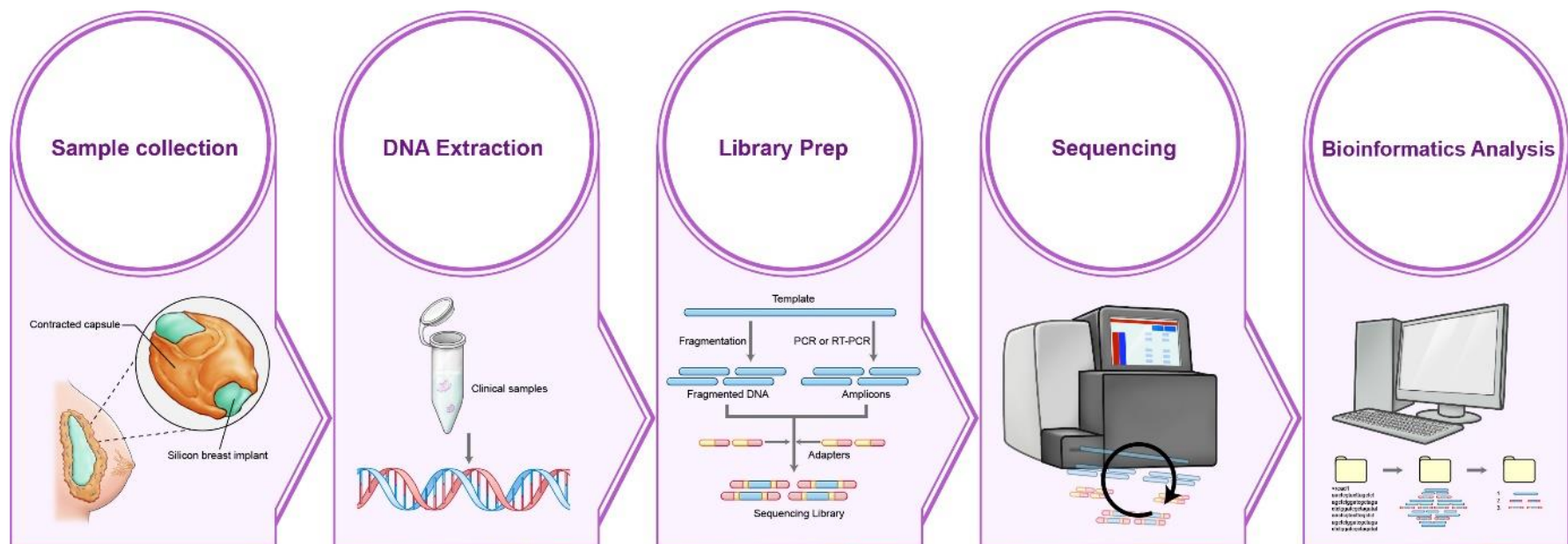




Additional file 4. Overall next-generation sequencing protocol. Tissue and skin DNA was extracted using DNeasy Blood & Tissue Kit (Qiagen, Germany) and DNeasy PowerSoil Pro Kit (Qiagen, Germany), respectively. The sequencing library was prepared by amplifying the V4–V5 region of 16S rRNA gene. Sequencing was performed with an Illumina MiSeq using a MiSeq Reagent Kit v2 (300-bp single-end reads) (Illumina, Inc., CA, USA). Sequencing reads were processed using a Quantitative Insights into Microbial Ecology 2 (QIIME2) pipeline (ver. 2021.2).