Periodontitis

Seunghoon Kim Jaewoong Lee Semin Lee

2020-11-26

Contents

1	Introduction				
	1.1	Periodo	ontitis	3	
	1.2	Riboso	omal RNA	3	
2	Mat	erials		3	
	2.1	16S rR	NA Gene Sequencing	3	
3	Methods				
	3.1	Qiime2	2	3	
		3.1.1	Denoising techniques		
		3.1.2	Taxonomy Classification		
		3.1.3	Rarefaction	3	
		3.1.4	Alpha-diversity	3	
		3.1.5	Beta-diversity	3	
		3.1.6	ANCOM	3	
	3.2	Python	Modules	3	
		3.2.1	Pandas	3	
		3.2.2	Scikit-learn	3	
		3.2.3	Matplotlib	3	
		3.2.4	Seaborn	3	
4	Resi	esults		3	
5	Disc	ussion		3	
6	Refe	rences		3	

List of Tables

List of Figures

1 Introduction

- 1.1 Periodontitis
- 1.2 Ribosomal RNA
- 2 Materials
- 2.1 16S rRNA Gene Sequencing
- 3 Methods
- 3.1 Qiime2
- 3.1.1 Denoising techniques
- 3.1.2 Taxonomy Classification
- 3.1.3 Rarefaction
- 3.1.4 Alpha-diversity
- 3.1.5 Beta-diversity
- **3.1.6 ANCOM**
- 3.2 Python Modules
- **3.2.1** Pandas
- 3.2.2 Scikit-learn
- 3.2.3 Matplotlib
- 3.2.4 Seaborn
- 4 Results
- 5 Discussion
- 6 References