

DPC 2026 - Freiburg

Distangling contaminants from true intratumoural microbial signals in pancreatic ductal adenocarcinoma – A benchmarking approach

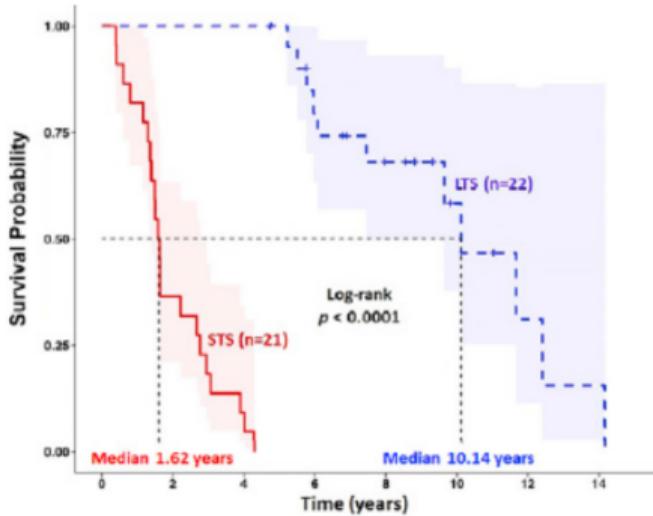
Linh Dang

2026-03-07

Contamination in Microbiome Study

Cell

Tumor Microbiome Diversity and Composition Influence Pancreatic Cancer Outcomes



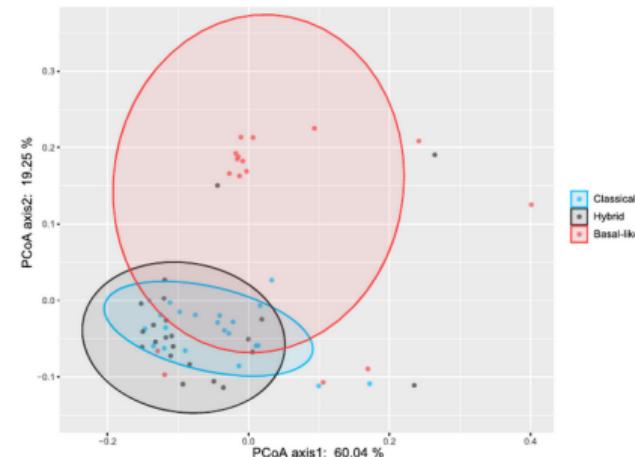
Riquelme et al. Cell 2019

Key taxa: xxx, xxx

Article | [Open access](#) | Published: 31 August 2021

Tumor microbiome contributes to an aggressive phenotype in the basal-like subtype of pancreatic cancer

Wei Guo, Yuchao Zhang, Shiwei Guo, Zi Mei, Huiping Liao, Hang Dong, Kai Wu, Haocheng Ye, Yuhang Zhang, Yufei Zhu, Jingyu Lang, Landian Hu , Gang Jin & Xiangyin Kong



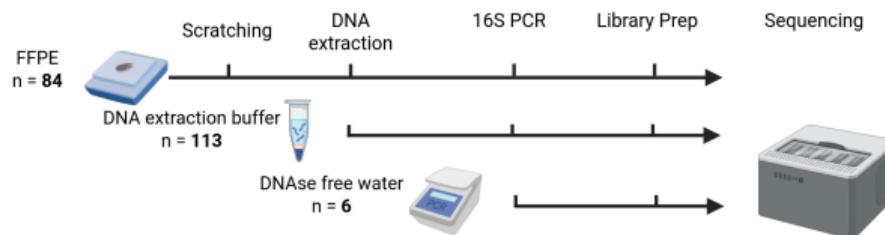
Guo Communication biology 2021

Key taxa: xxx, xxx

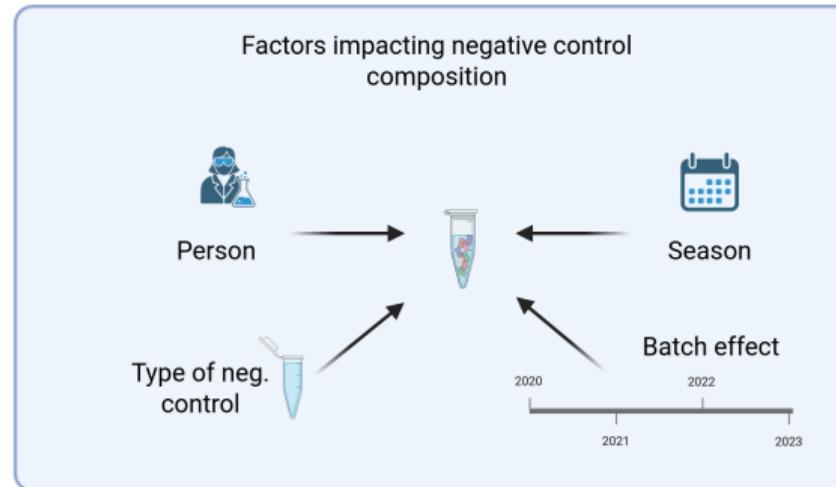
Section 1

Negative Control Survey in the Lab

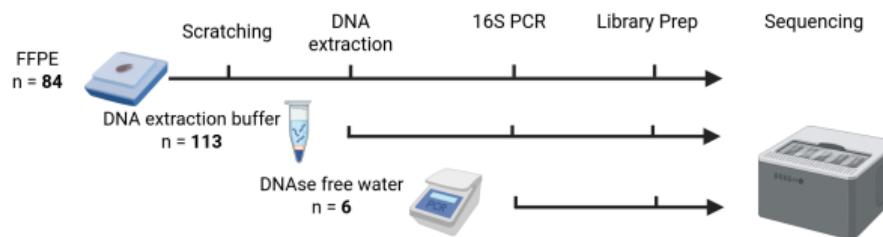
Negative Sample Collection



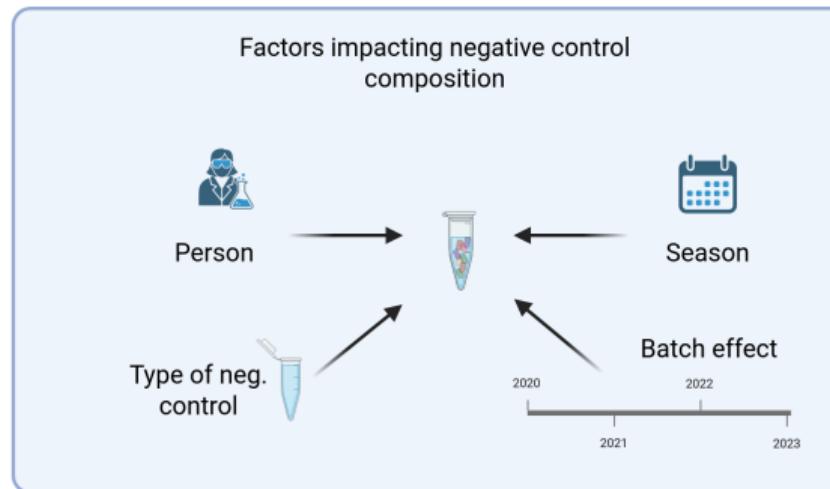
- In total 203 NCT samples over 4 years



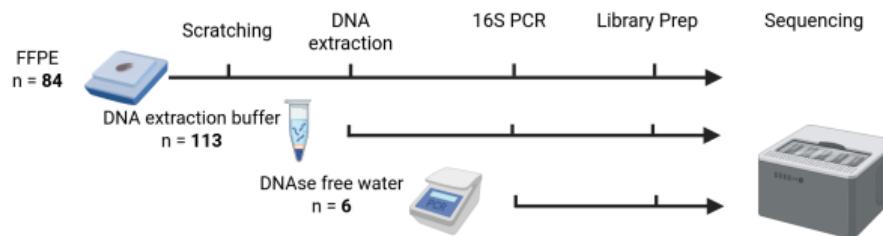
Negative Sample Collection



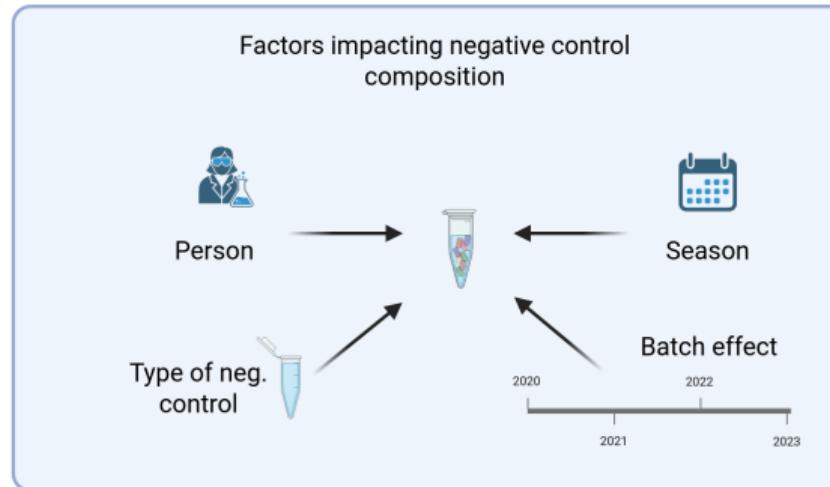
- In total 203 NCT samples over 4 years
- Dominant taxa:



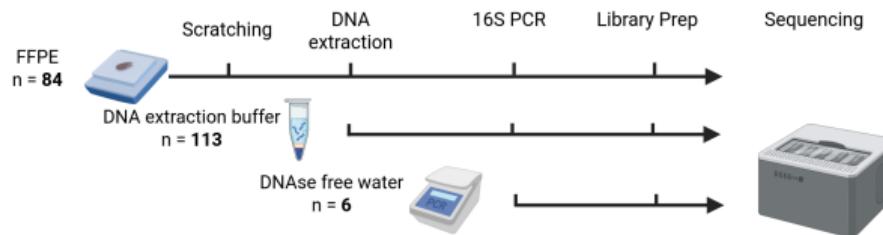
Negative Sample Collection



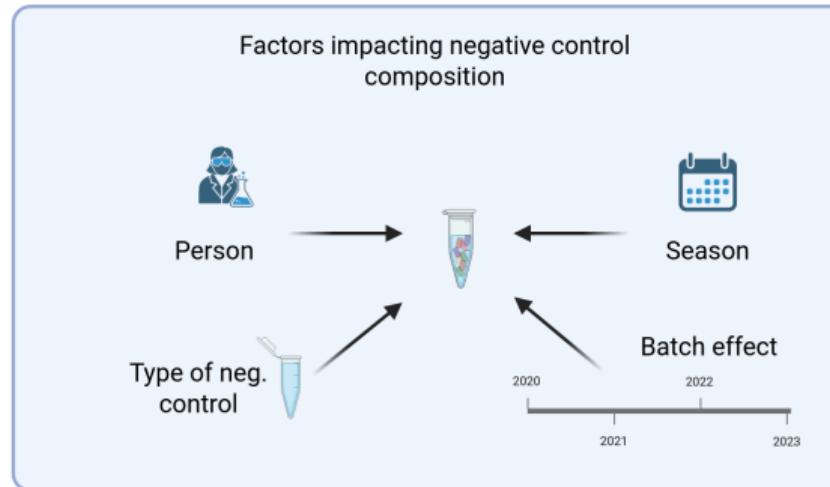
- In total 203 NCT samples over 4 years
- Dominant taxa:
 - xx 60% of samples



Negative Sample Collection



- In total 203 NCT samples over 4 years
- Dominant taxa:
 - xx 60% of samples
 - xx 70% of samples



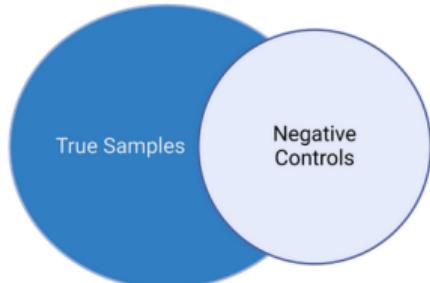
Bacterial Composition

Section 2

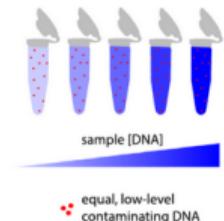
Intratumor Microbiome in PDAC and Assessment of

Decontamination Strategies

Restrictive

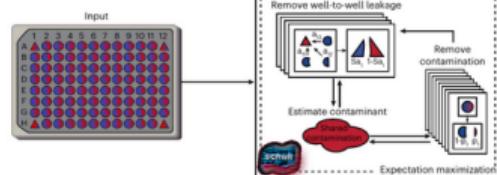


Decontam



contaminant DNA correlates inversely with total DNA

SCRuB

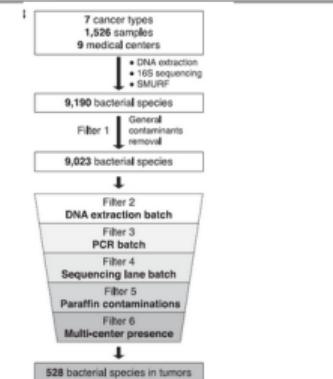


Austin et al. 2023 Nature Biotechnology

Davis et al. 2018 Microbiome



Nejman et al. 2020 Science



Experimental Design

Results

Conclusions