

Table S3: Compounds and reactions common to groups of lifestyle

|                   | N° Organisms | Compounds        |                   |                   | Reactions        |                   |                   |
|-------------------|--------------|------------------|-------------------|-------------------|------------------|-------------------|-------------------|
|                   |              | Mean (m)         | Union (u)         | Intersection (i)  | Mean (m)         | Union (u)         | Intersection (i)  |
| MIV               | 11           | 247              | 554               | 20                | 203              | 566               | 1                 |
| PIV               | 3            | 235              | 363               | 141               | 188              | 327               | 91                |
| PIH               | 2            | 304              | 422               | 187               | 267              | 408               | 126               |
| <b>Intra</b>      | <b>16</b>    | <b>252</b>       | <b>647</b>        | <b>19</b>         | <b>209</b>       | <b>705</b>        | <b>1</b>          |
| <b>% Intra</b>    | <b>100%</b>  | <b>m/u = 39%</b> | <b>i/m = 8%</b>   | <b>i/u = 3%</b>   | <b>m/u = 30%</b> | <b>i/m = 0.5%</b> | <b>i/u = 0.1%</b> |
| MCAV              | 2            | 502              | 656               | 348               | 493              | 682               | 304               |
| PCAH              | 15           | 595              | 1491              | 67                | 598              | 1716              | 17                |
| <b>CA</b>         | <b>17</b>    | <b>584</b>       | <b>1496</b>       | <b>67</b>         | <b>585</b>       | <b>1725</b>       | <b>17</b>         |
| <b>% CA</b>       | <b>100%</b>  | <b>m/u = 39%</b> | <b>i/m = 11%</b>  | <b>i/u = 4%</b>   | <b>m/u = 34%</b> | <b>i/m = 3%</b>   | <b>i/u = 1%</b>   |
| <b>Intra+CA</b>   | <b>33</b>    | <b>423</b>       | <b>1513</b>       | <b>16</b>         | <b>403</b>       | <b>1754</b>       | <b>0</b>          |
| <b>% Intra+CA</b> | <b>100%</b>  | <b>m/u = 28%</b> | <b>i/m = 3.8%</b> | <b>i/u = 1.1%</b> | <b>m/u = 23%</b> | <b>i/m = 0%</b>   | <b>i/u = 0%</b>   |
| MEH               | 3            | 873              | 1227              | 562               | 877              | 1336              | 479               |
| CEH               | 7            | 706              | 1557              | 221               | 706              | 1750              | 128               |
| PEH               | 9            | 752              | 1520              | 254               | 773              | 1736              | 163               |
| <b>Extra</b>      | <b>19</b>    | <b>754</b>       | <b>1854</b>       | <b>186</b>        | <b>765</b>       | <b>2143</b>       | <b>94</b>         |
| <b>% Extra</b>    | <b>100%</b>  | <b>m/u = 41%</b> | <b>i/m = 25%</b>  | <b>i/u = 10%</b>  | <b>m/u = 36%</b> | <b>i/m = 12%</b>  | <b>i/u = 4%</b>   |
| FL                | 6            | 706              | 1349              | 304               | 711              | 1548              | 202               |
| <b>% FL</b>       | <b>6</b>     | <b>m/u = 52%</b> | <b>i/m = 43%</b>  | <b>i/u = 23%</b>  | <b>m/u = 46%</b> | <b>i/m = 28%</b>  | <b>i/u = 13%</b>  |
| <b>Extra+FL</b>   | <b>25</b>    | <b>743</b>       | <b>1911</b>       | <b>179</b>        | <b>752</b>       | <b>2232</b>       | <b>84</b>         |
| <b>% Extra+FL</b> | <b>100%</b>  | <b>m/u = 39%</b> | <b>i/m = 24%</b>  | <b>i/u = 9%</b>   | <b>m/u = 34%</b> | <b>i/m = 11%</b>  | <b>i/u = 4%</b>   |
| <b>Total</b>      | <b>58</b>    | <b>561</b>       | <b>1950</b>       | <b>16</b>         | <b>553</b>       | <b>2285</b>       | <b>0</b>          |
| <b>% Total</b>    | <b>100%</b>  | <b>m/u = 29%</b> | <b>i/m = 2.9%</b> | <b>i/u = 0.8%</b> | <b>m/u = 24%</b> | <b>i/m = 0%</b>   | <b>i/u = 0%</b>   |

Size of the mean, union and intersections of the compound and the reaction sets among the different lifestyle groups of bacteria.