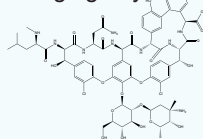


Outcome







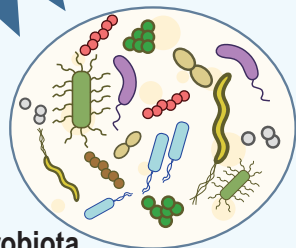
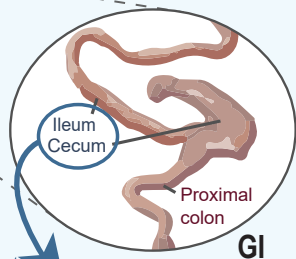
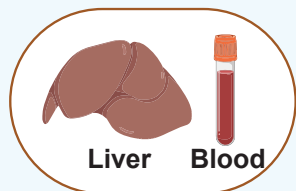
Timeline

Day 0	Exposure	Day 8
<p>1. Baseline</p> <p>2. Baseline</p> <p>3. Baseline</p> <p>4. Baseline</p> <p>5. Baseline</p> <p>6. Baseline</p> <p>7. Baseline</p> <p>8. Baseline</p> <p>9. Baseline</p> <p>10. Baseline</p> <p>11. Baseline</p> <p>12. Baseline</p> <p>13. Baseline</p> <p>14. Baseline</p> <p>15. Baseline</p> <p>16. Baseline</p> <p>17. Baseline</p> <p>18. Baseline</p> <p>19. Baseline</p> <p>20. Baseline</p> <p>21. Baseline</p> <p>22. Baseline</p> <p>23. Baseline</p> <p>24. Baseline</p> <p>25. Baseline</p> <p>26. Baseline</p> <p>27. Baseline</p> <p>28. Baseline</p> <p>29. Baseline</p> <p>30. Baseline</p> <p>31. Baseline</p> <p>32. Baseline</p> <p>33. Baseline</p> <p>34. Baseline</p> <p>35. Baseline</p> <p>36. Baseline</p> <p>37. Baseline</p> <p>38. Baseline</p> <p>39. Baseline</p> <p>40. Baseline</p> <p>41. Baseline</p> <p>42. Baseline</p> <p>43. Baseline</p> <p>44. Baseline</p> <p>45. Baseline</p> <p>46. Baseline</p> <p>47. Baseline</p> <p>48. Baseline</p> <p>49. Baseline</p> <p>50. Baseline</p> <p>51. Baseline</p> <p>52. Baseline</p> <p>53. Baseline</p> <p>54. Baseline</p> <p>55. Baseline</p> <p>56. Baseline</p> <p>57. Baseline</p> <p>58. Baseline</p> <p>59. Baseline</p> <p>60. Baseline</p> <p>61. Baseline</p> <p>62. Baseline</p> <p>63. Baseline</p> <p>64. Baseline</p> <p>65. Baseline</p> <p>66. Baseline</p> <p>67. Baseline</p> <p>68. Baseline</p> <p>69. Baseline</p> <p>70. Baseline</p> <p>71. Baseline</p> <p>72. Baseline</p> <p>73. Baseline</p> <p>74. Baseline</p> <p>75. Baseline</p> <p>76. Baseline</p> <p>77. Baseline</p> <p>78. Baseline</p> <p>79. Baseline</p> <p>80. Baseline</p> <p>81. Baseline</p> <p>82. Baseline</p> <p>83. Baseline</p> <p>84. Baseline</p> <p>85. Baseline</p> <p>86. Baseline</p> <p>87. Baseline</p> <p>88. Baseline</p> <p>89. Baseline</p> <p>90. Baseline</p> <p>91. Baseline</p> <p>92. Baseline</p> <p>93. Baseline</p> <p>94. Baseline</p> <p>95. Baseline</p> <p>96. Baseline</p> <p>97. Baseline</p> <p>98. Baseline</p> <p>99. Baseline</p> <p>100. Baseline</p>	<p>1. Exposure</p> <p>2. Exposure</p> <p>3. Exposure</p> <p>4. Exposure</p> <p>5. Exposure</p> <p>6. Exposure</p> <p>7. Exposure</p> <p>8. Exposure</p> <p>9. Exposure</p> <p>10. Exposure</p> <p>11. Exposure</p> <p>12. Exposure</p> <p>13. Exposure</p> <p>14. Exposure</p> <p>15. Exposure</p> <p>16. Exposure</p> <p>17. Exposure</p> <p>18. Exposure</p> <p>19. Exposure</p> <p>20. Exposure</p> <p>21. Exposure</p> <p>22. Exposure</p> <p>23. Exposure</p> <p>24. Exposure</p> <p>25. Exposure</p> <p>26. Exposure</p> <p>27. Exposure</p> <p>28. Exposure</p> <p>29. Exposure</p> <p>30. Exposure</p> <p>31. Exposure</p> <p>32. Exposure</p> <p>33. Exposure</p> <p>34. Exposure</p> <p>35. Exposure</p> <p>36. Exposure</p> <p>37. Exposure</p> <p>38. Exposure</p> <p>39. Exposure</p> <p>40. Exposure</p> <p>41. Exposure</p> <p>42. Exposure</p> <p>43. Exposure</p> <p>44. Exposure</p> <p>45. Exposure</p> <p>46. Exposure</p> <p>47. Exposure</p> <p>48. Exposure</p> <p>49. Exposure</p> <p>50. Exposure</p> <p>51. Exposure</p> <p>52. Exposure</p> <p>53. Exposure</p> <p>54. Exposure</p> <p>55. Exposure</p> <p>56. Exposure</p> <p>57. Exposure</p> <p>58. Exposure</p> <p>59. Exposure</p> <p>60. Exposure</p> <p>61. Exposure</p> <p>62. Exposure</p> <p>63. Exposure</p> <p>64. Exposure</p> <p>65. Exposure</p> <p>66. Exposure</p> <p>67. Exposure</p> <p>68. Exposure</p> <p>69. Exposure</p> <p>70. Exposure</p> <p>71. Exposure</p> <p>72. Exposure</p> <p>73. Exposure</p> <p>74. Exposure</p> <p>75. Exposure</p> <p>76. Exposure</p> <p>77. Exposure</p> <p>78. Exposure</p> <p>79. Exposure</p> <p>80. Exposure</p> <p>81. Exposure</p> <p>82. Exposure</p> <p>83. Exposure</p> <p>84. Exposure</p> <p>85. Exposure</p> <p>86. Exposure</p> <p>87. Exposure</p> <p>88. Exposure</p> <p>89. Exposure</p> <p>90. Exposure</p> <p>91. Exposure</p> <p>92. Exposure</p> <p>93. Exposure</p> <p>94. Exposure</p> <p>95. Exposure</p> <p>96. Exposure</p> <p>97. Exposure</p> <p>98. Exposure</p> <p>99. Exposure</p> <p>100. Exposure</p>	<p>1. Day 8</p> <p>2. Day 8</p> <p>3. Day 8</p> <p>4. Day 8</p> <p>5. Day 8</p> <p>6. Day 8</p> <p>7. Day 8</p> <p>8. Day 8</p> <p>9. Day 8</p> <p>10. Day 8</p> <p>11. Day 8</p> <p>12. Day 8</p> <p>13. Day 8</p> <p>14. Day 8</p> <p>15. Day 8</p> <p>16. Day 8</p> <p>17. Day 8</p> <p>18. Day 8</p> <p>19. Day 8</p> <p>20. Day 8</p> <p>21. Day 8</p> <p>22. Day 8</p> <p>23. Day 8</p> <p>24. Day 8</p> <p>25. Day 8</p> <p>26. Day 8</p> <p>27. Day 8</p> <p>28. Day 8</p> <p>29. Day 8</p> <p>30. Day 8</p> <p>31. Day 8</p> <p>32. Day 8</p> <p>33. Day 8</p> <p>34. Day 8</p> <p>35. Day 8</p> <p>36. Day 8</p> <p>37. Day 8</p> <p>38. Day 8</p> <p>39. Day 8</p> <p>40. Day 8</p> <p>41. Day 8</p> <p>42. Day 8</p> <p>43. Day 8</p> <p>44. Day 8</p> <p>45. Day 8</p> <p>46. Day 8</p> <p>47. Day 8</p> <p>48. Day 8</p> <p>49. Day 8</p> <p>50. Day 8</p> <p>51. Day 8</p> <p>52. Day 8</p> <p>53. Day 8</p> <p>54. Day 8</p> <p>55. Day 8</p> <p>56. Day 8</p>

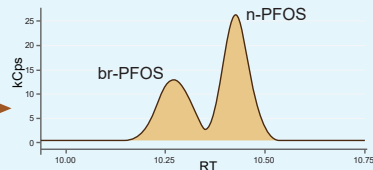


Groups

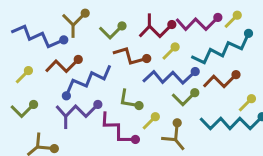
- | | | |
|---|---|--------|
|  | CTRL (vehicle control) | n = 12 |
|  | PFOS (3 mg PFOS / kg/day) | n = 12 |
|  | VAN (8 mg vancomycin / kg/day) | n = 12 |
|  | VAN+PFOS (8 mg vancomycin / kg/day +
3 mg PFOS / kg/day) | n = 12 |



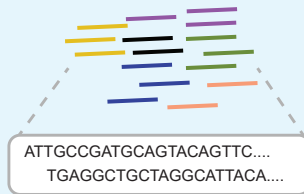
Microbiota



PFOS quantification (LC-MS)



SCFA quantification (LC-MS)



**Microbiota composition
(16S rRNA amplicon sequencing)**

- Vancomycin did not affect uptake
- PFOS concentration highest in liver
- Branched/linear PFOS ratio increased in biological samples
- Highest B/L ratio in serum

- Vancomycin impacted SCFA levels dramatically, except for propionate
- PFOS had no effect on SCFA levels

- Vancomycin changed microbiota
- PFOS increased alpha diversity
- PFOS changed beta diversity
- PFOS affected abundance of one taxon of Enterobacteriaceae when co-exposed with vancomycin