**Figure S1**

The number in the core represents the OTUs that are common to all samples (Core OTUs), and the number on the petals indicates the total OTUs of every sample minus the number of OTUs that are common to all samples.

**Figure S1:** The number in the core represents the OTUs that are common to all samples (Core OTUs), and the number on the petals indicates the total OTUs of every sample minus the number of OTUs that are common to all samples.
Figure S2: The total number of tags in the OTU of each level of classification to the kingdom, phylum, class, order, family, genus, and specie were summarized to obtain the OTU level barplot of annotation proportion of each sample. The horizontal axis is the sample name, that is, a column represents a sample, and the vertical axis is the total tags statistics in OTUs annotated at different classification levels.
**Supplemental Table 1.** Bacteria identified (top 15) in the normal adjacent tissue (NAT) samples

| Phylum            | Class                | Order             | Family              | Genus                      |
|-------------------|----------------------|-------------------|---------------------|----------------------------|
| Bacteroidetes     | Bacteroidia          | Bacteroidales     | Mycoplasmataceae    | Mycoplasma                 |
| Proteobacteria    | Mollicutes           | Mycoplasmatales   | Prevotellaceae      | Streptococcus              |
| Firmicutes        | Clostridia           | Clostridiales     | Streptococcaceae    | Bacteroides                |
| Tenericutes       | Bacilli              | Lactobacillales   | Bacteroidaceae      | Fusobacterium              |
| Actinobacteria    | Gammaproteobacteria  | Fusobacteriaales  | Fusobacteriaceae    | uncultured_bacterium       |
| Fusobacteria      | Betaproteobacteria   | Burkholderiales   | Lachnospiraceae     | uncultured                 |
| Gemmatimonadetes  | Alphaproteobacteria  | Pasteurellales    | Bacteroidales_S24_7_group | Prevotella_9              |
| Acidobacteria     | Fusobacteriia        | Enterobacteriales | Ruminococcaceae     | Alloprevotella             |
| Cyanobacteria     | Actinobacteria       | Sphingomonadales  | Pasteurellaceae     | Haemophilus                |
| Spirochaetes      | Deltaproteobacteria  | Neisseriales      | Enterobacteriaceae  | Faecalibacterium           |
| Nitrospirae       | Erysipelotrichia     | Pseudomonadales   | Porphyromonadaceae  | Escherichia_Shigella       |
| Chloroflexi       | Gemmatimonadetes     | Rhizospirillales  | Comamonadaceae      | Enterococcus               |
| Chlorobi          | Sphingobacteria      | Rhizobiales       | Neisseriaceae       | Porphyromonas              |
| Candidate_division_SR1 | Epsilonproteobacteria | Micrococcales     | Peptostreptococcaceae | Prevotella               |
| Fibrobacteres     | Acidimicrobiia       | Xanthomonadales   | Erysipelotrichaceae | Neisseria                  |