Supplementary Table 1. Most abundant bacterial genera and proportion of samples where it dominates

|  |  |  |
| --- | --- | --- |
| King penguin | | |
| Region | Dominant genus | Proportion of samples |
| Chest | *Psychrobacter* | 7/8 |
| *Ralstonia* | 1/8 |
| Back | *Psychrobacter* | 6/8 |
| *Fusobacterium* | 1/8 |
| *Ornithobacterium* | 1/8 |
| Foot | *Psychrobacter* | 6/8 |
| *Clostridium sensu stricto 1* | 1/8 |
| Unknown | 1/8 |
| Magellan penguin | | |
| Chest | *Psychrobacter* | 7/10 |
| Unknown | 2/10 |
| *Fusobacterium* | 1/10 |
| Back | Unknown | 5/11 |
| *Psychrobacter* | 4/11 |
| *Fusobacterium* | 2/11 |
| Foot | *Psychrobacter* | 4/10 |
| Unknown | 3/10 |
| *Fusobacterium* | 2/10 |
| *Staphylococcus* | 1/10 |
| Nest | Unknown | 5/9 |
| *Arthrobacter* | 1/9 |
| *Clostridium sensu stricto 1* | 1/9 |
| *Psychrobacter* | 1/9 |
| *Vibrio* | 1/9 |