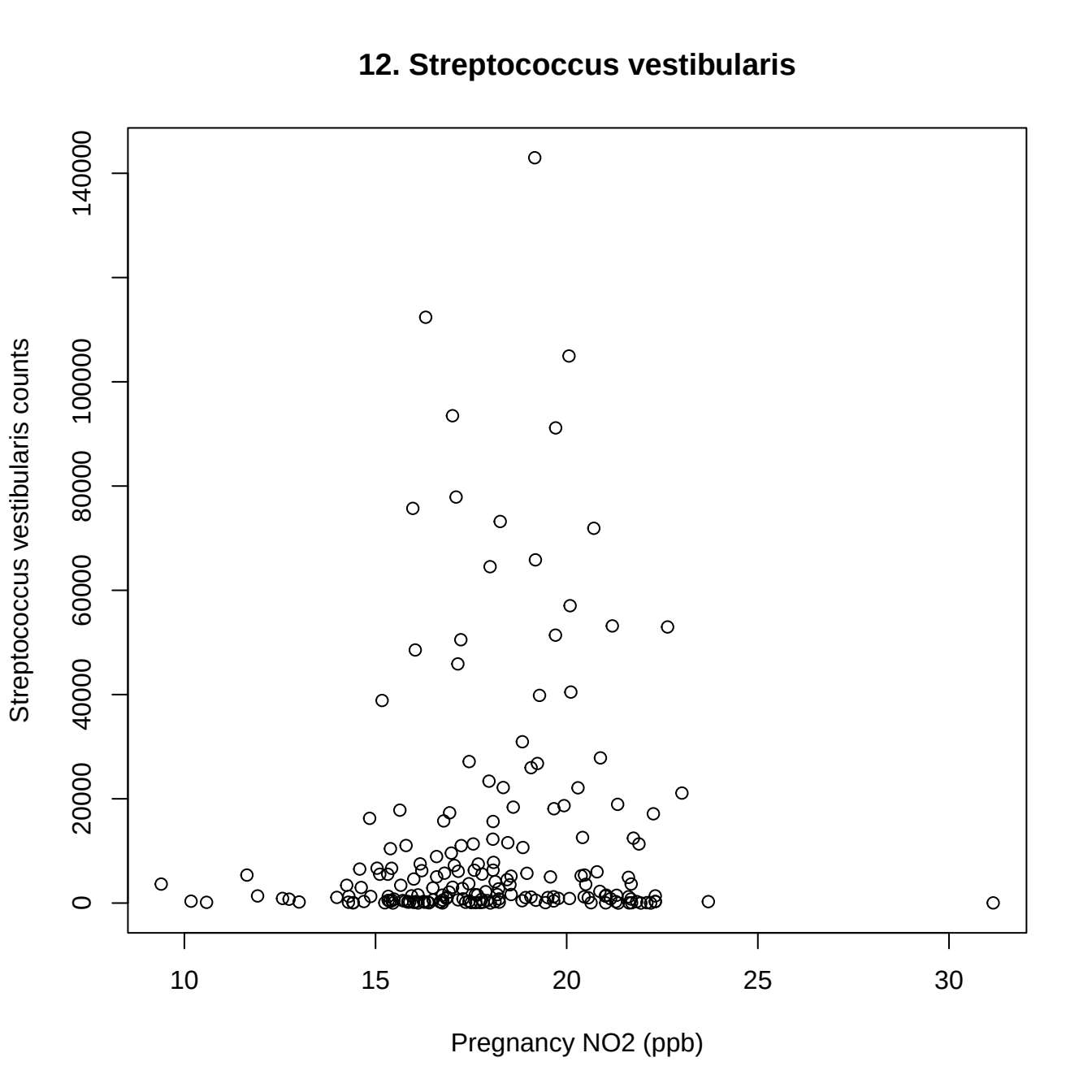
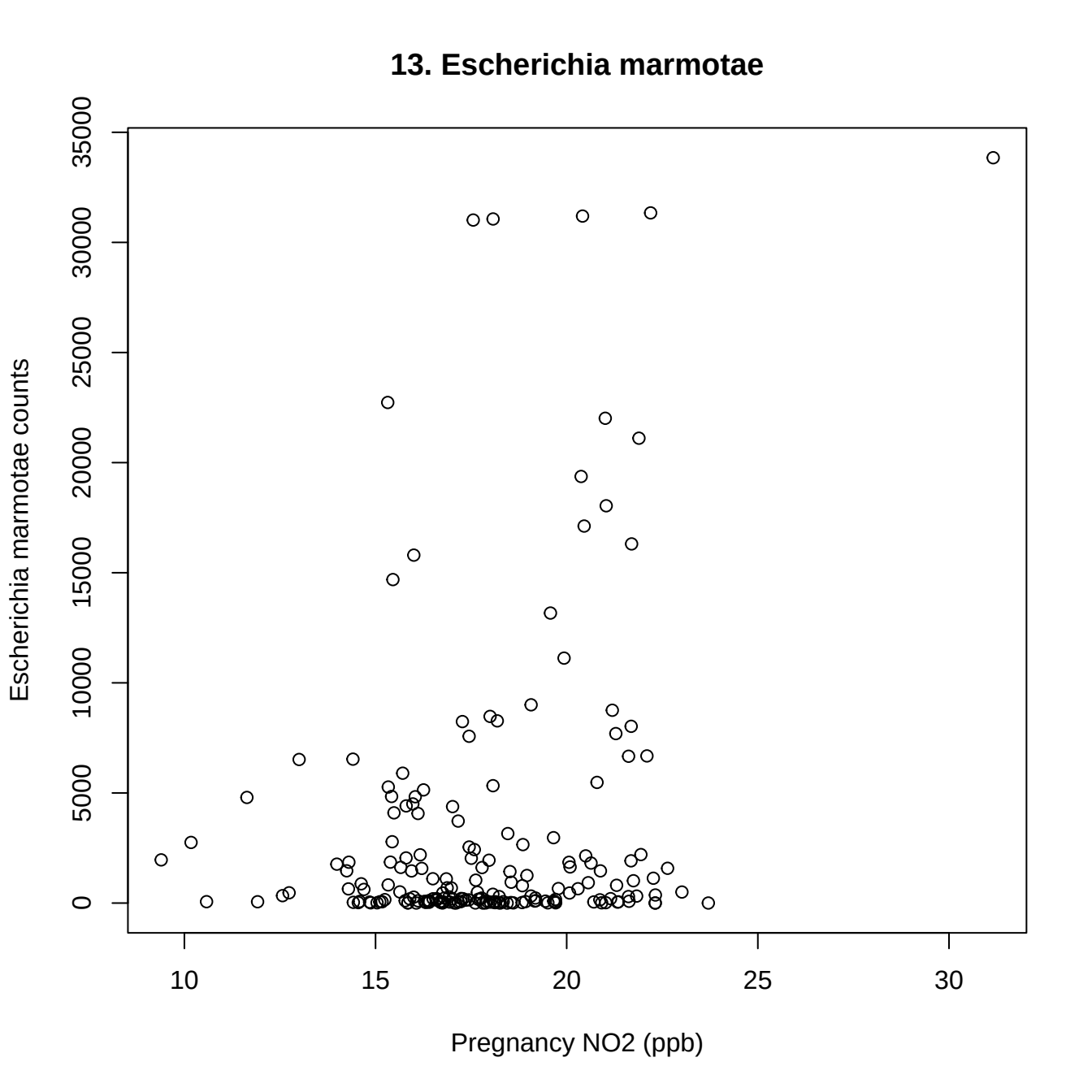
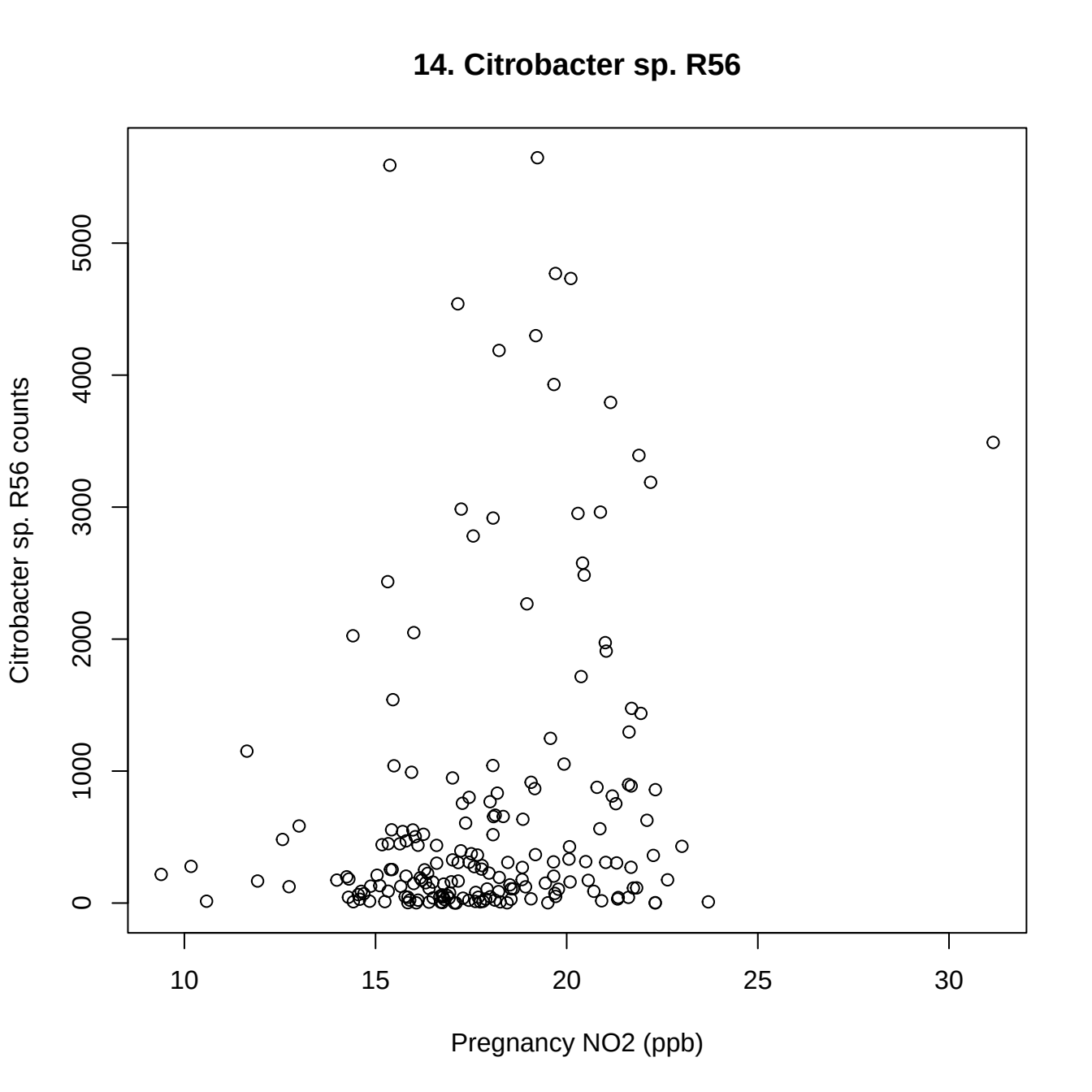
100000
200000
300000
400000
500000
600000
10
15
20
25
30
Pregnancy NO2 (ppb)

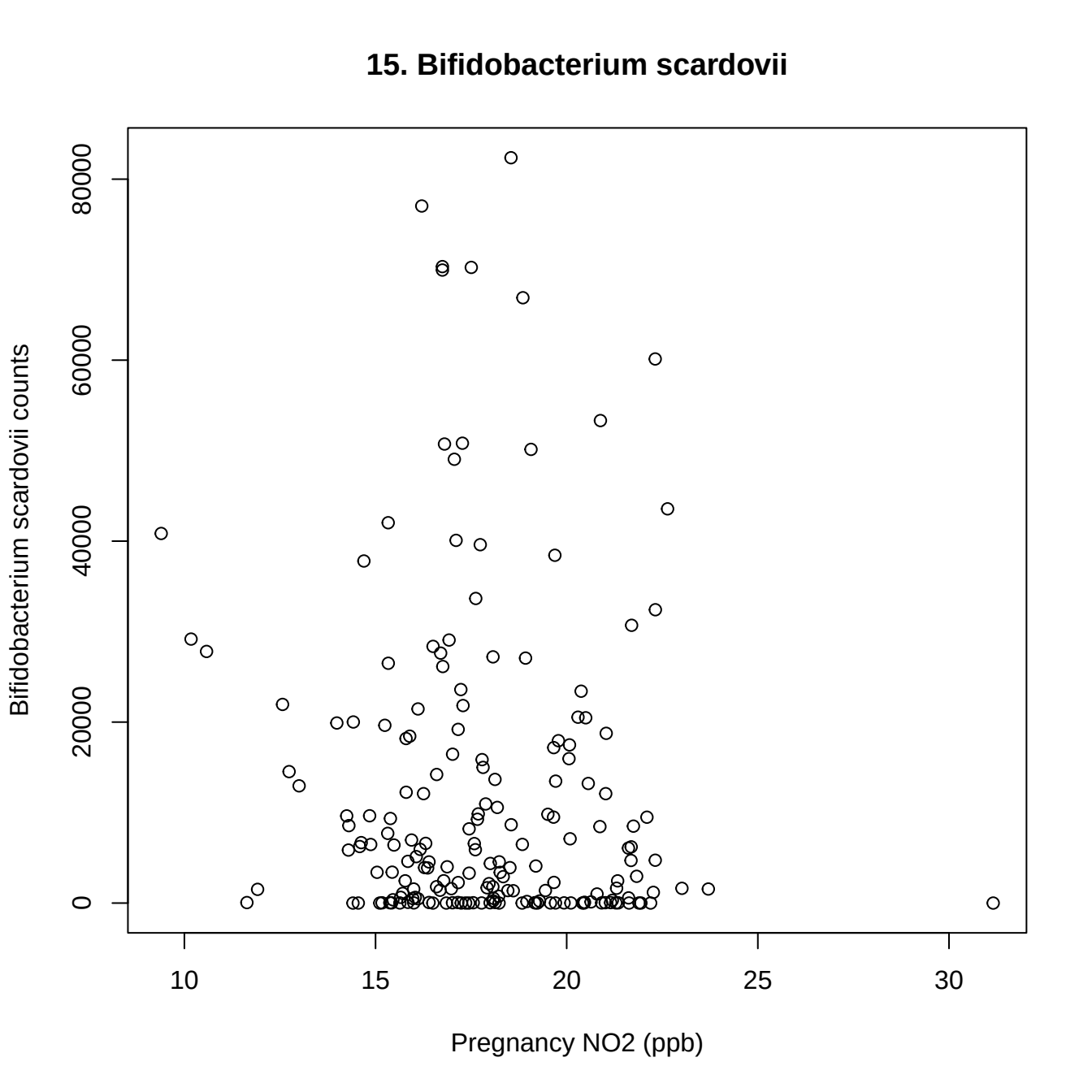

10. Streptococcus sp. HSISS3
Streptococcus sp. HSISS3 counts
0
200000
400000
600000
800000
10
15
20
25
30
Pregnancy NO2 (ppb)

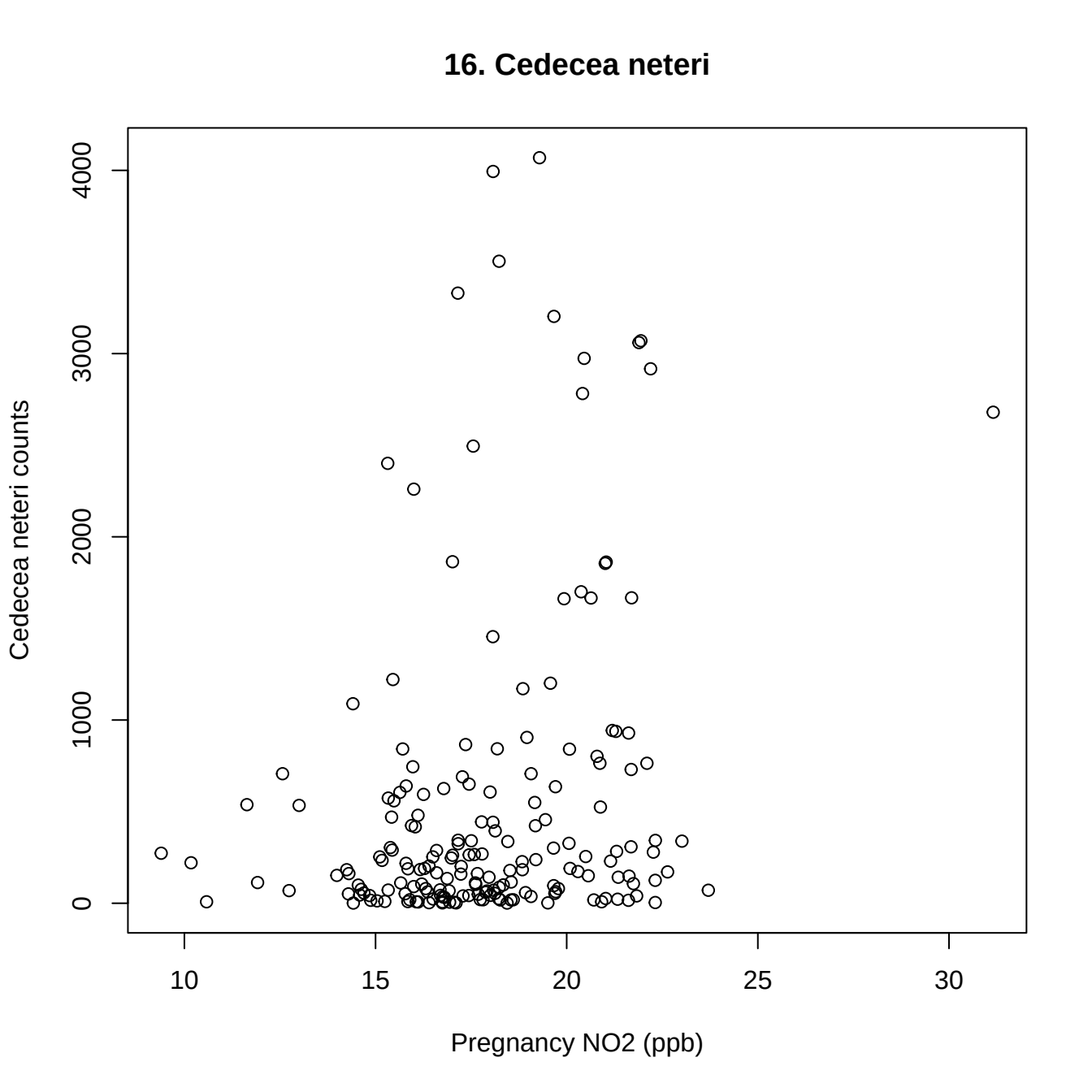

11. Streptococcus parasanguinis
Streptococcus parasanguinis counts
0
10000
20000
30000
40000
50000
10
15
20
25
30
Pregnancy NO2 (ppb)


12. Streptococcus vestibularis
Streptococcus vestibularis counts
0
20000
40000
60000
80000
100000
140000
10
15
20
25
30
Pregnancy NO2 (ppb)

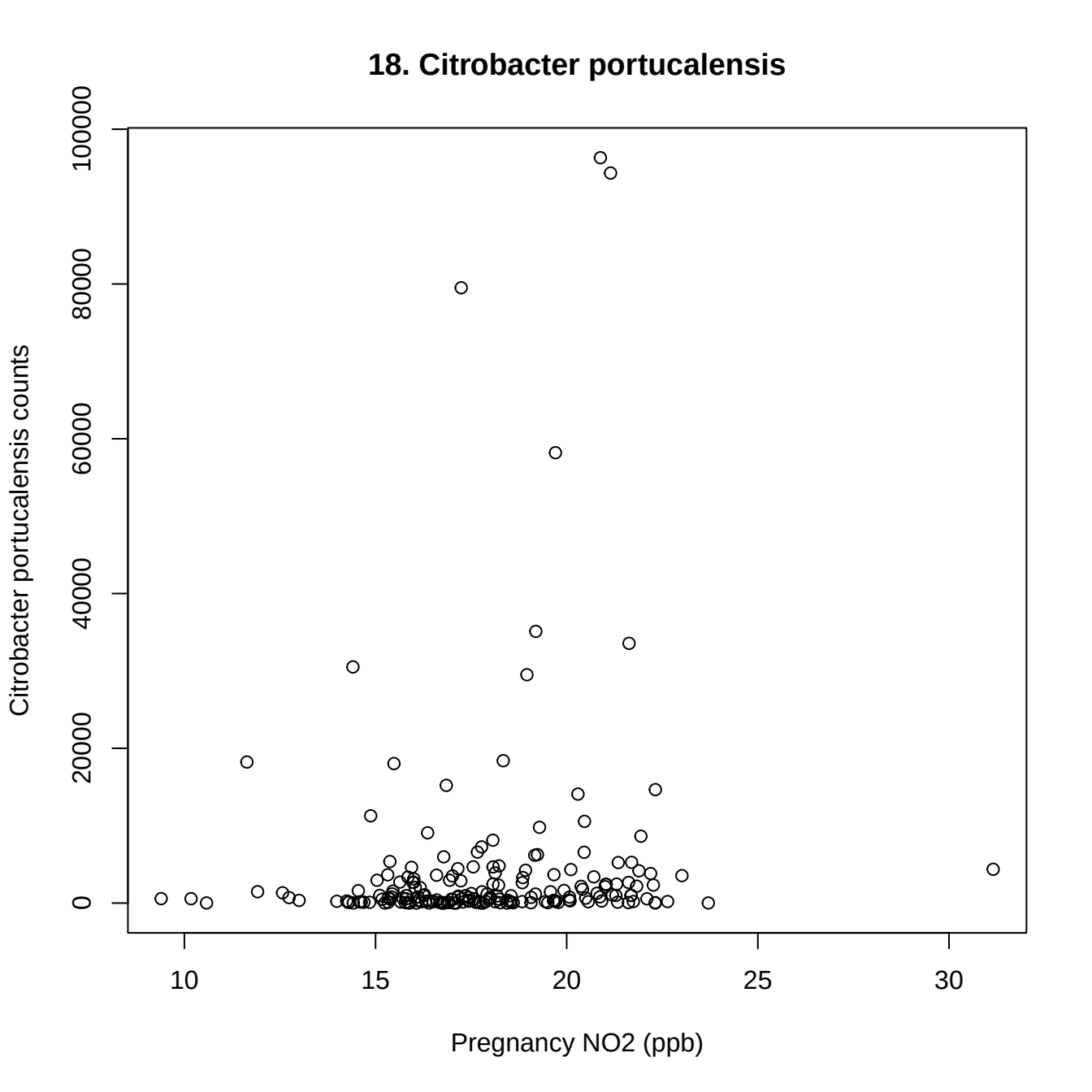

13. Escherichia marmotae
Escherichia marmotae counts
0
5000
10000
15000
20000
25000
30000
35000
10
15
20
25
30
Pregnancy NO2 (ppb)

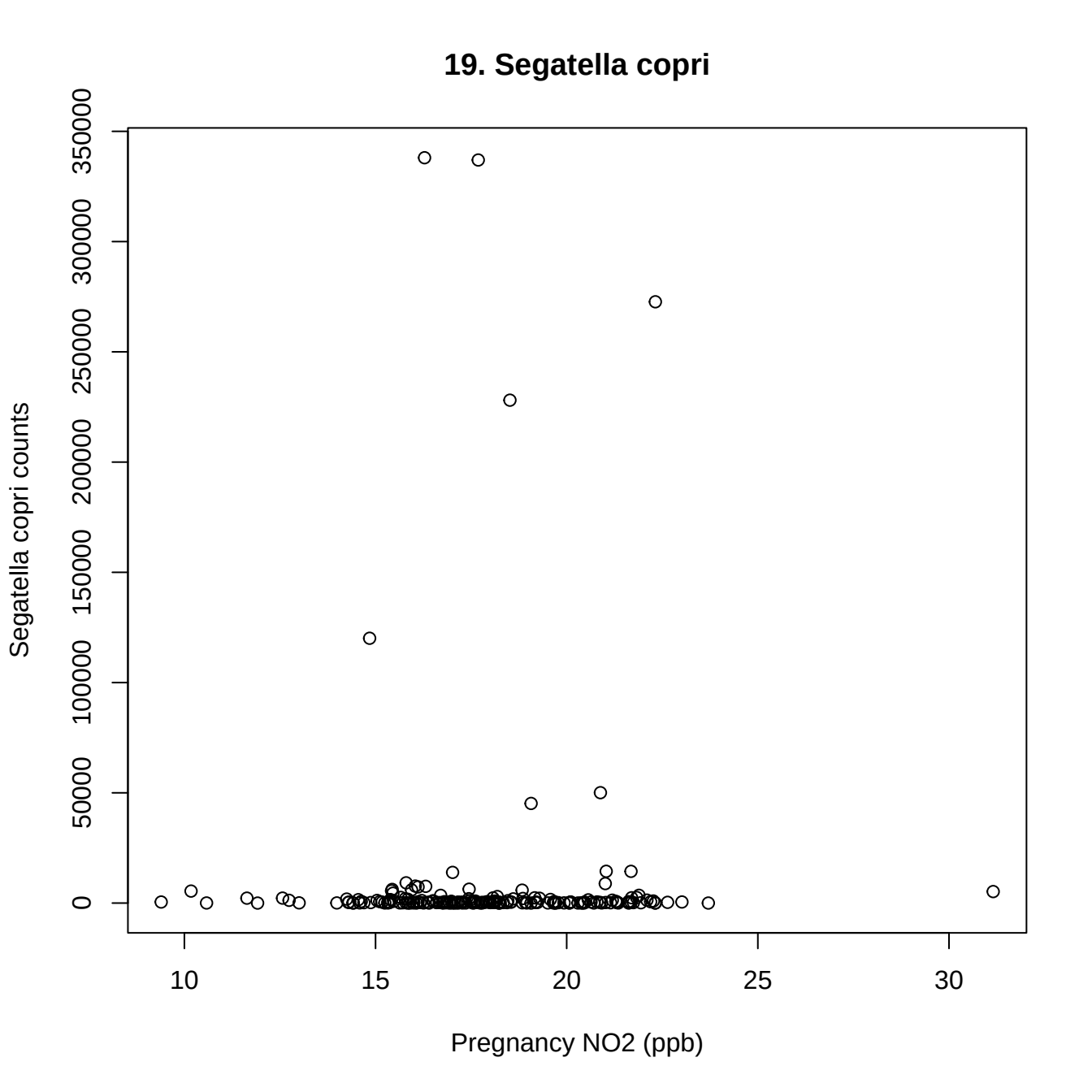

14. Citrobacter sp. R56
Citrobacter sp. R56 counts
0
1000
2000
3000
4000
5000
10
15
20
25
30
Pregnancy NO2 (ppb)


15. Bifidobacterium scardovii
Bifidobacterium scardovii counts
0
20000
40000
60000
80000
10
15
20
25
30
Pregnancy NO2 (ppb)


16. Cedecea neteri
Cedecea neteri counts
0
1000
2000
3000
4000
10
15
20
25
30
Pregnancy NO2 (ppb)


17. Bifidobacterium lemurum
Bifidobacterium lemurum counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


18. Citrobacter portucalensis
Citrobacter portucalensis counts
0
20000
40000
60000
80000
100000
10
15
20
25
30
Pregnancy NO2 (ppb)


19. Segatella copri
Segatella copri counts
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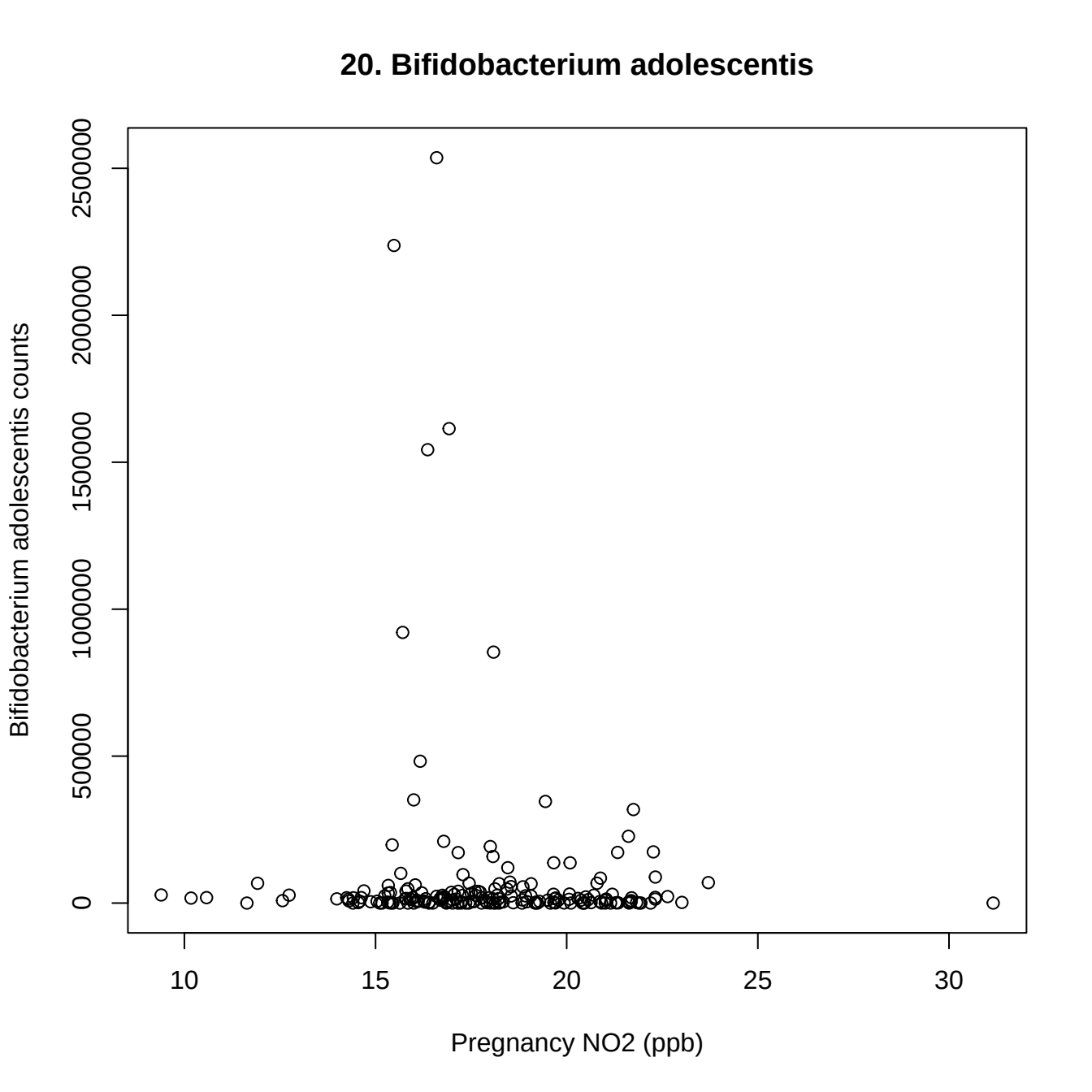
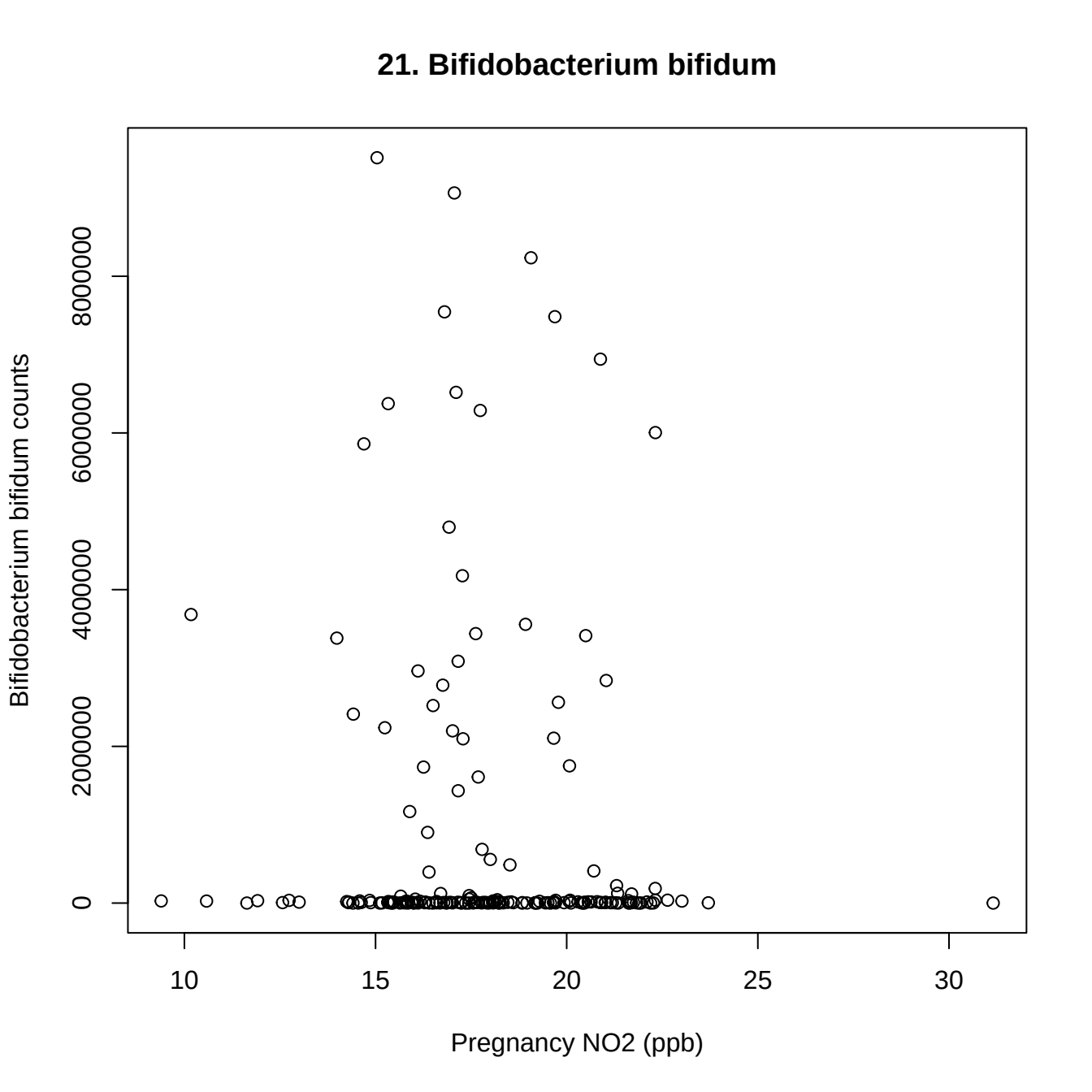
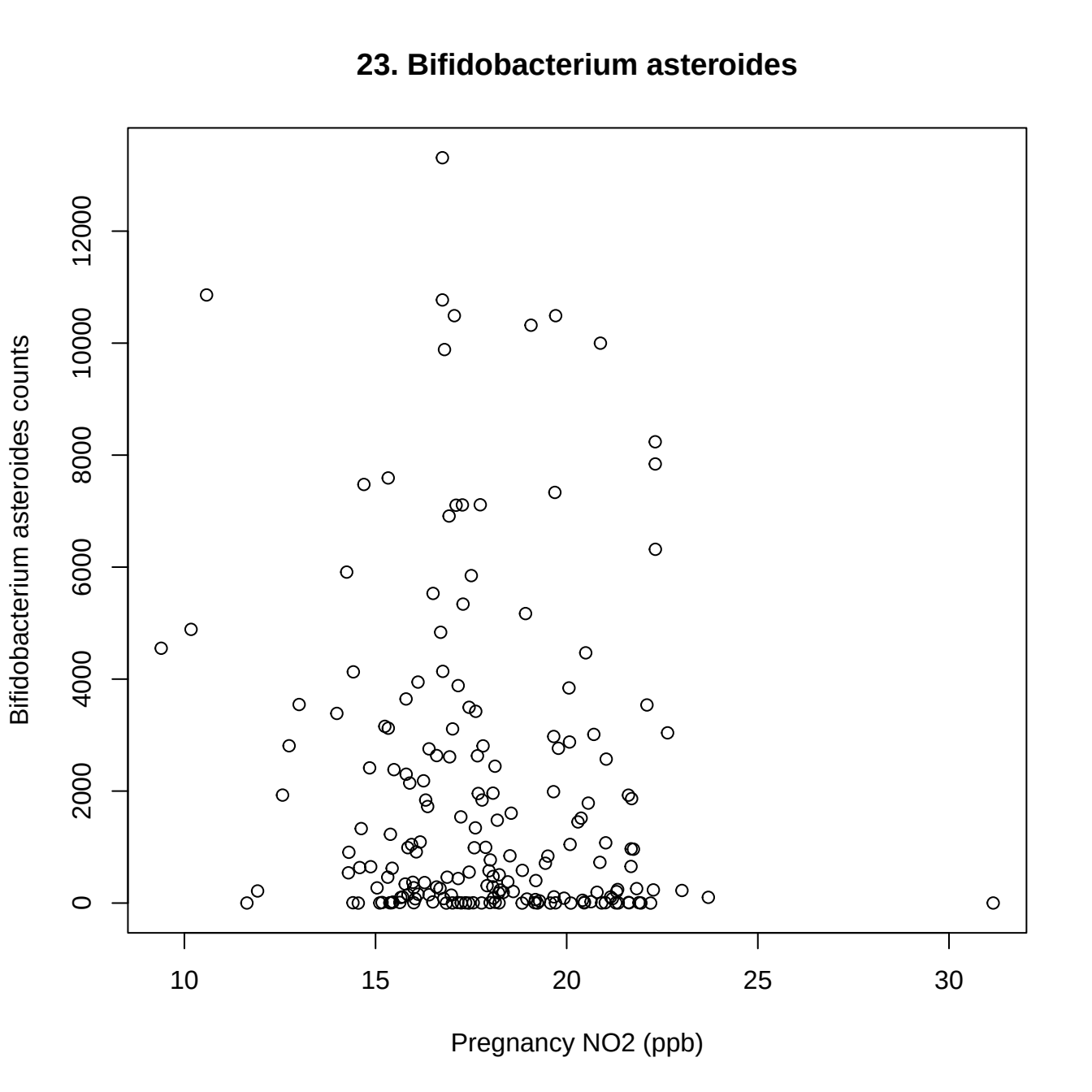
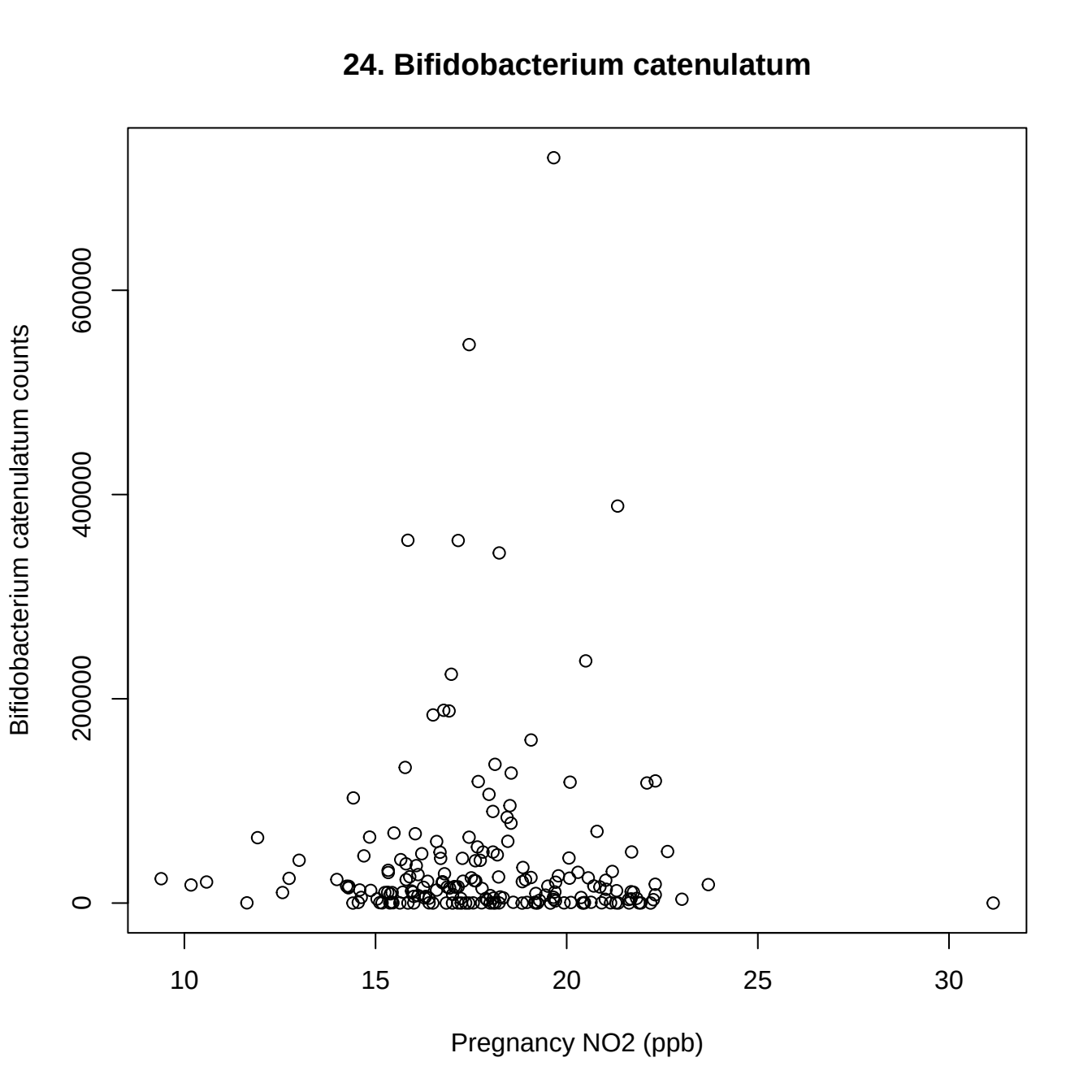
50000
100000
150000
200000
250000
300000
350000
10
15
20
25
30
Pregnancy NO2 (ppb)

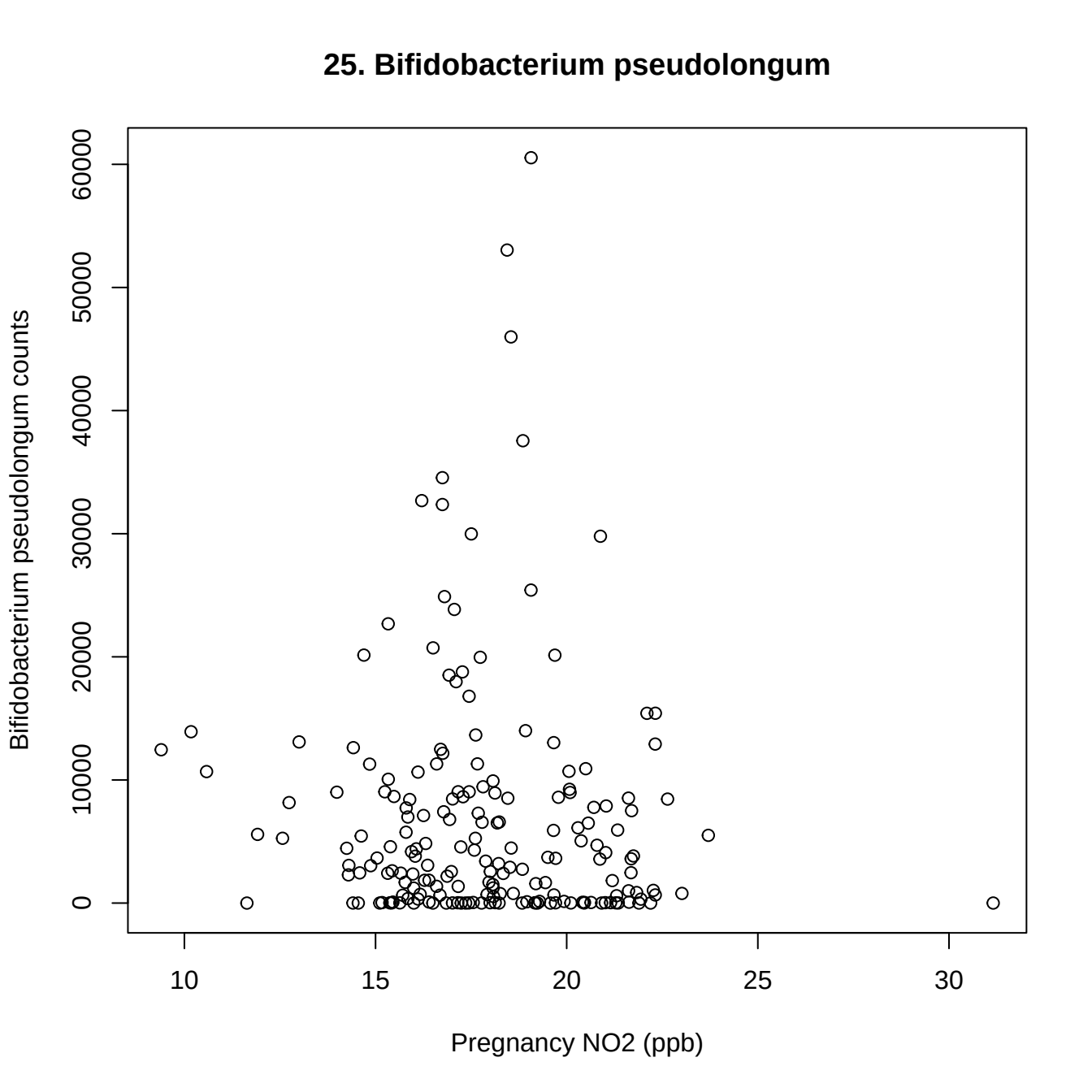

20. Bifidobacterium adolescentis
Bifidobacterium adolescentis counts
0
500000
1000000
1500000
2000000
2500000
10
15
20
25
30
Pregnancy NO2 (ppb)

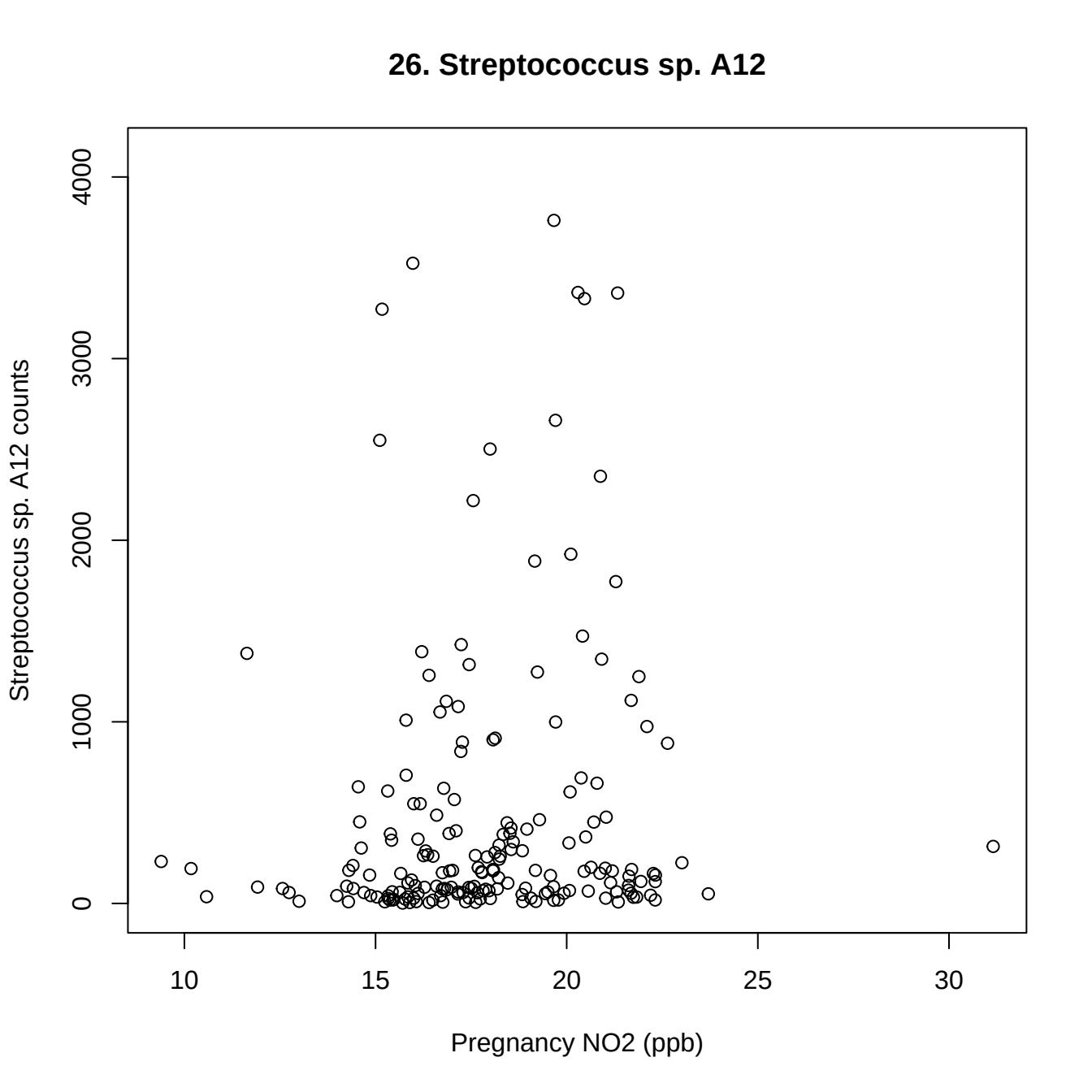

21. Bifidobacterium bifidum
Bifidobacterium bifidum counts
0
2000000
4000000
6000000
8000000
10
15
20
25
30
Pregnancy NO2 (ppb)

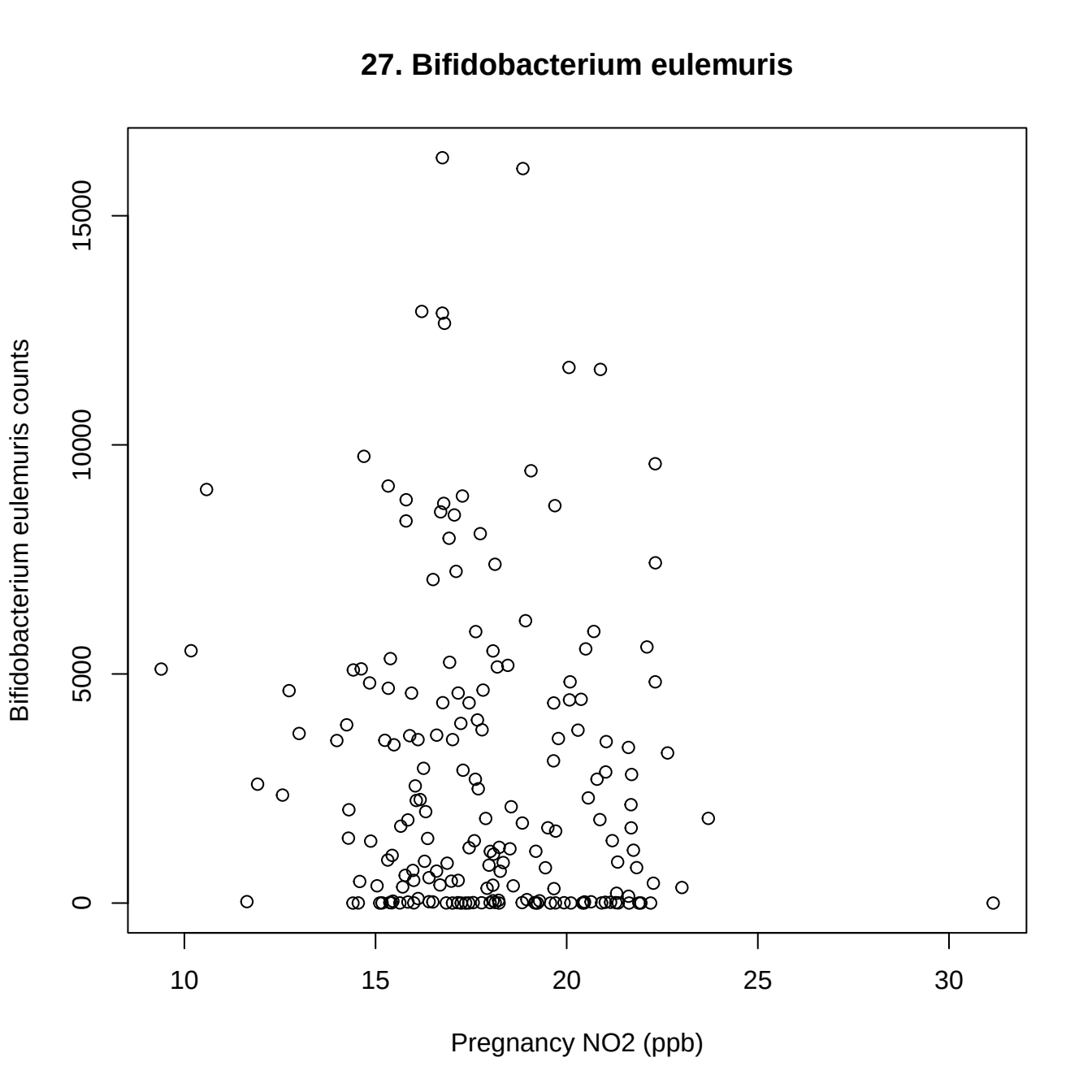

22. Bifidobacterium angulatum
Bifidobacterium angulatum counts
0
20000
40000
60000
80000
10
15
20
25
30
Pregnancy NO2 (ppb)

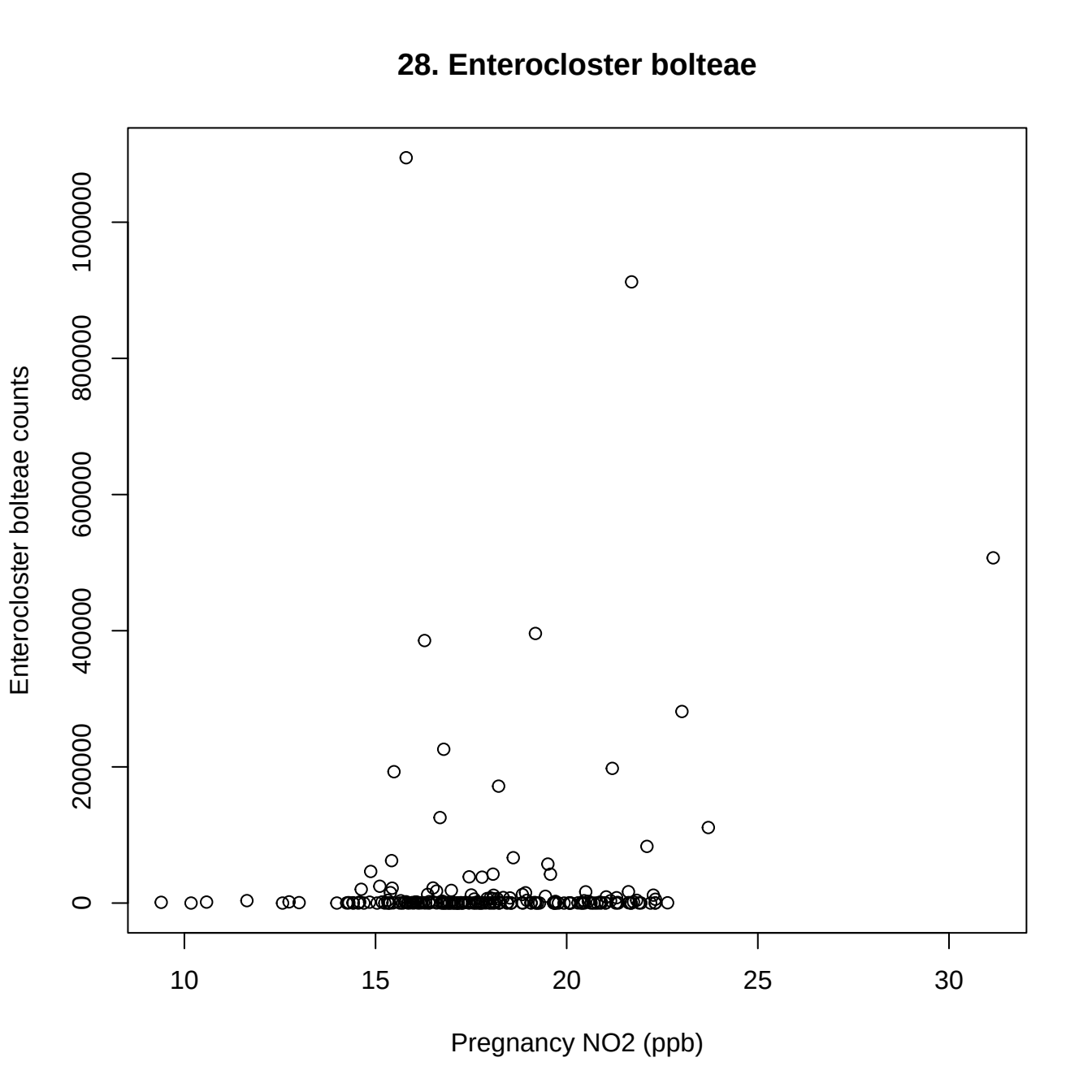

23. Bifidobacterium asteroides
Bifidobacterium asteroides counts
0
2000
4000
6000
8000
10000
12000
10
15
20
25
30
Pregnancy NO2 (ppb)

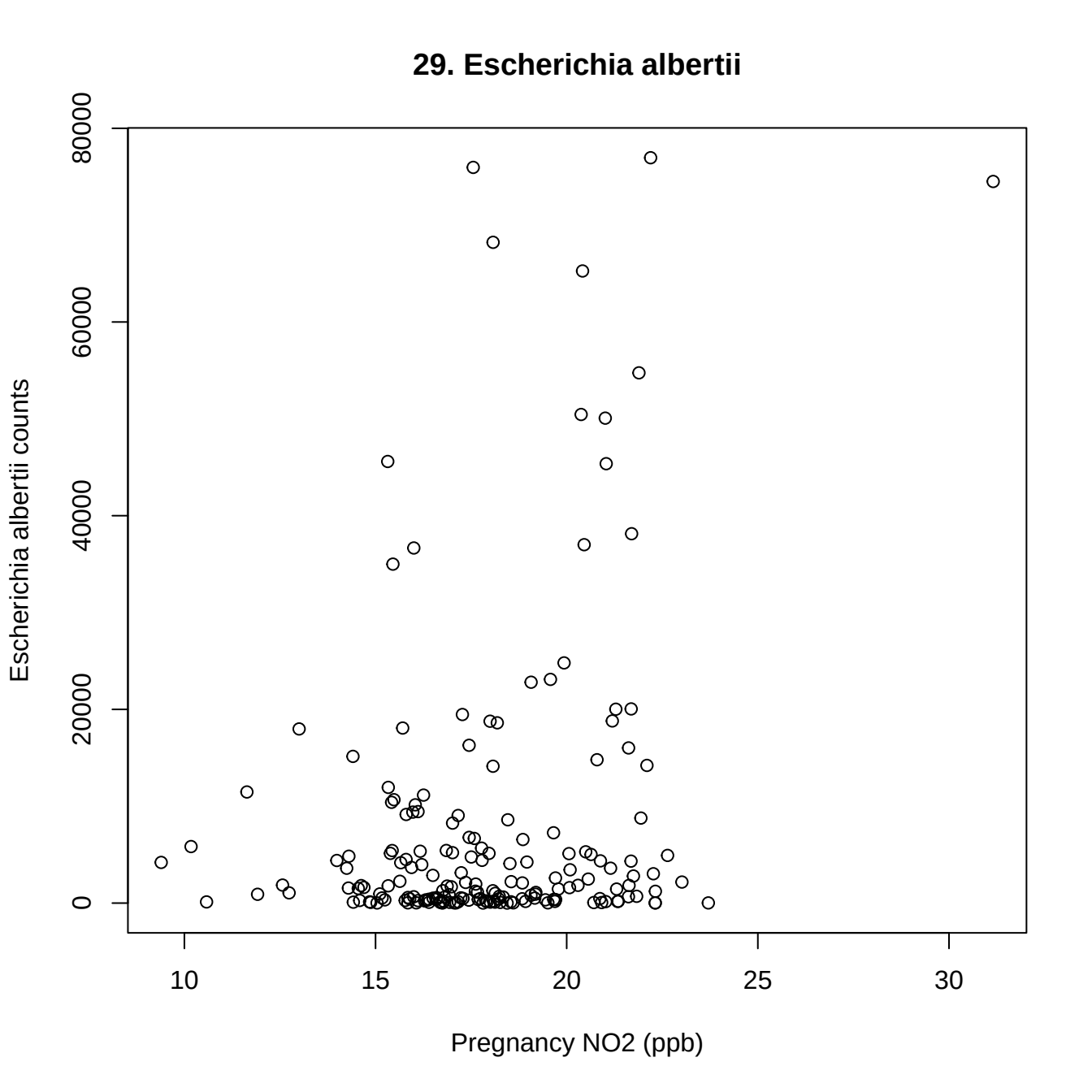

24. Bifidobacterium catenulatum
Bifidobacterium catenulatum counts
0
200000
400000
600000
10
15
20
25
30
Pregnancy NO2 (ppb)


25. Bifidobacterium pseudolongum
Bifidobacterium pseudolongum counts
0
10000
20000
30000
40000
50000
60000
10
15
20
25
30
Pregnancy NO2 (ppb)


26. Streptococcus sp. A12
Streptococcus sp. A12 counts
0
1000
2000
3000
4000
10
15
20
25
30
Pregnancy NO2 (ppb)


27. Bifidobacterium eulemuris
Bifidobacterium eulemuris counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


28. Enterocloster bolteae
Enterocloster bolteae counts
0
200000
400000
600000
800000
1000000
10
15
20
25
30
Pregnancy NO2 (ppb)


29. Escherichia albertii
Escherichia albertii counts
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20000
40000
60000
80000
10
15
20
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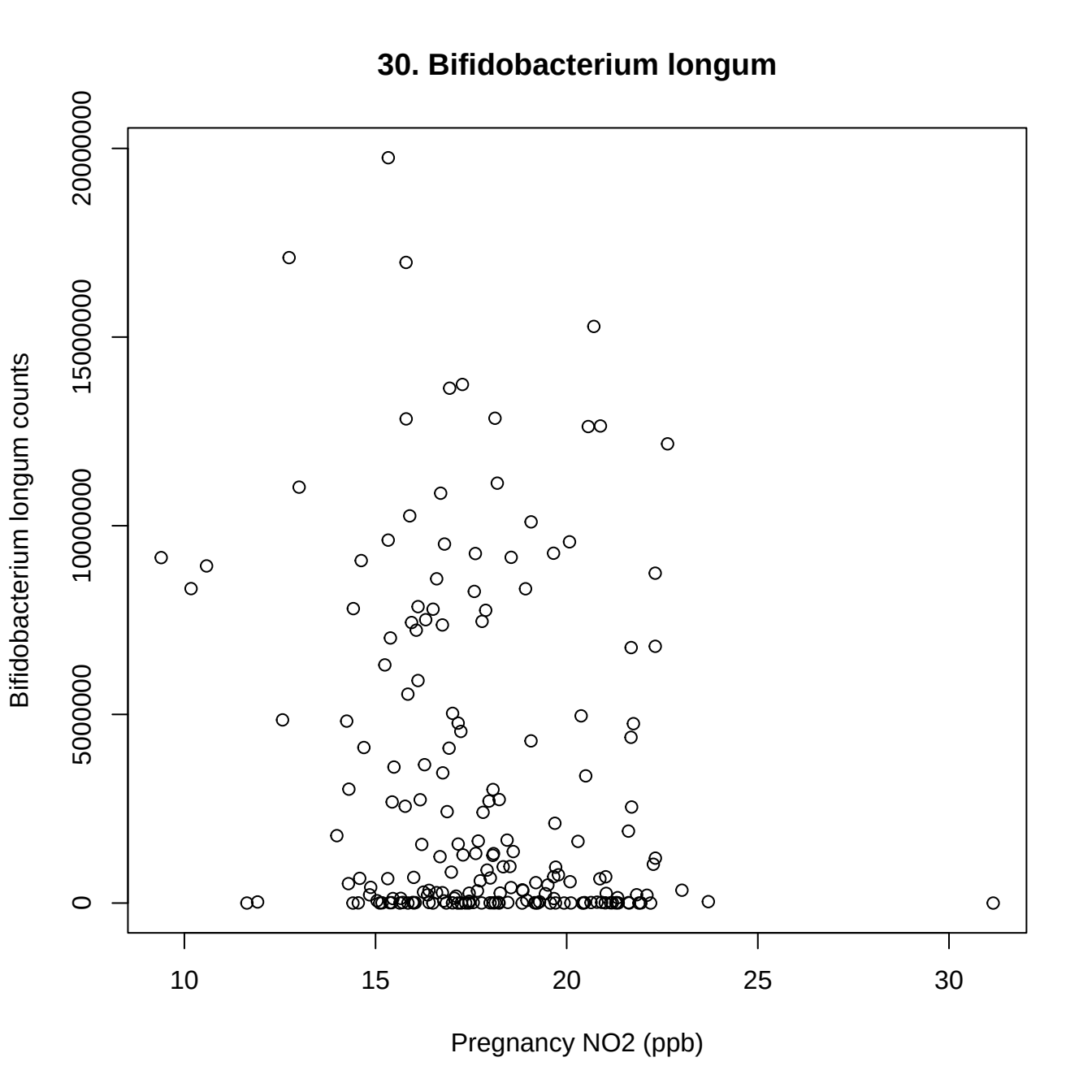
30
Pregnancy NO2 (ppb)


30. Bifidobacterium longum
Bifidobacterium longum counts
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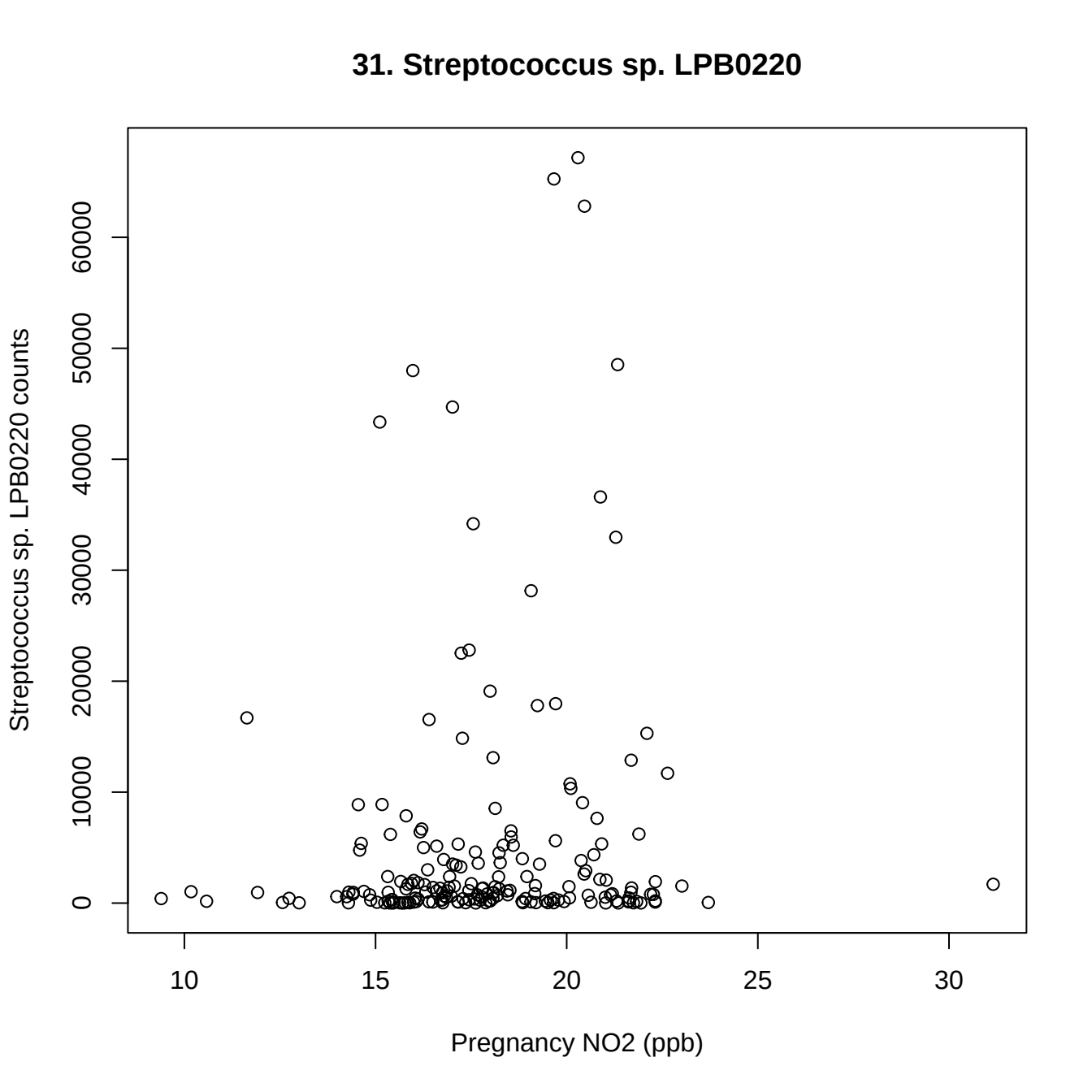
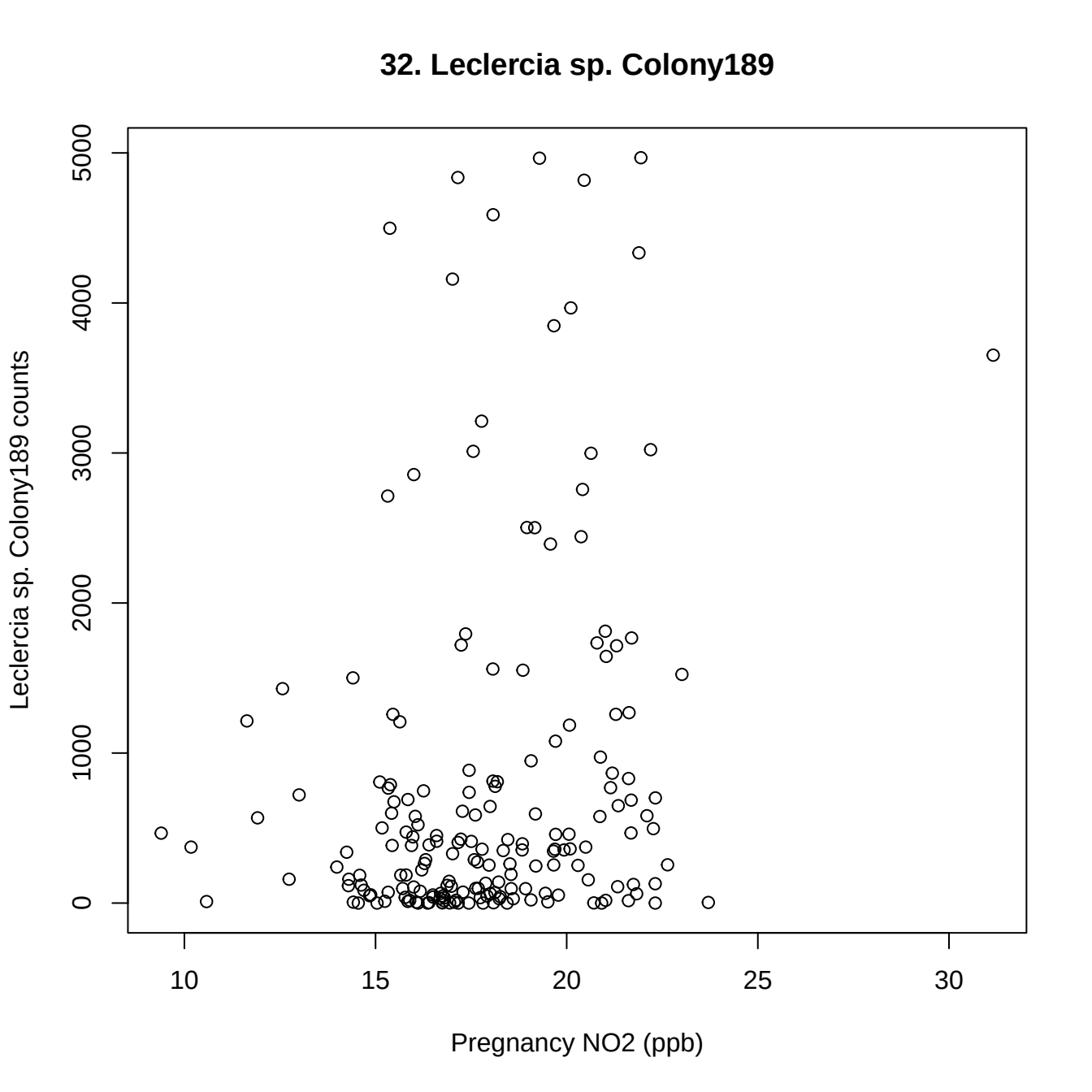
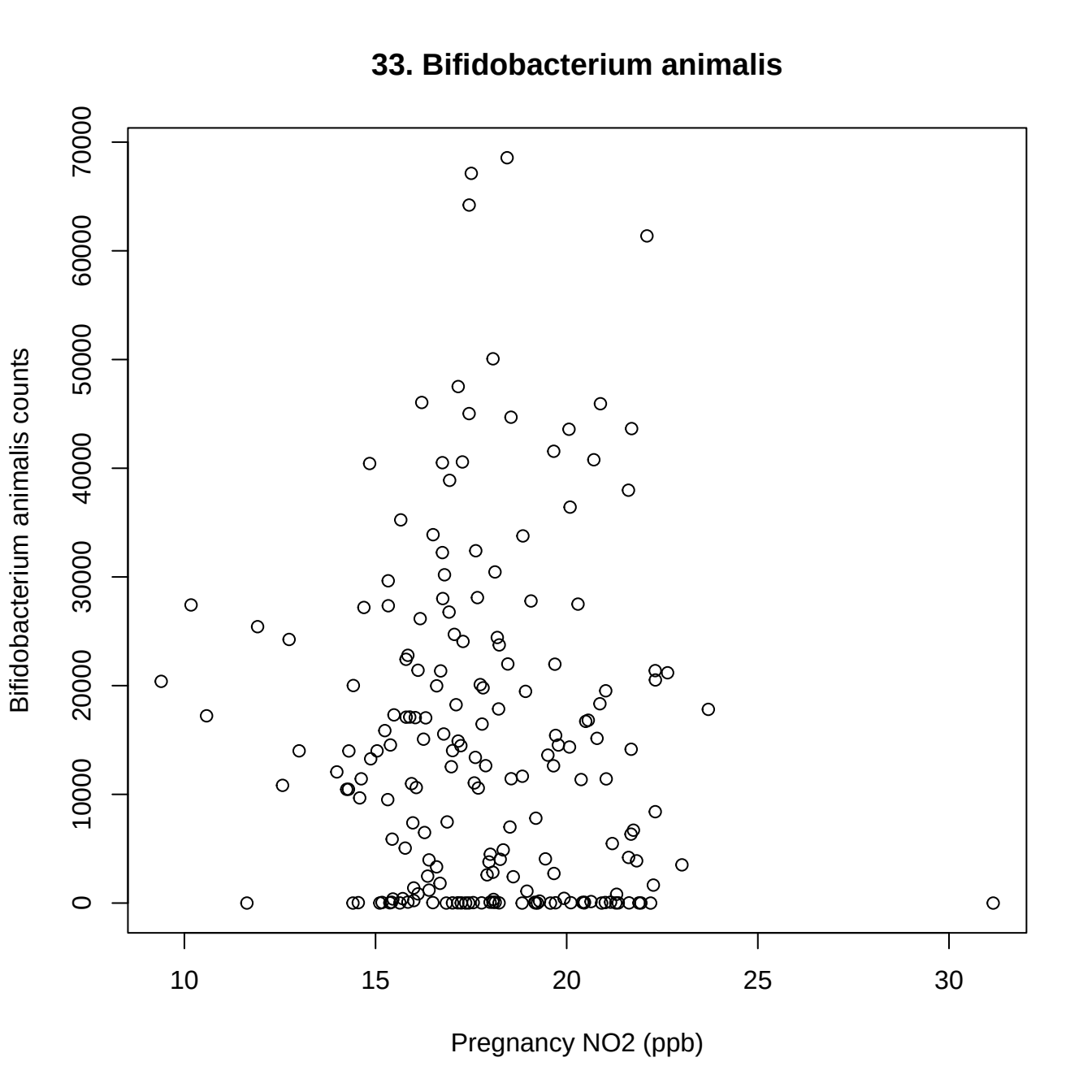
15000000
20000000
10
15
20
25
30
Pregnancy NO2 (ppb)


31. Streptococcus sp. LPB0220
Streptococcus sp. LPB0220 counts
0
10000
20000
30000
40000
50000
60000
10
15
20
25
30
Pregnancy NO2 (ppb)


32. Leclercia sp. Colony189
Leclercia sp. Colony189 counts
0
1000
2000
3000
4000
5000
10
15
20
25
30
Pregnancy NO2 (ppb)


33. Bifidobacterium animalis
Bifidobacterium animalis counts
0
10000
20000
30000
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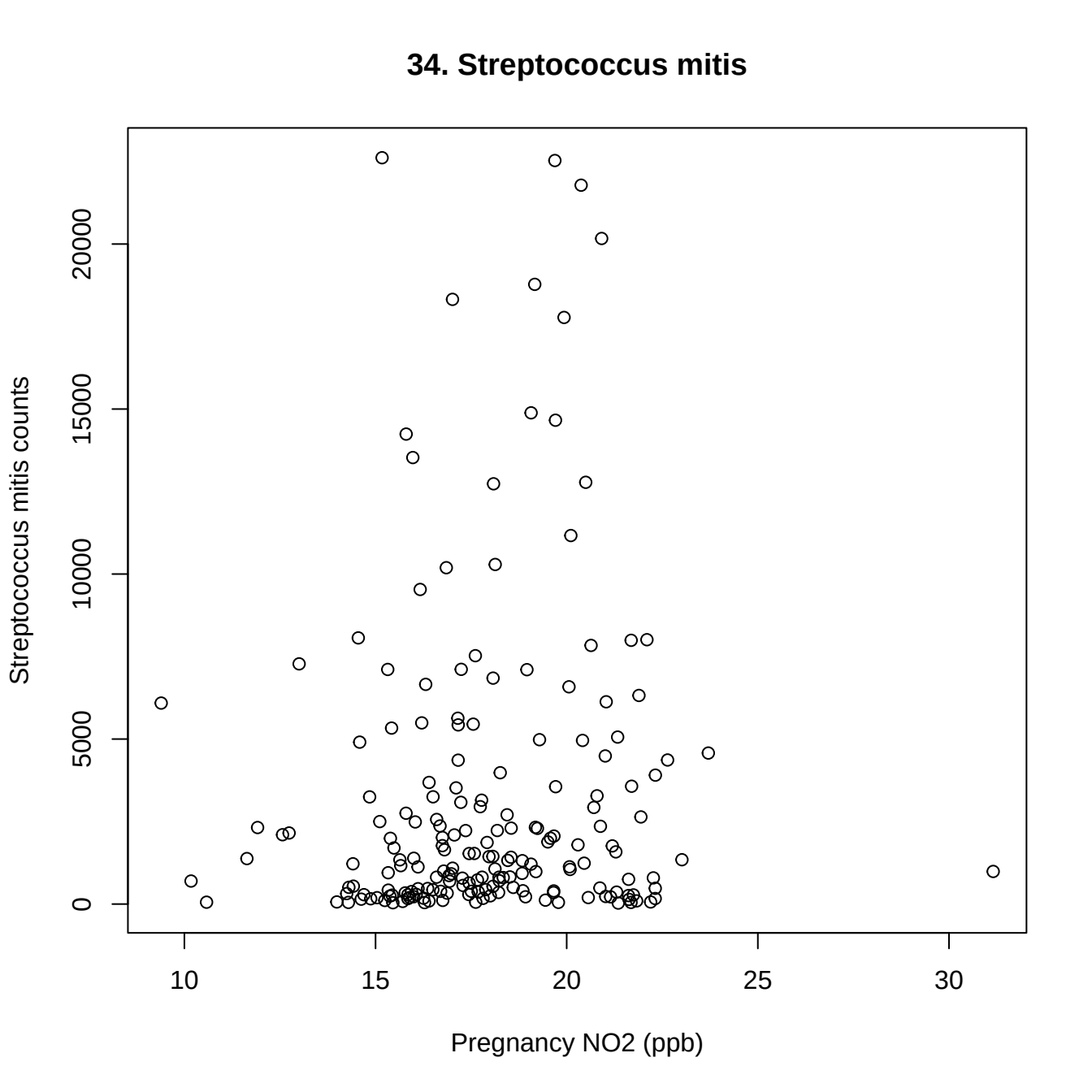
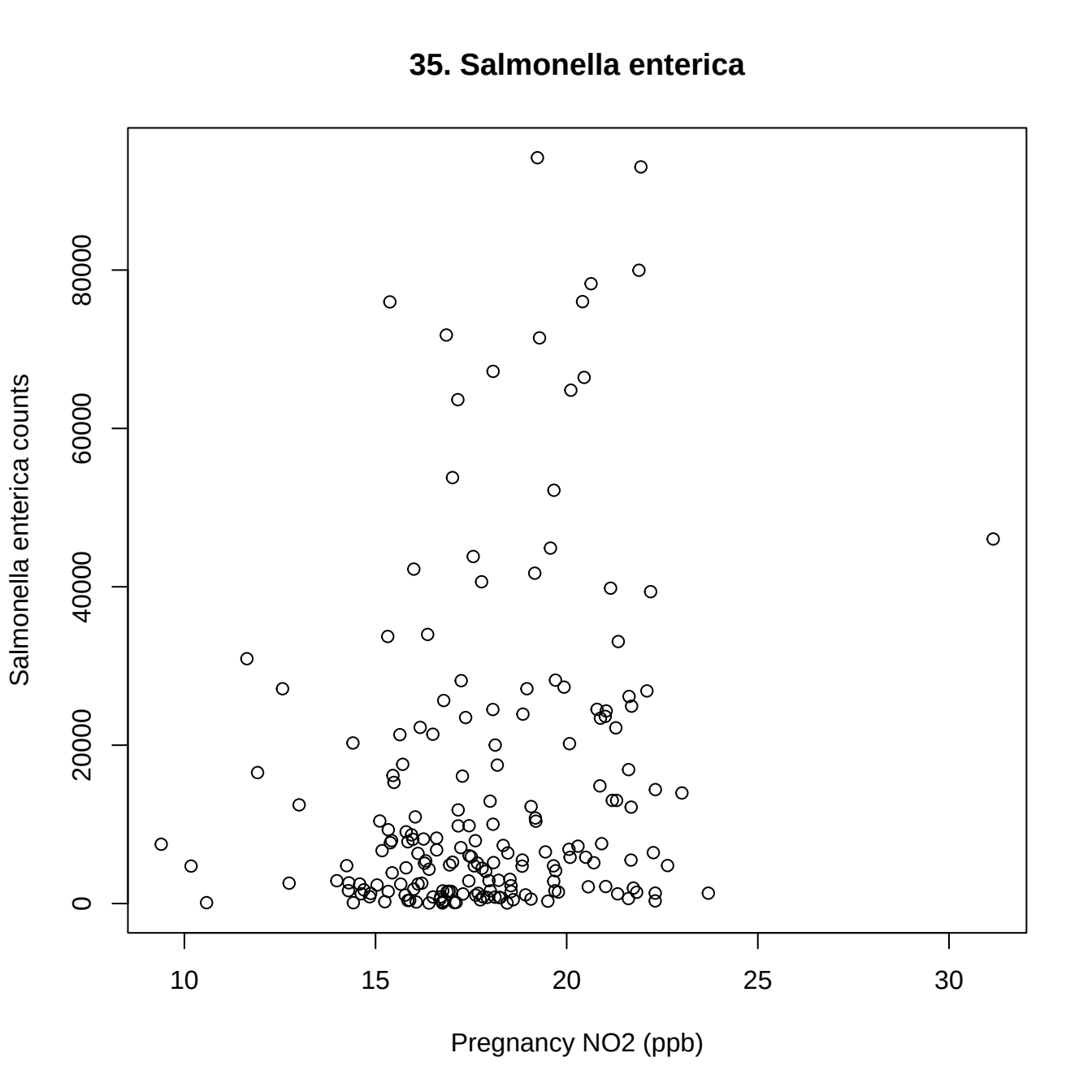
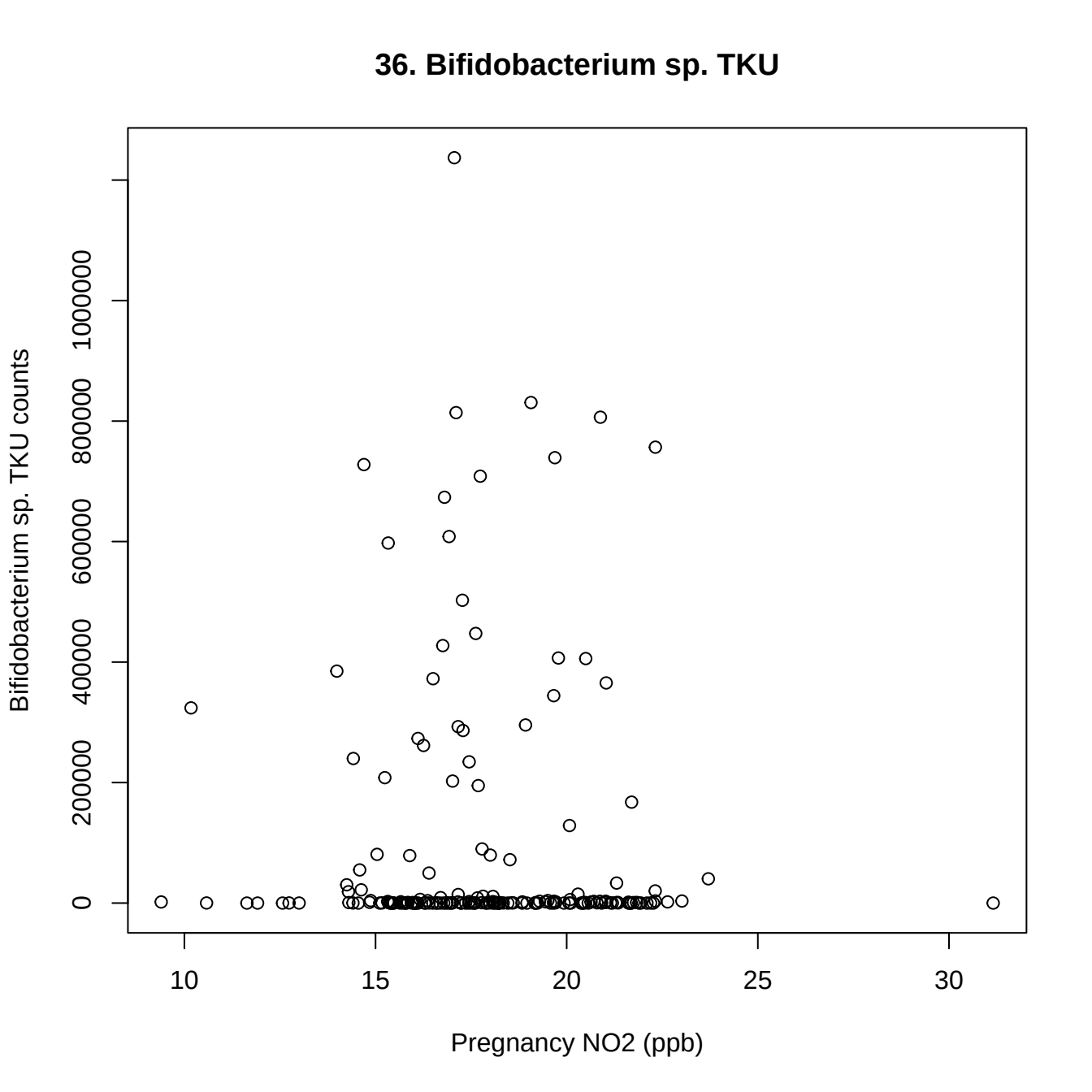
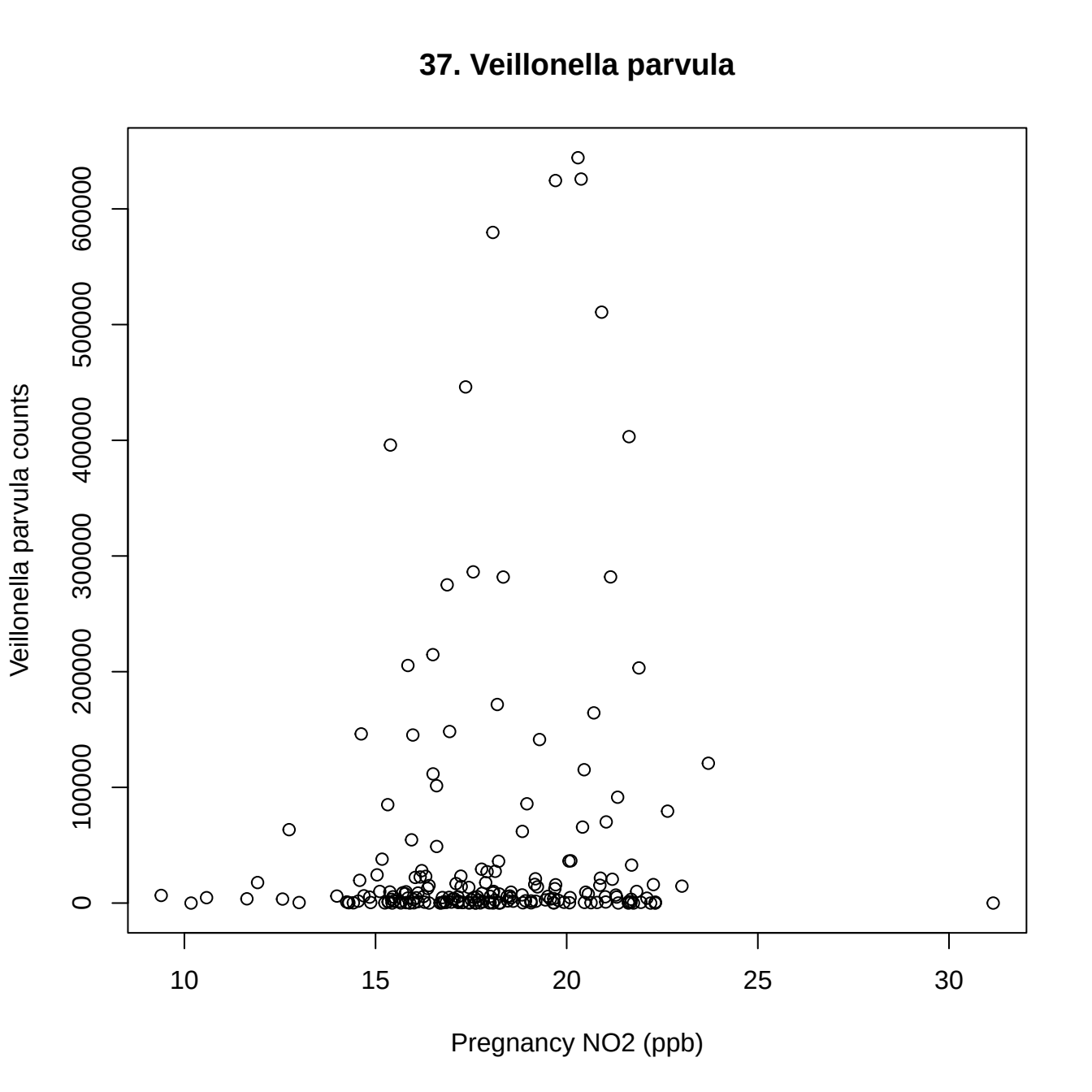
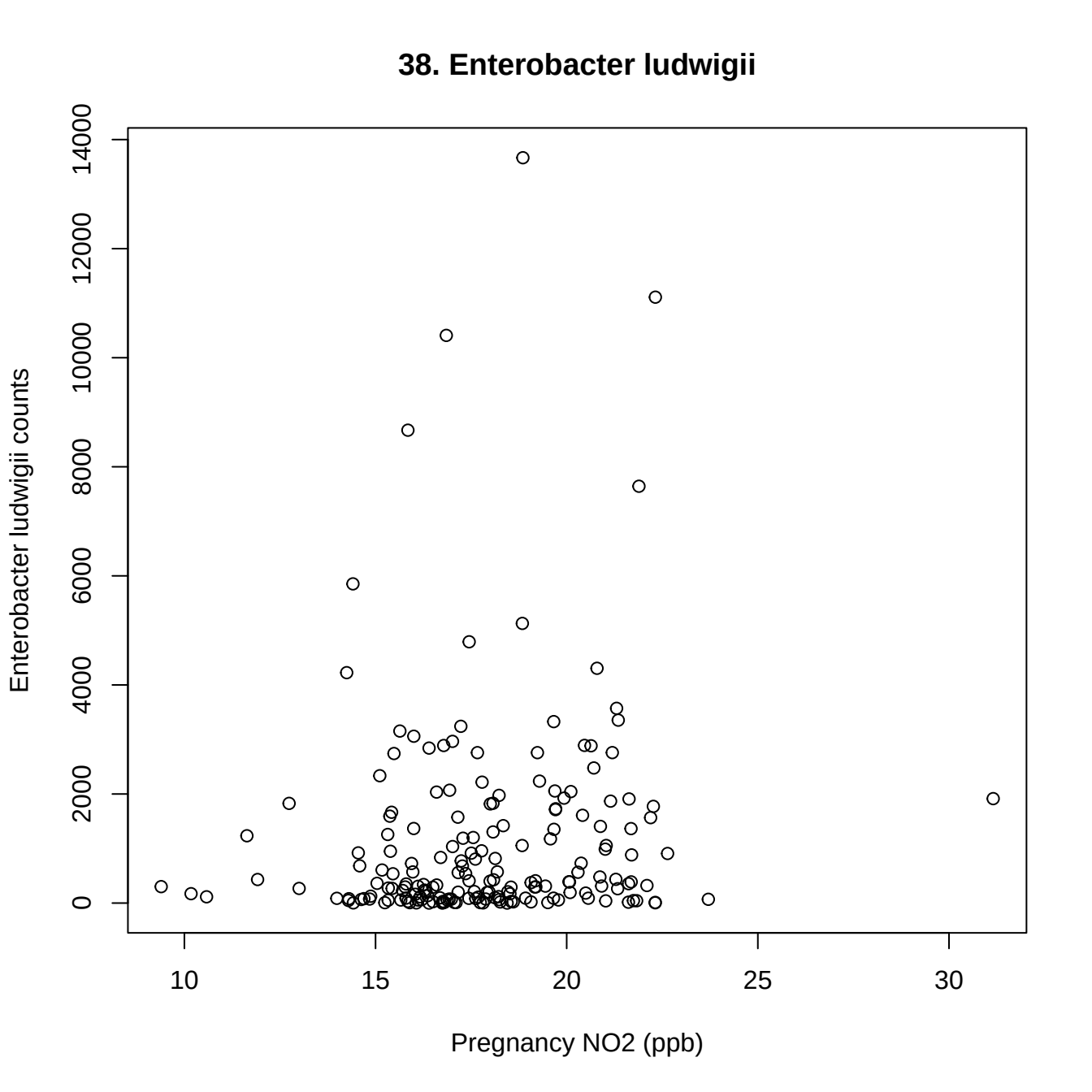
60000
70000
10
15
20
25
30
Pregnancy NO2 (ppb)

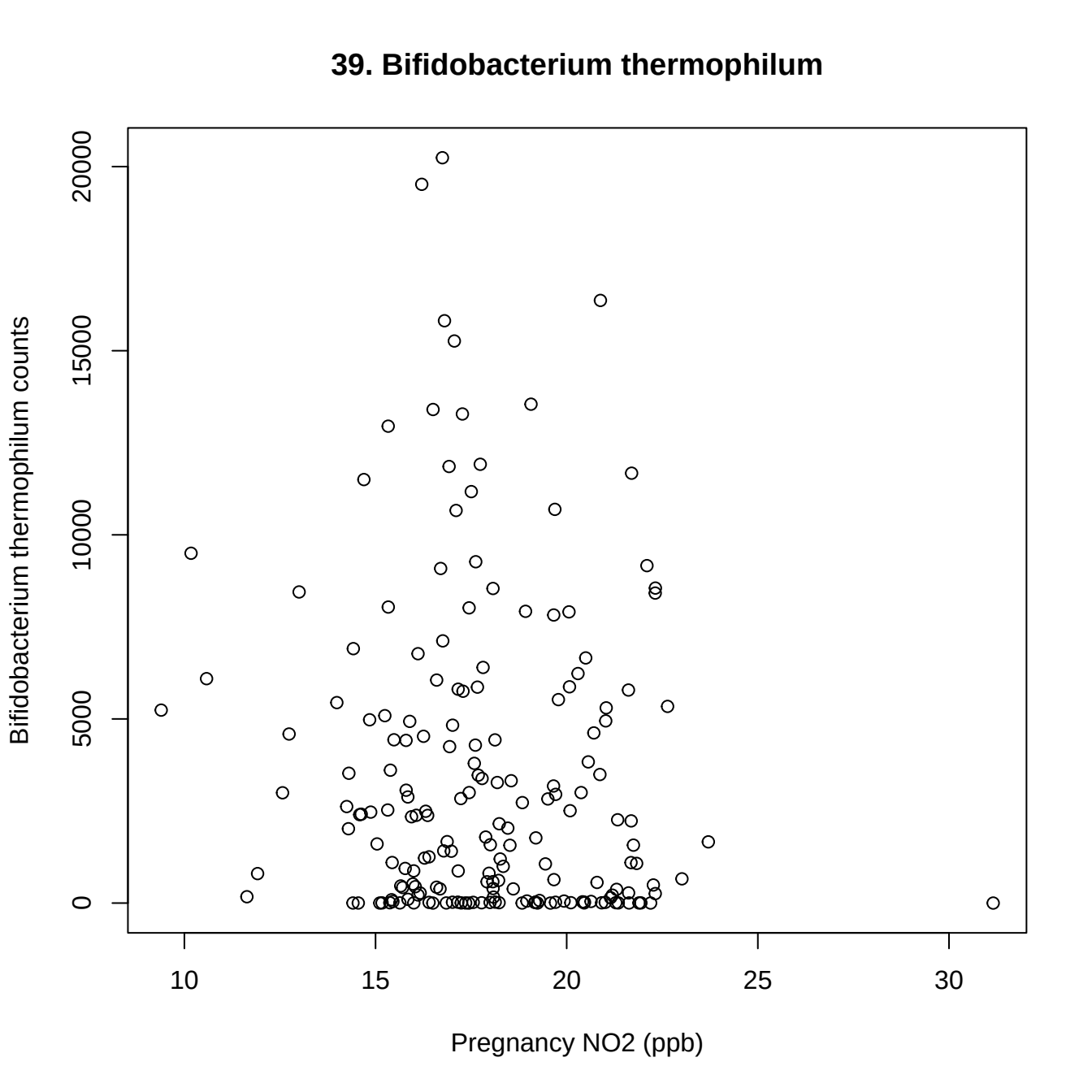

34. Streptococcus mitis
Streptococcus mitis counts
0
5000
10000
15000
20000
10
15
20
25
30
Pregnancy NO2 (ppb)

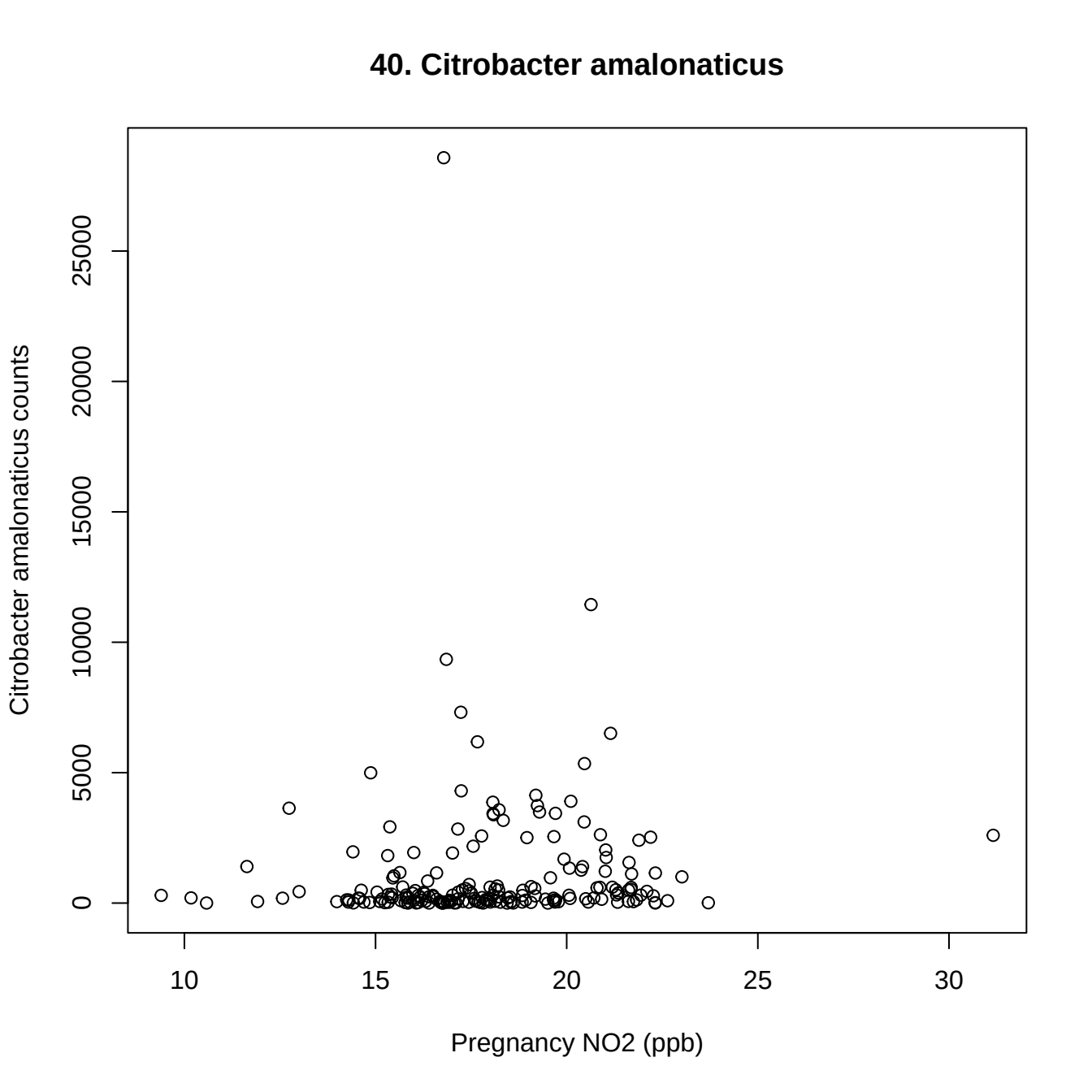

35. Salmonella enterica
Salmonella enterica counts
0
20000
40000
60000
80000
10
15
20
25
30
Pregnancy NO2 (ppb)

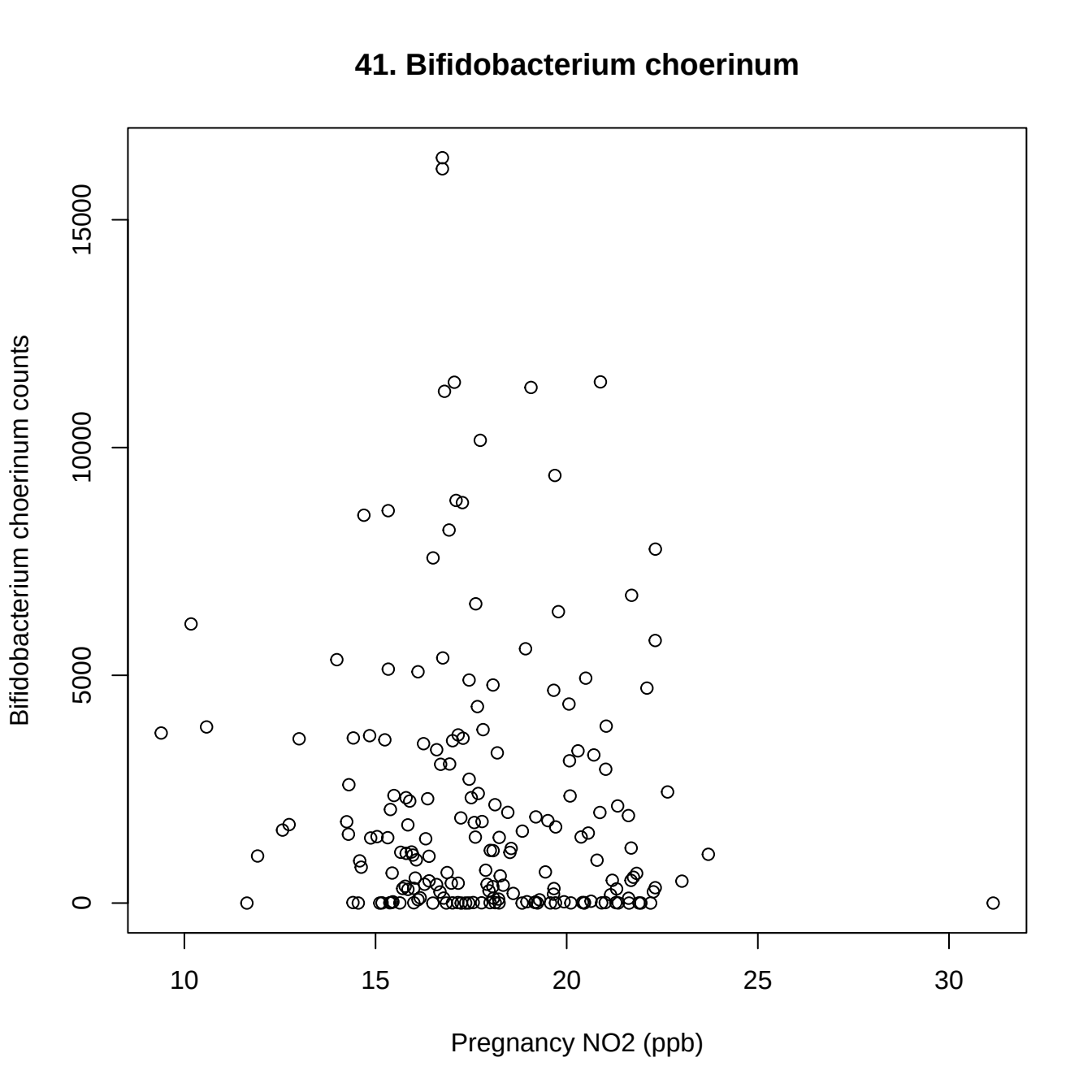

36. Bifidobacterium sp. TKU
Bifidobacterium sp. TKU counts
0
200000
400000
600000
800000
1000000
10
15
20
25
30
Pregnancy NO2 (ppb)

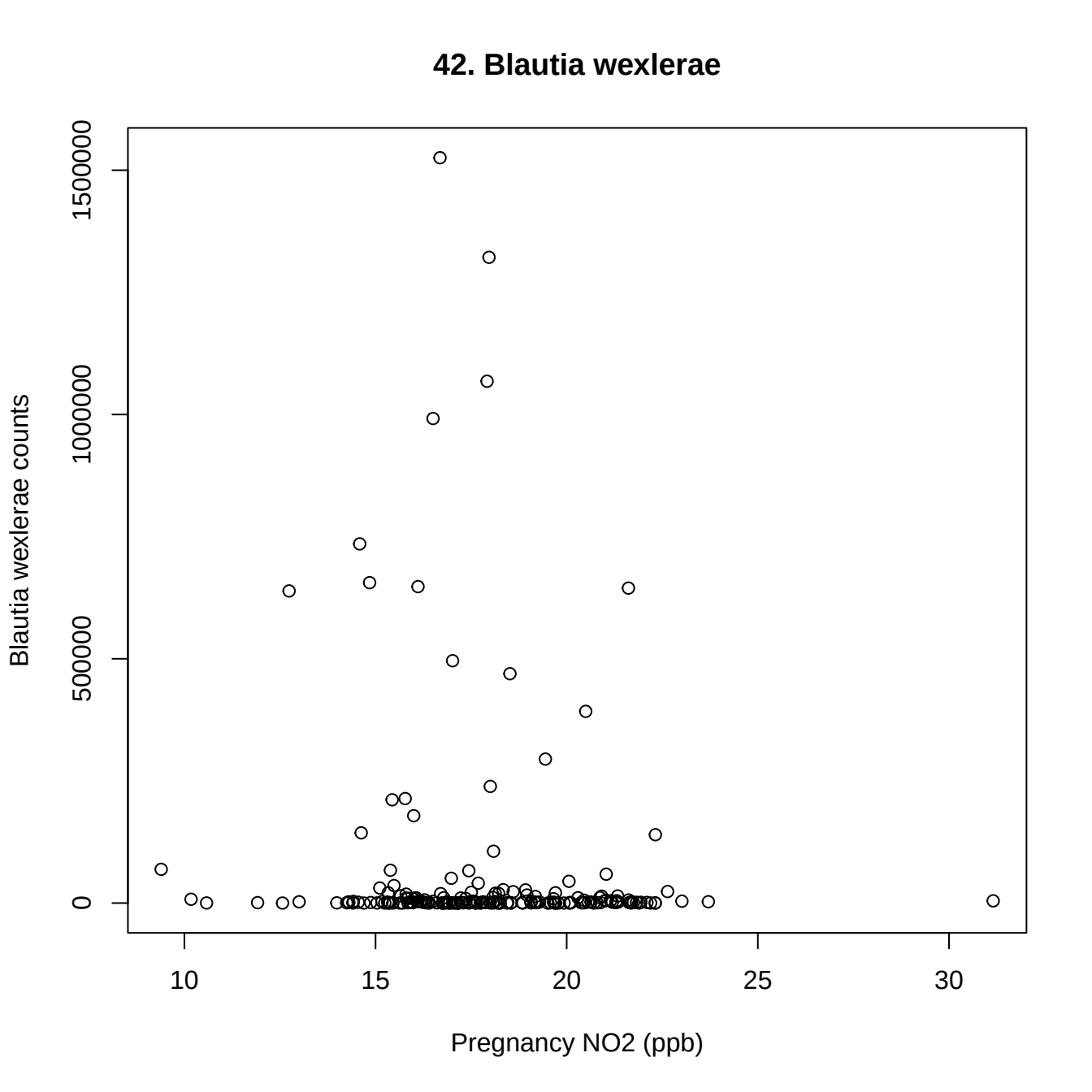

37. Veillonella parvula
Veillonella parvula counts
0
100000
200000
300000
400000
500000
600000
10
15
20
25
30
Pregnancy NO2 (ppb)

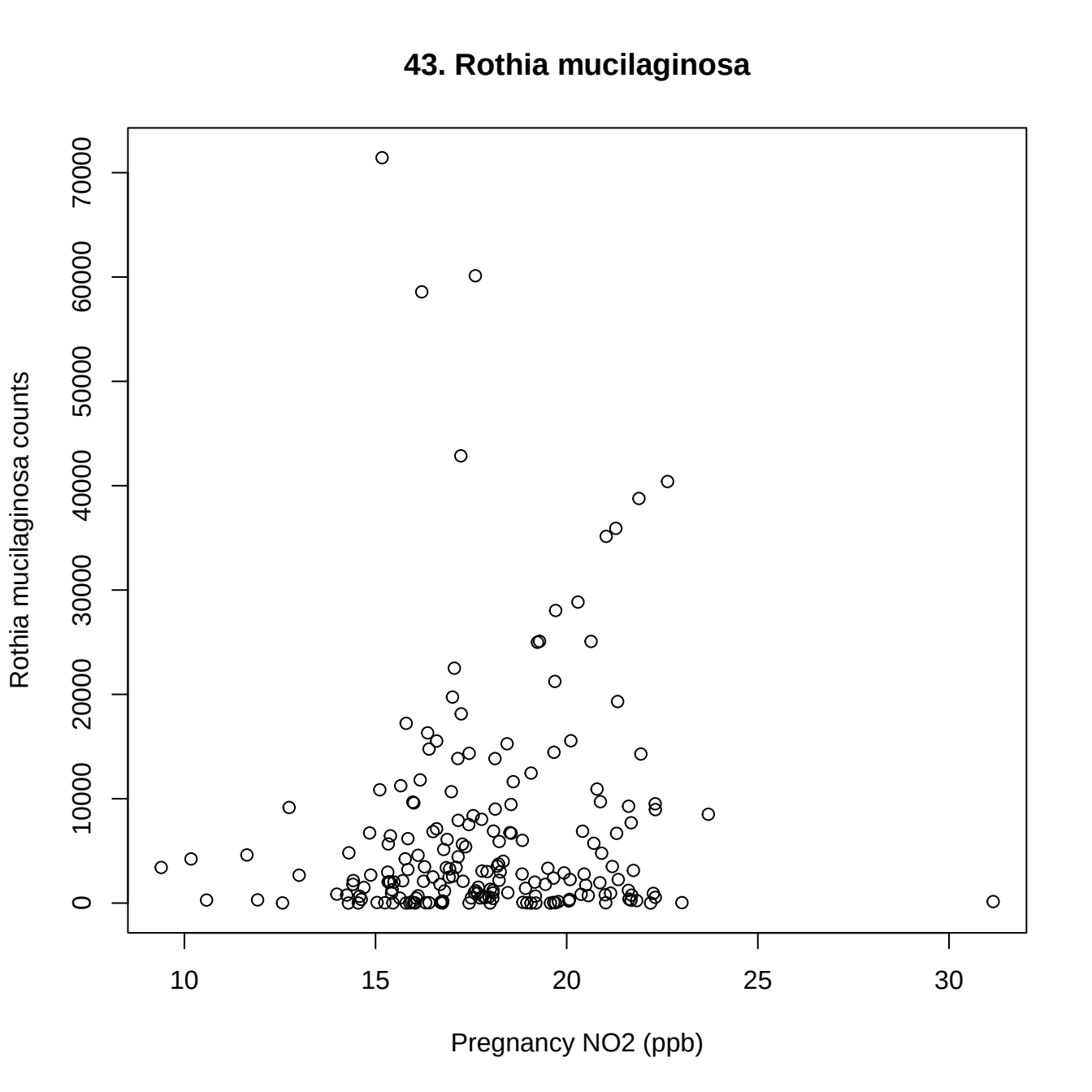

38. Enterobacter ludwigii
Enterobacter ludwigii counts
0
2000
4000
6000
8000
10000
12000
14000
10
15
20
25
30
Pregnancy NO2 (ppb)

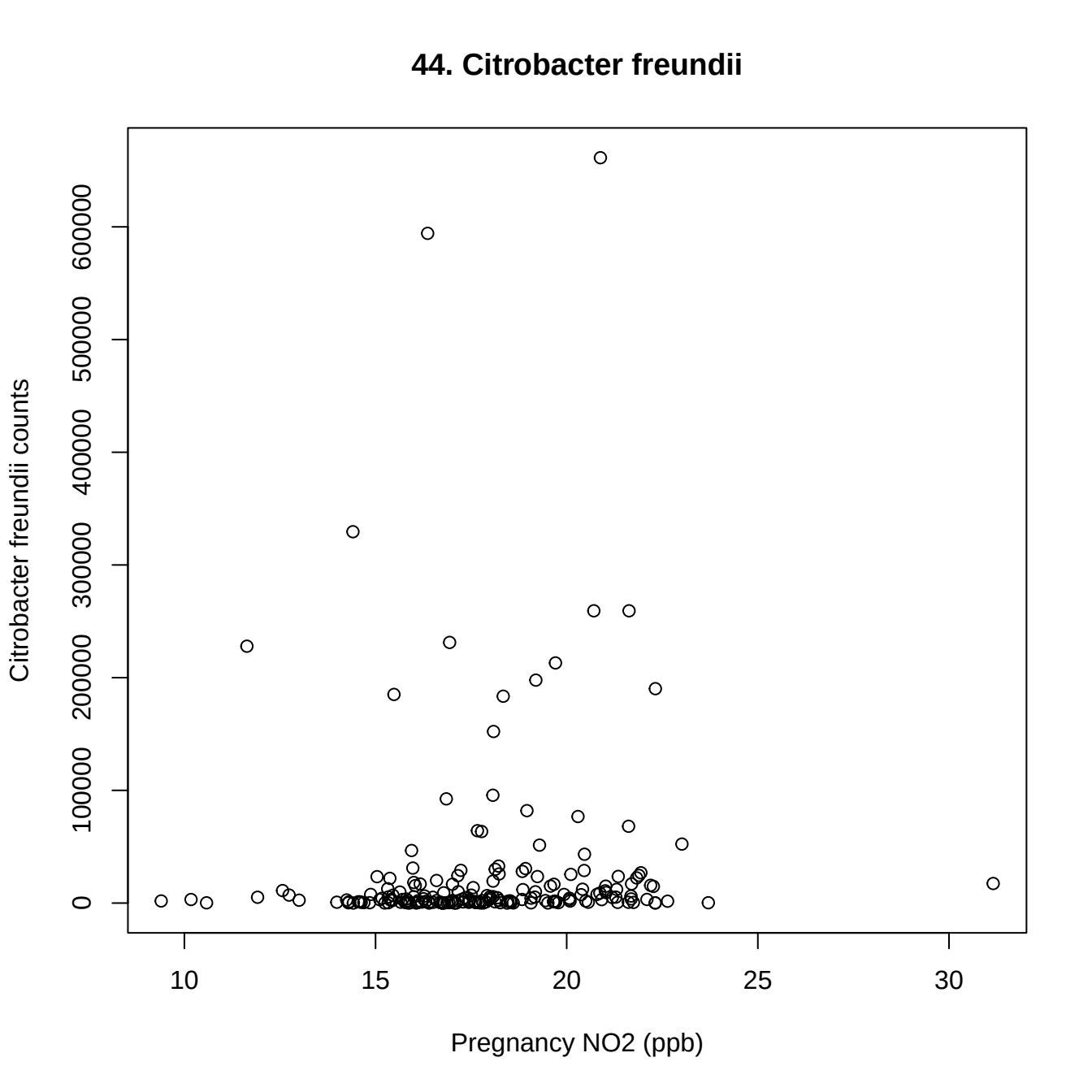

39. Bifidobacterium thermophilum
Bifidobacterium thermophilum counts
0
5000
10000
15000
20000
10
15
20
25
30
Pregnancy NO2 (ppb)

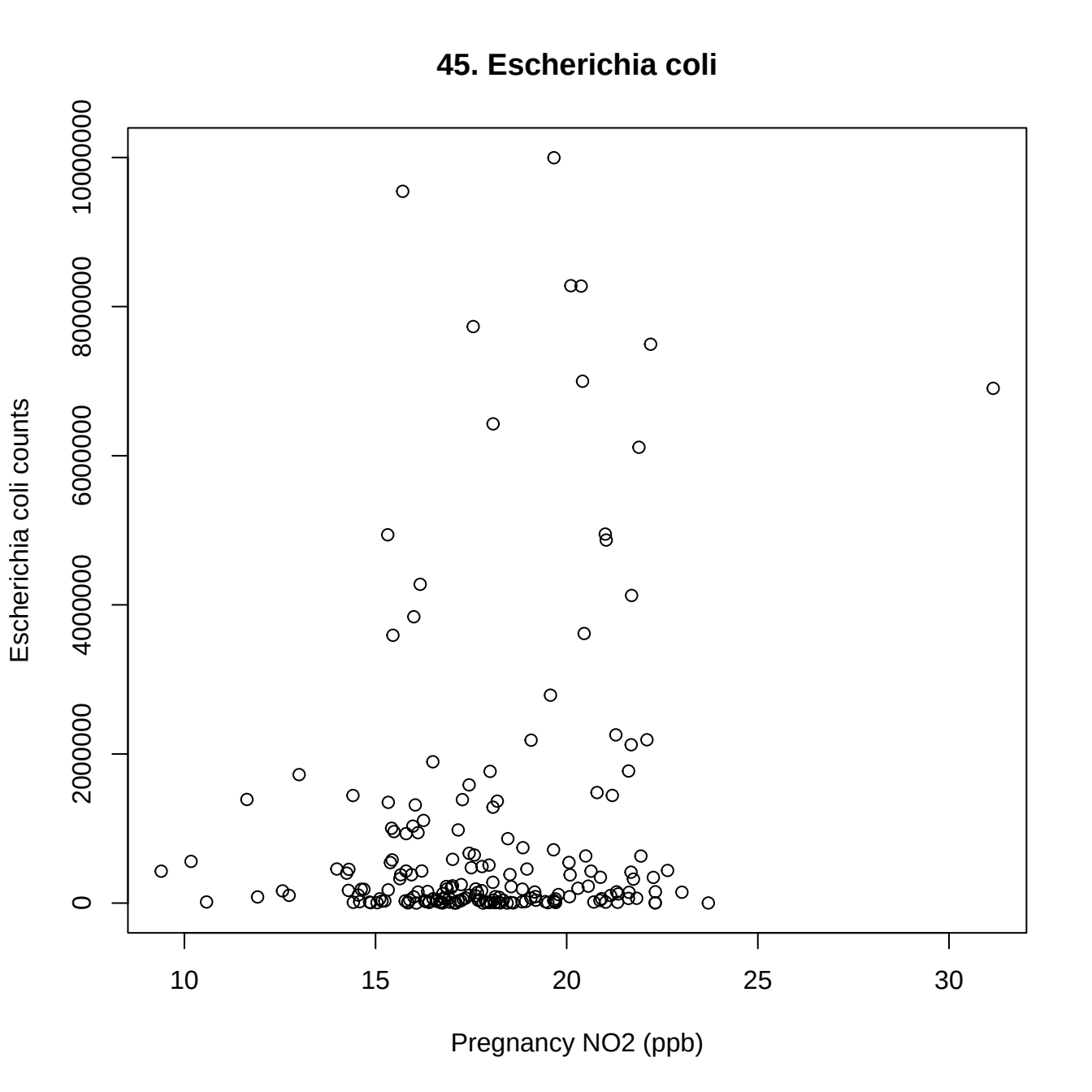

40. Citrobacter amalonaticus
Citrobacter amalonaticus counts
0
5000
10000
15000
20000
25000
10
15
20
25
30
Pregnancy NO2 (ppb)

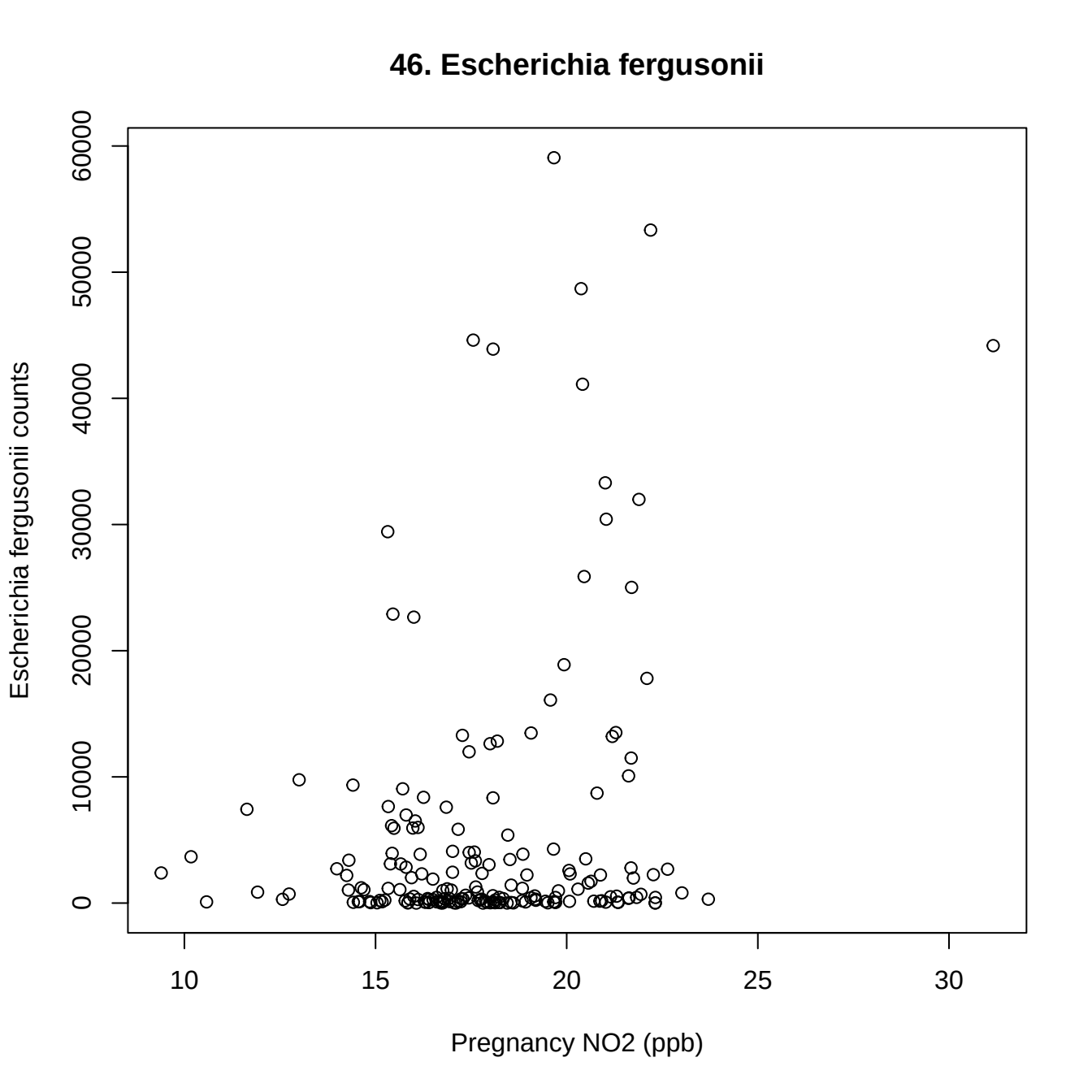

41. Bifidobacterium choerinum
Bifidobacterium choerinum counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)

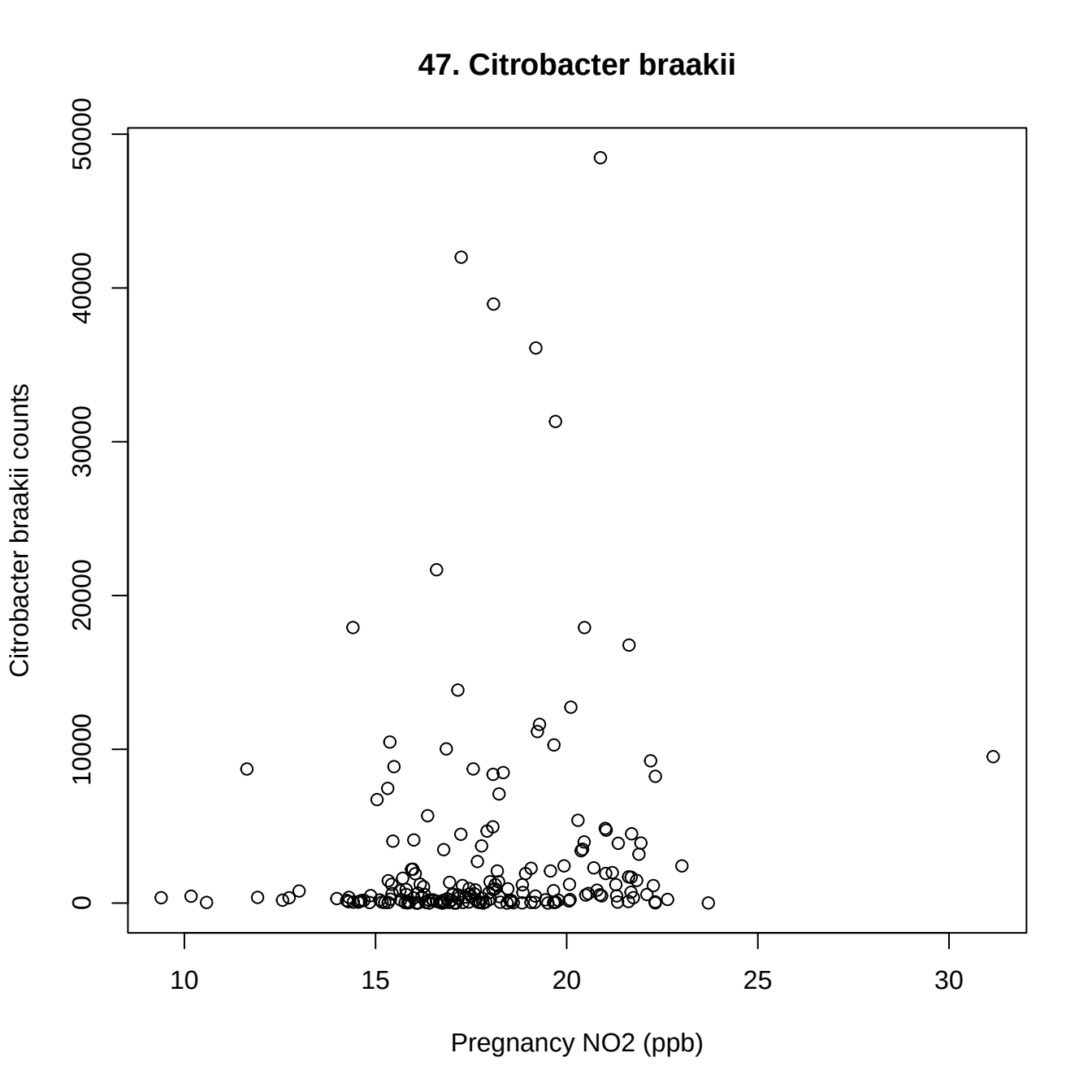

42. Blautia wexlerae
Blautia wexlerae counts
0
500000
1000000
1500000
10
15
20
25
30
Pregnancy NO2 (ppb)

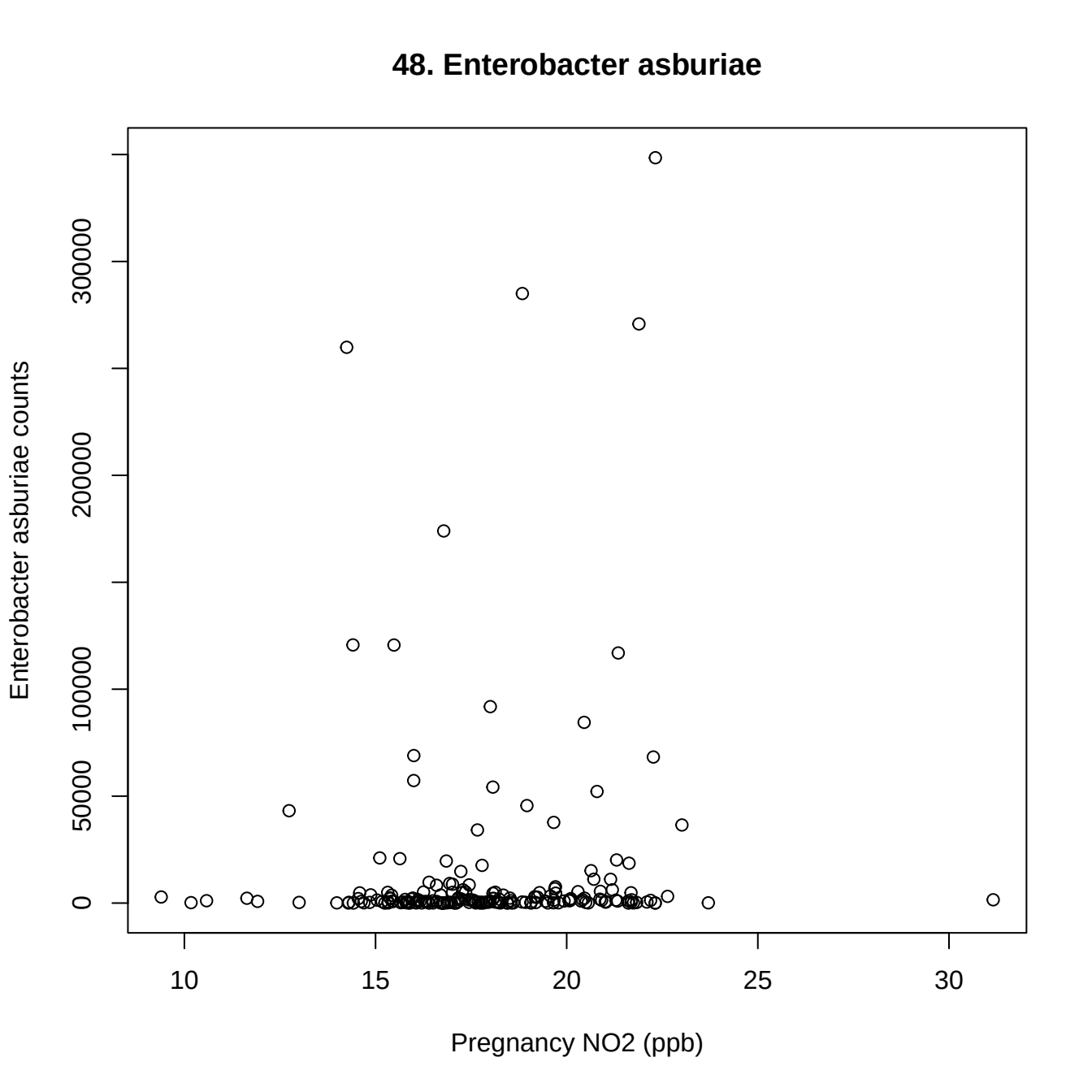

43. Rothia mucilaginosa
Rothia mucilaginosa counts
0
10000
20000
30000
40000
50000
60000
70000
10
15
20
25
30
Pregnancy NO2 (ppb)

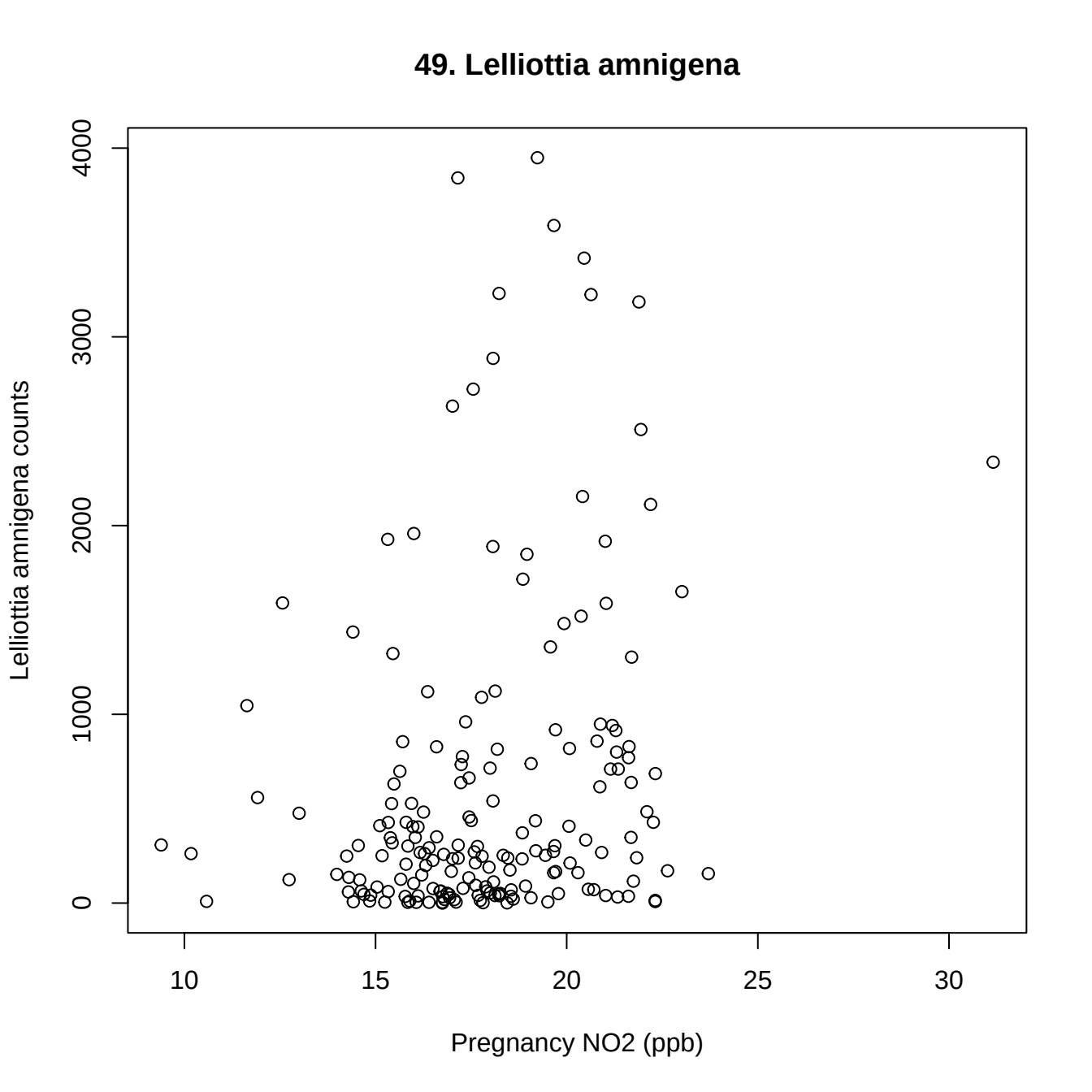

44. Citrobacter freundii
Citrobacter freundii counts
0
100000
200000
300000
400000
500000
600000
10
15
20
25
30
Pregnancy NO2 (ppb)

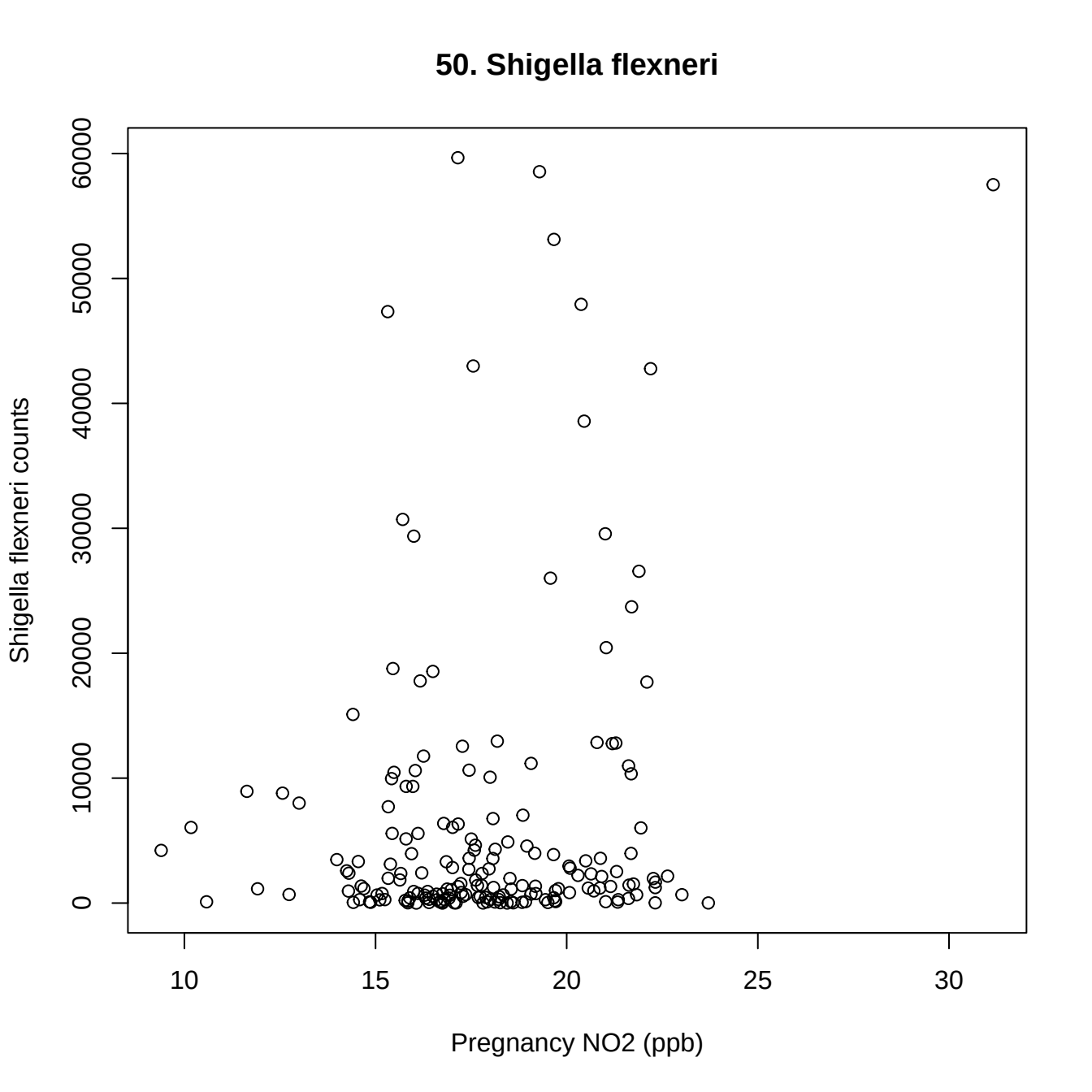

45. Escherichia coli
Escherichia coli counts
0
2000000
4000000
6000000
8000000
10000000
10
15
20
25
30
Pregnancy NO2 (ppb)

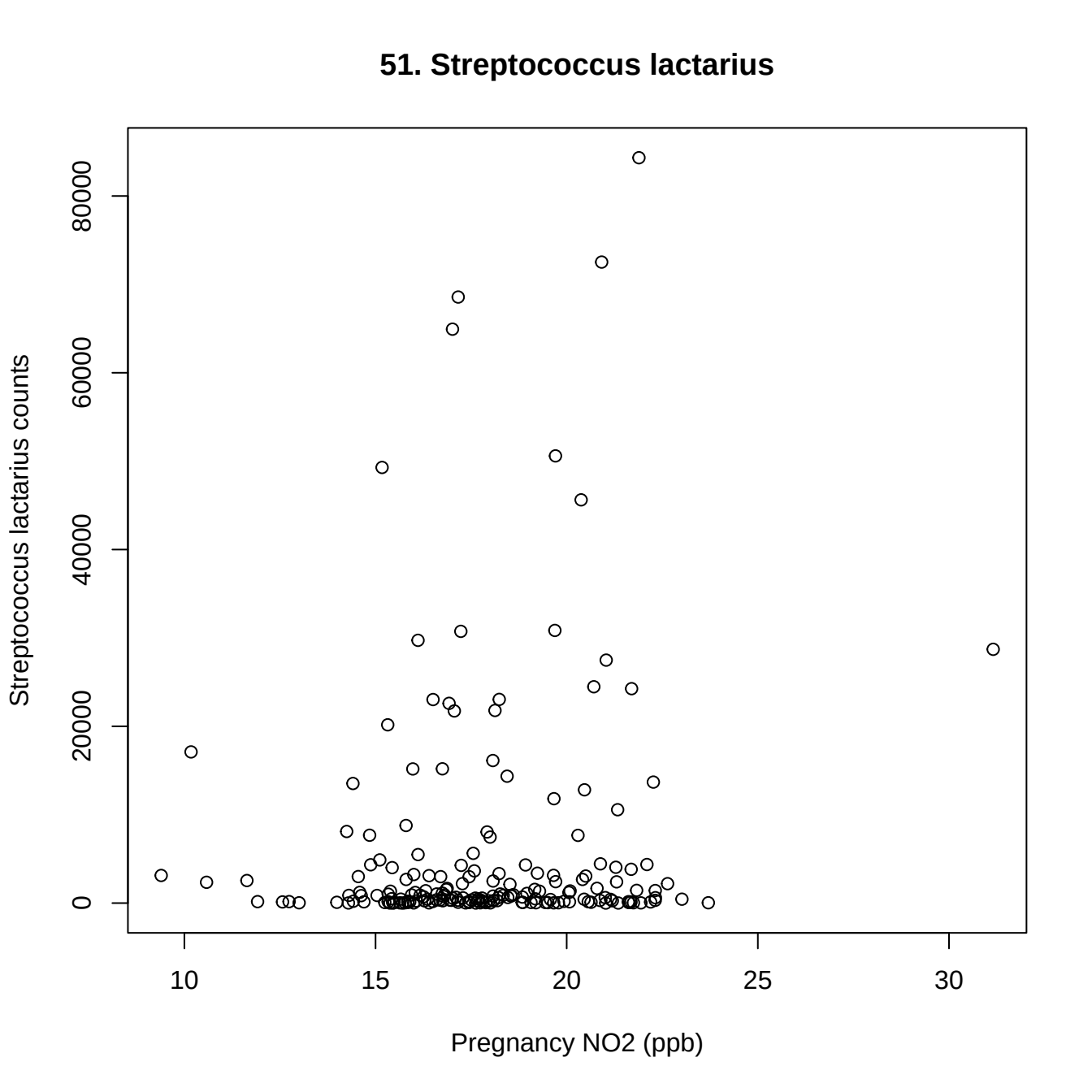

46. Escherichia fergusonii
Escherichia fergusonii counts
0
10000
20000
30000
40000
50000
60000
10
15
20
25
30
Pregnancy NO2 (ppb)

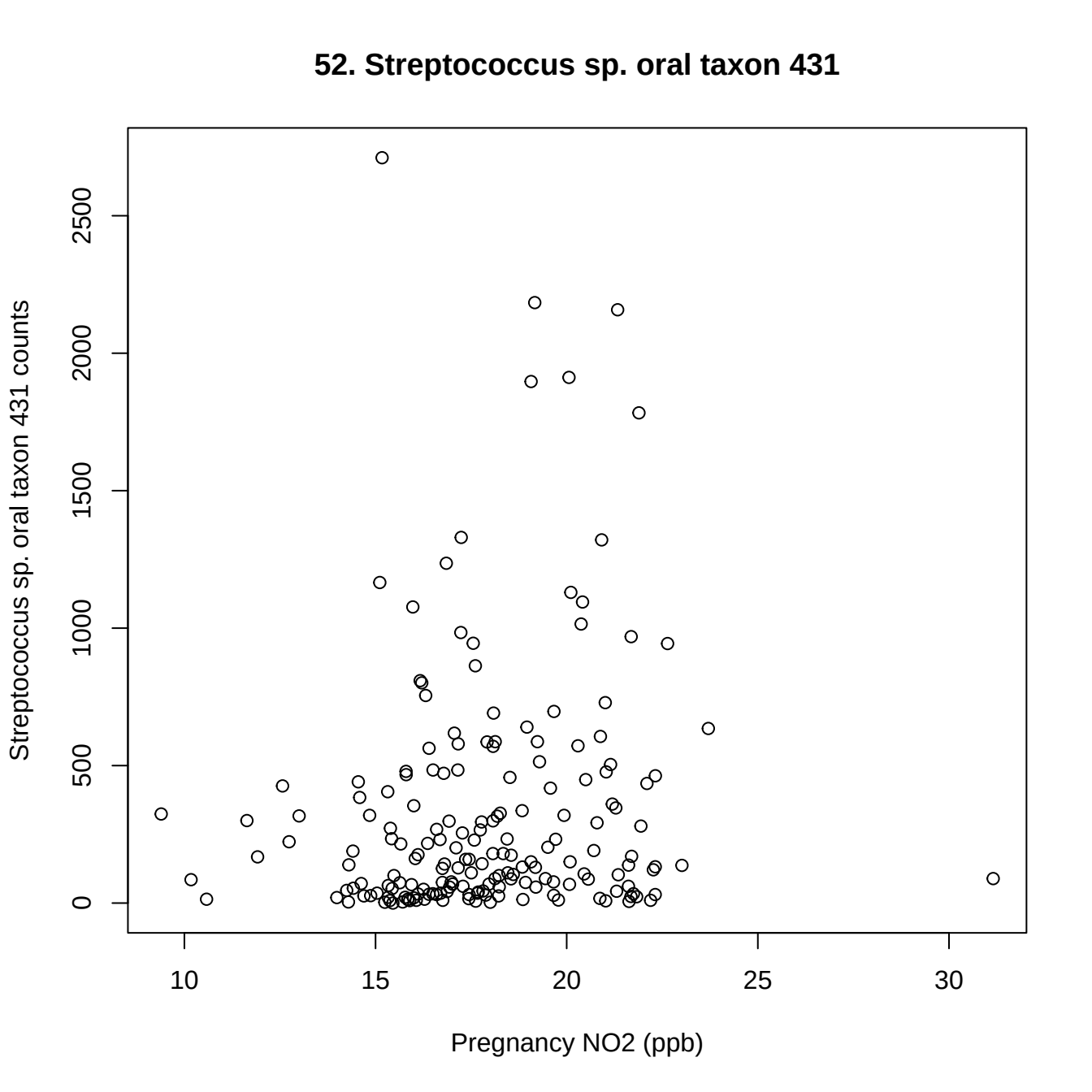

47. Citrobacter braakii
Citrobacter braakii counts
0
10000
20000
30000
40000
50000
10
15
20
25
30
Pregnancy NO2 (ppb)

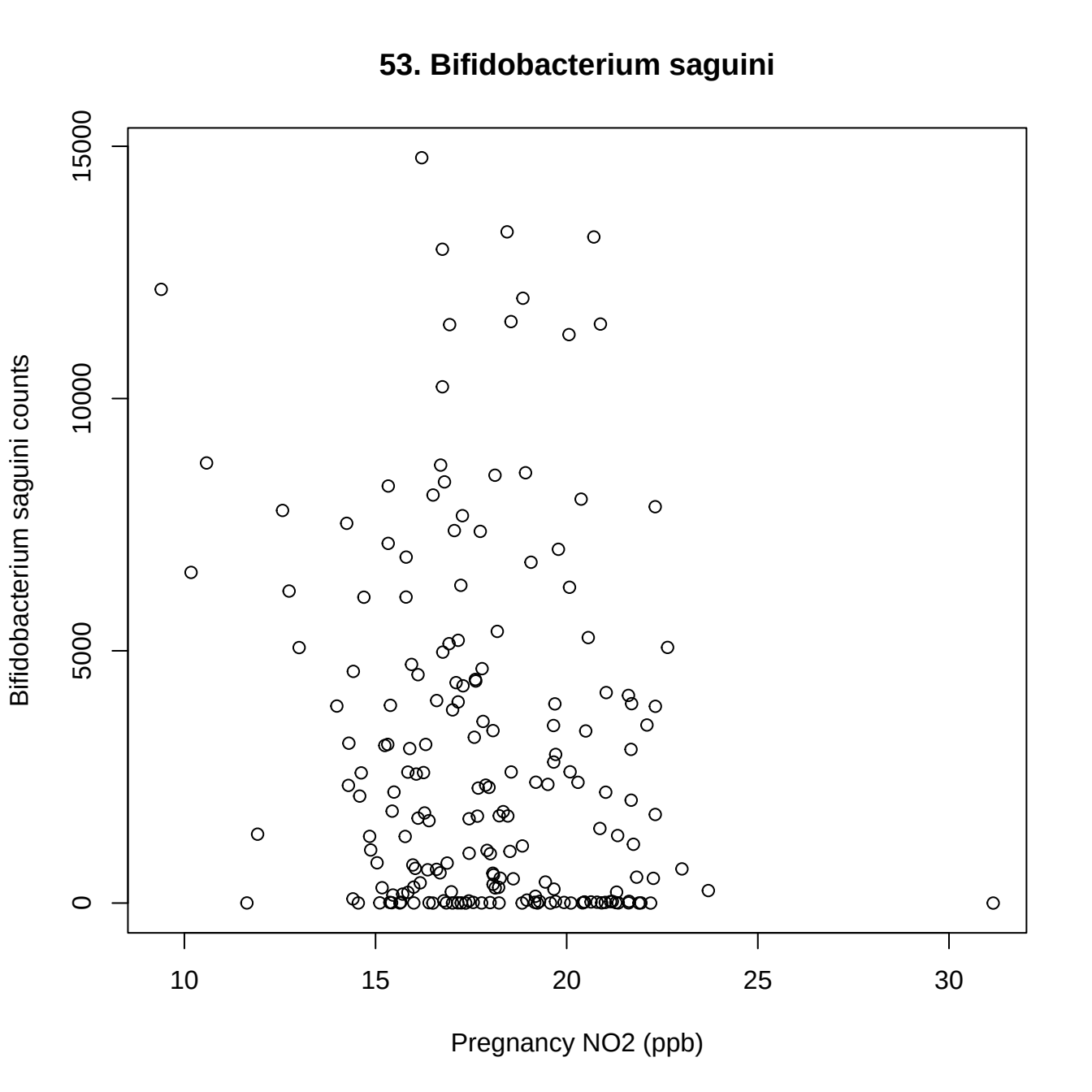

48. Enterobacter asburiae
Enterobacter asburiae counts
0
50000
100000
200000
300000
10
15
20
25
30
Pregnancy NO2 (ppb)

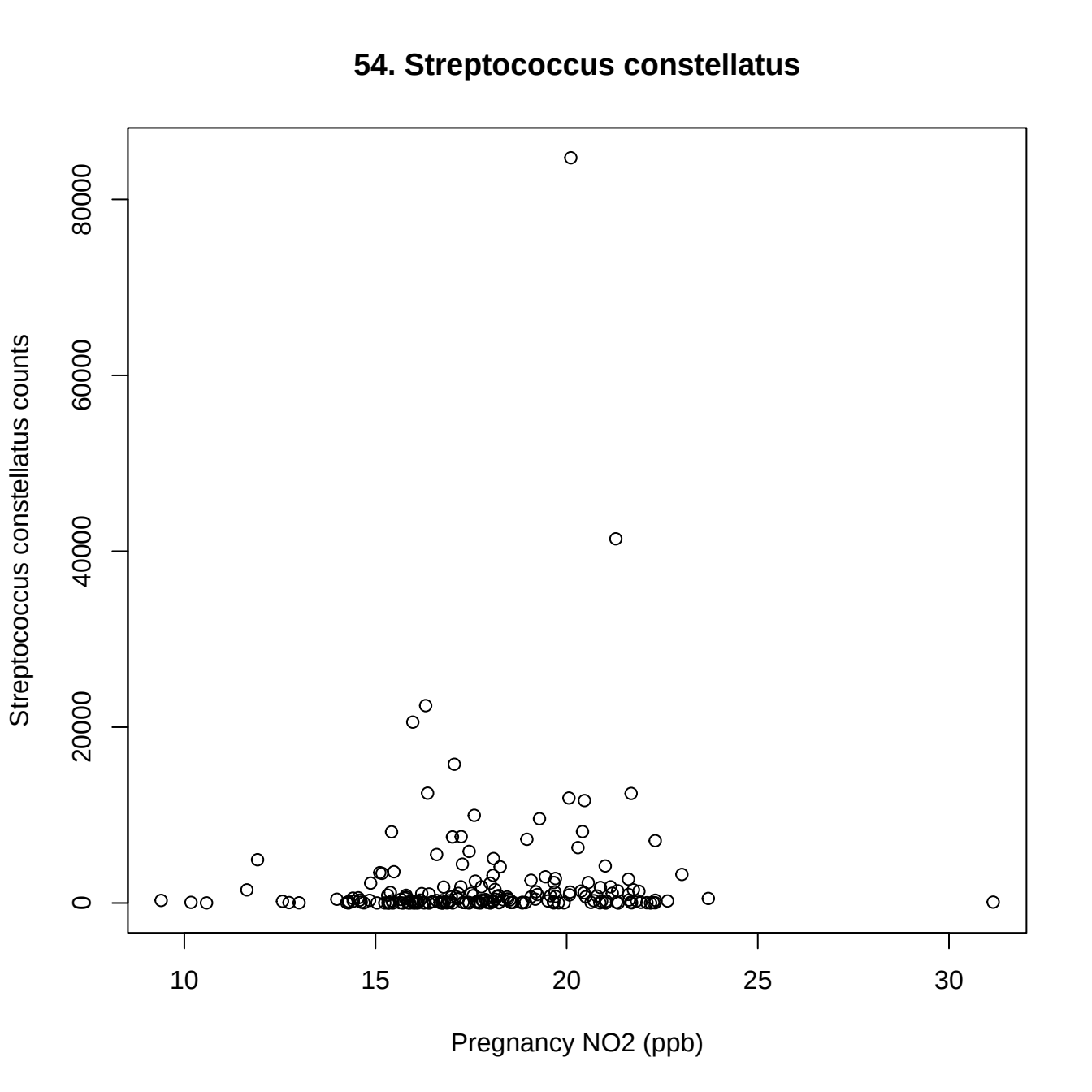

49. Lelliottia amnigena
Lelliottia amnigena counts
0
1000
2000
3000
4000
10
15
20
25
30
Pregnancy NO2 (ppb)

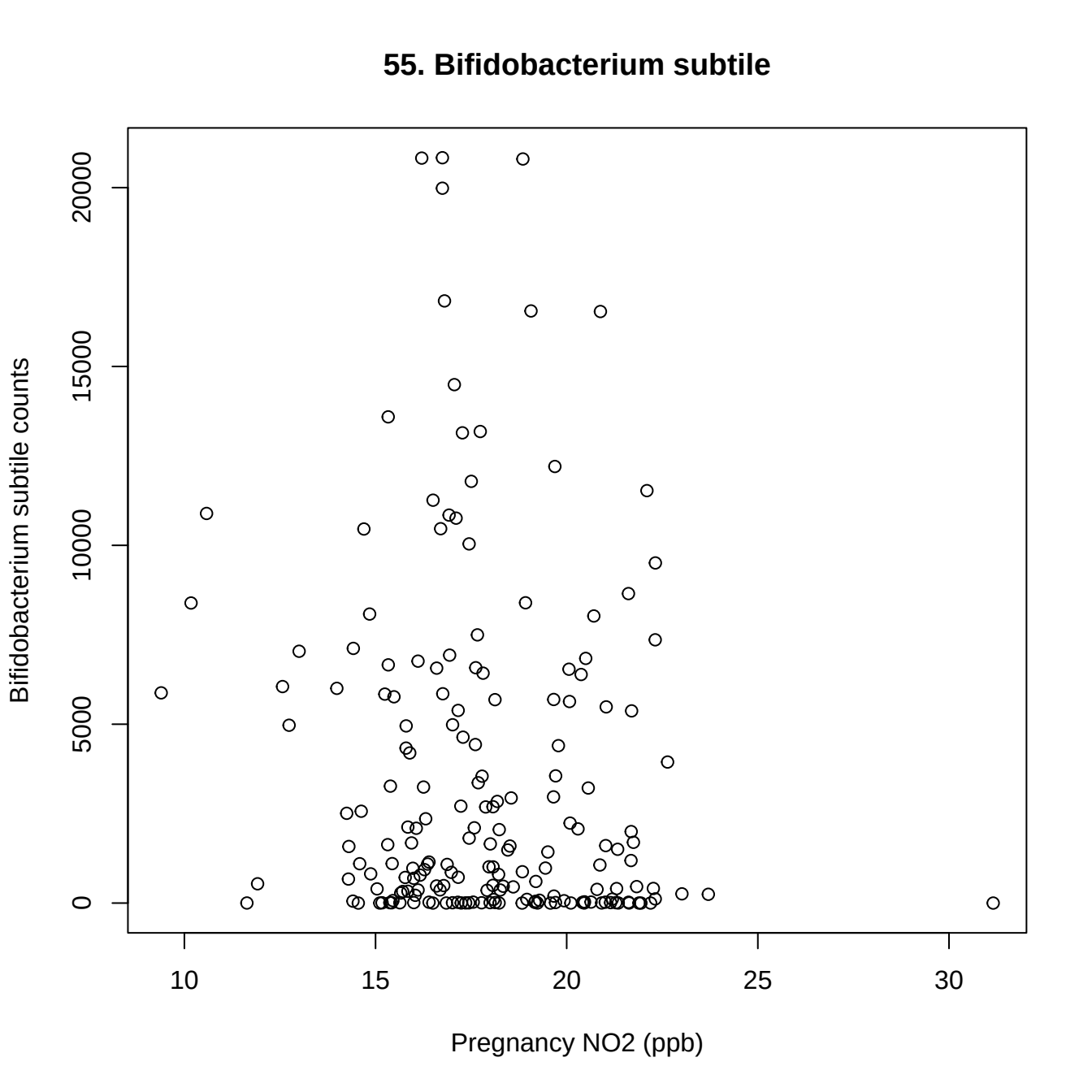

50. Shigella flexneri
Shigella flexneri counts
0
10000
20000
30000
40000
50000
60000
10
15
20
25
30
Pregnancy NO2 (ppb)

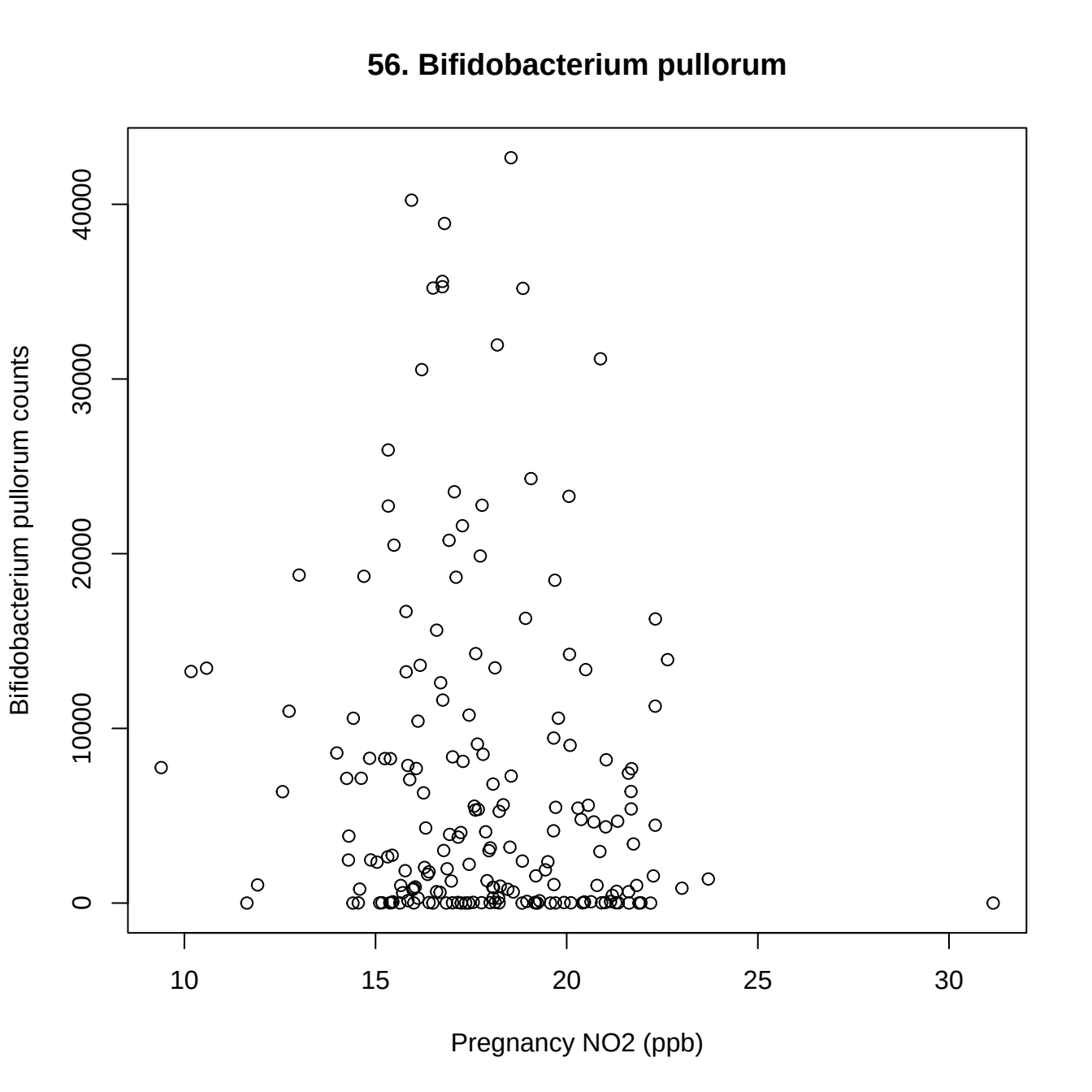

51. Streptococcus lactarius
Streptococcus lactarius counts
0
20000
40000
60000
80000
10
15
20
25
30
Pregnancy NO2 (ppb)

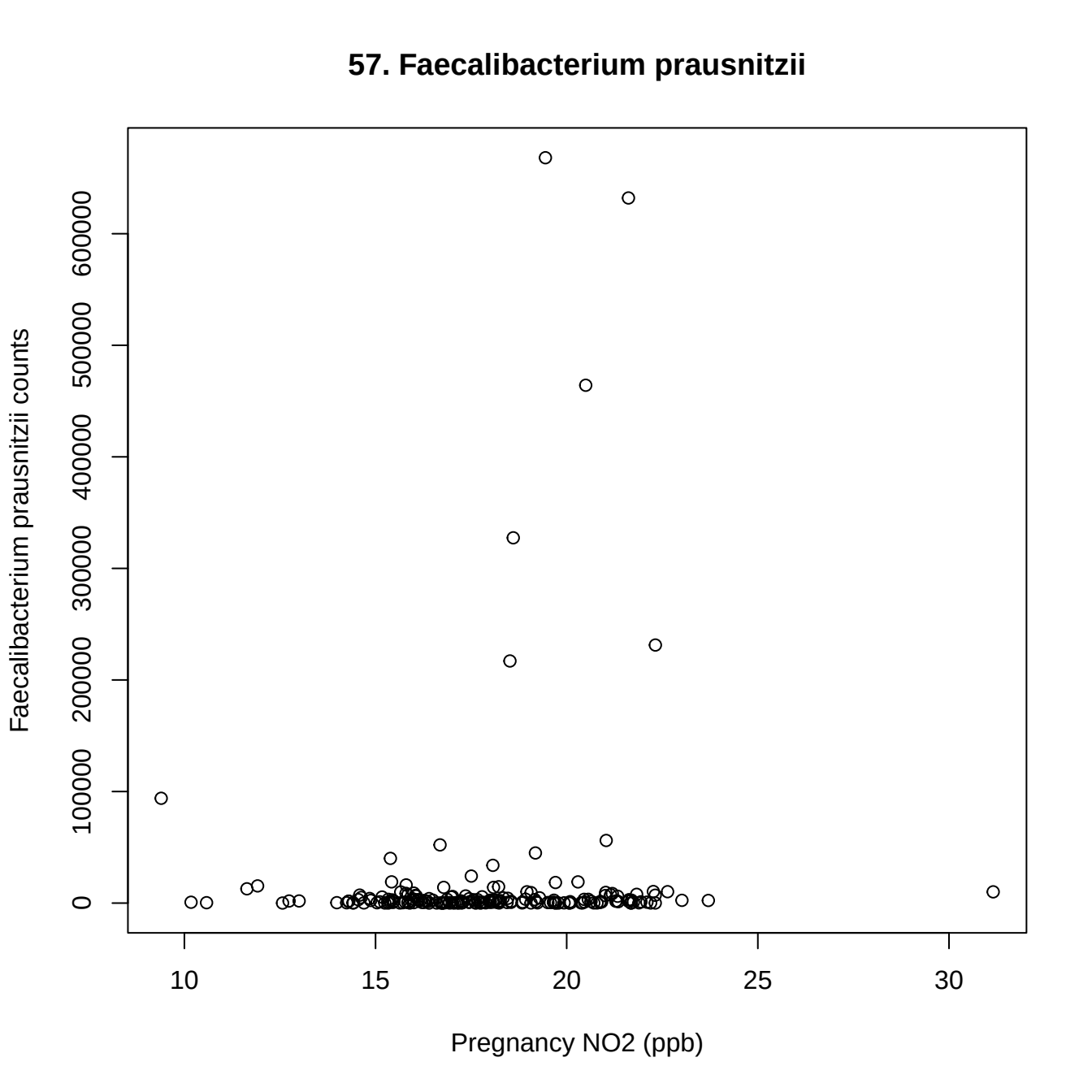

52. Streptococcus sp. oral taxon 431
Streptococcus sp. oral taxon 431 counts
0
500
1000
1500
2000
2500
10
15
20
25
30
Pregnancy NO2 (ppb)


53. Bifidobacterium saguini
Bifidobacterium saguini counts
0
5000
10000
15000
10
15
20
25
30
Pregnancy NO2 (ppb)


54. Streptococcus constellatus
Streptococcus constellatus counts
0
20000
40000
60000
80000
10
15
20
25
30
Pregnancy NO2 (ppb)


55. Bifidobacterium subtile
Bifidobacterium subtile counts
0
5000
10000
15000
20000
10
15
20
25
30
Pregnancy NO2 (ppb)


56. Bifidobacterium pullorum
Bifidobacterium pullorum counts
0
10000
20000
30000
40000
10
15
20
25
30
Pregnancy NO2 (ppb)


57. Faecalibacterium prausnitzii
Faecalibacterium prausnitzii counts
0
100000
200000
300000
400000
500000
600000
10
15
20
25
30
Pregnancy NO2 (ppb)