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## R packages used

| Package | Version | Citation |
| --- | --- | --- |
| base | 4.3.3 | R Core Team (2024) |
| Biostrings | 2.70.3 | Pagès et al. (2024) |
| cowplot | 1.1.3 | Wilke (2024) |
| dada2 | 1.30.0 | Callahan et al. (2016) |
| DECIPHER | 2.30.0 | Wright (2016) |
| decontam | 1.22.0 | Davis et al. (2017) |
| ggpubr | 0.6.0 | Kassambara (2023) |
| ggrepel | 0.9.5 | Slowikowski (2024) |
| ggside | 0.3.1 | Landis (2024) |
| ggtext | 0.1.2 | Wilke and Wiernik (2022) |
| gridExtra | 2.3 | Auguie (2017) |
| knitr | 1.45 | (**knitr20?**)…. |
| metagMisc | 0.5.0 | Mikryukov (2024) |
| microbiome | 1.24.0 | Lahti and Shetty (2012-2019) |
| phangorn | 2.12.1 | (**phangor?**)…. |
| phyloseq | 1.46.0 | McMurdie and Holmes (2013) |
| RColorBrewer | 1.1.3 | (**RColorB?**)…. |
| reshape2 | 1.4.4 | Wickham (2007) |
| rmarkdown | 2.26 | (**rmarkdo?**)…. |
| scales | 1.3.0 | Wickham, Pedersen, and Seidel (2023) |
| ShortRead | 1.60.0 | Morgan et al. (2009) |
| tidyverse | 2.0.0 | Wickham et al. (2019) |
| vegan | 2.6.4 | Oksanen et al. (2022) |

**You can paste this paragraph directly in your report:**

We used R version 4.3.3 (R Core Team 2024) and the following R packages: Biostrings v. 2.70.3 (Pagès et al. 2024), cowplot v. 1.1.3 (Wilke 2024), dada2 v. 1.30.0 (Callahan et al. 2016), DECIPHER v. 2.30.0 (Wright 2016), decontam v. 1.22.0 (Davis et al. 2017), ggpubr v. 0.6.0 (Kassambara 2023), ggrepel v. 0.9.5 (Slowikowski 2024), ggside v. 0.3.1 (Landis 2024), ggtext v. 0.1.2 (Wilke and Wiernik 2022), gridExtra v. 2.3 (Auguie 2017), knitr v. 1.45 (Xie 2014, 2015, 2023), metagMisc v. 0.5.0 (Mikryukov 2024), microbiome v. 1.24.0 (Lahti and Shetty 2012-2019), phangorn v. 2.12.1 (Schliep 2011; Schliep et al. 2017), phyloseq v. 1.46.0 (McMurdie and Holmes 2013), RColorBrewer v. 1.1.3 (Neuwirth 2022), reshape2 v. 1.4.4 (Wickham 2007), rmarkdown v. 2.26 (Xie, Allaire, and Grolemund 2018; Xie, Dervieux, and Riederer 2020; Allaire et al. 2024), scales v. 1.3.0 (Wickham, Pedersen, and Seidel 2023), ShortRead v. 1.60.0 (Morgan et al. 2009), tidyverse v. 2.0.0 (Wickham et al. 2019), vegan v. 2.6.4 (Oksanen et al. 2022).

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