

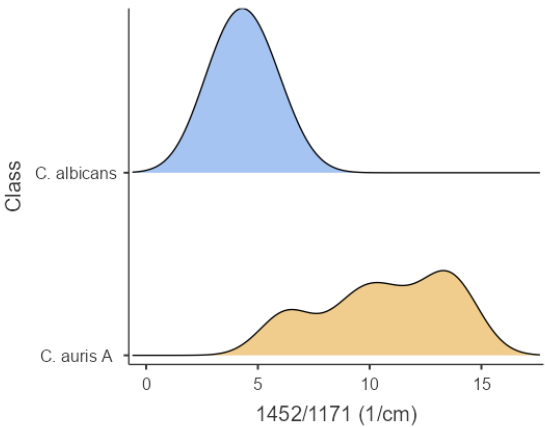
Characterization and Differentiation of *Candida auris* on Dixon's Agar Using Raman Spectroscopy

Supplementary information

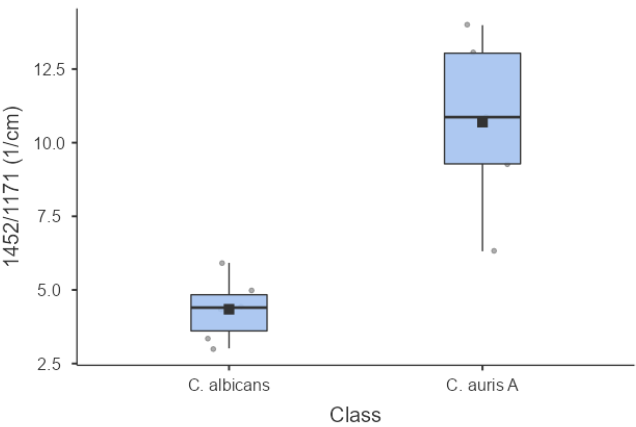
This supplementary file contains the statistical analysis of the significant Raman band ratios for all *Candida* species included in the study. These ratios, which contribute to species differentiation in the relevant PCA results, provide a molecular basis for distinguishing between the different *Candida* species.

Descriptives

						Shapiro-Wilk	
	Class	Mean	SE	Median	SD	W	p
1452/1171 (1/cm)	<i>C. albicans</i>	4.34	0.432	4.40	1.06	0.964	0.852
	<i>C. auris</i> A	10.70	1.371	10.87	3.07	0.961	0.814



Density plot (Raman bands ratio)



Box plot (Raman bands ratio)

Independent Samples T-Test

		Statistic	df	p	Mean difference	SE difference		Effect Size
1452/1171 (1/cm)	Welch's t	-4.42	4.80	0.008	-6.35	1.44	Cohen's d	-2.77

Note. $H_a \mu_{C. albicans} \neq \mu_{C. auris A}$

Normality Test (Shapiro-Wilk)

	W	p
1452/1171 (1/cm)	0.961	0.784

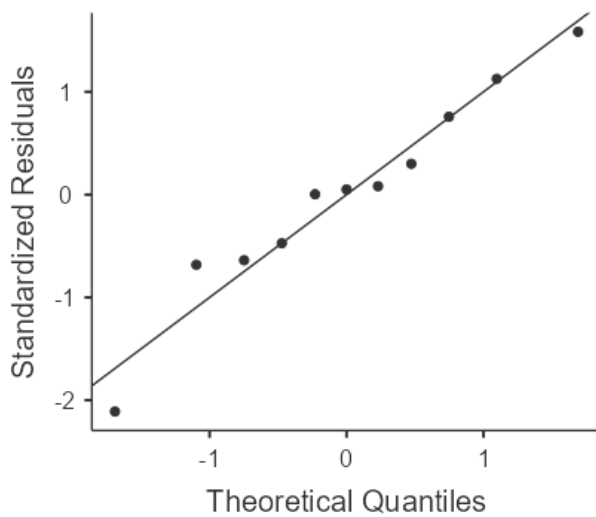
Note. A low p-value suggests a violation of the assumption of normality

Homogeneity of Variances Test (Levene's)

	F	df	df2	p
1452/1171 (1/cm)	4.65	1	9	0.059

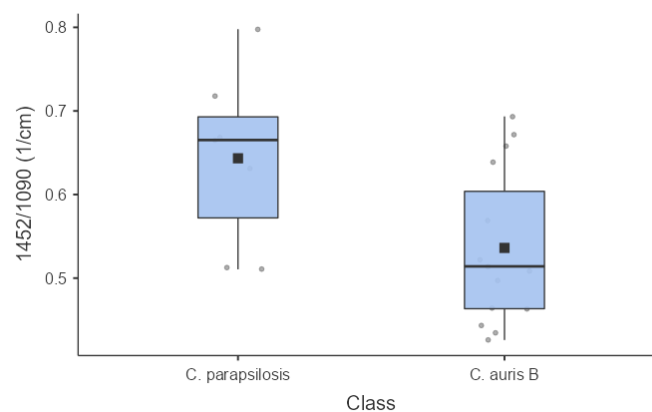
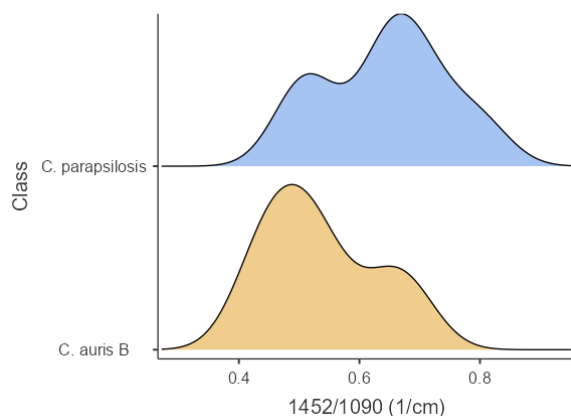
Note. A low p-value suggests a violation of the assumption of equal variances

Q-Q plot



Descriptives

						Shapiro-Wilk	
	Class	Mean	SE	Median	SD	W	p
1452/1090 (1/cm)	<i>C. parapsilosis</i>	0.643	0.0394	0.665	0.1044	0.928	0.538
	<i>C. auris B</i>	0.536	0.0233	0.514	0.0903	0.903	0.106



Independent Samples T-Test

		Statistic	df	p	Mean difference	SE difference	Effect Size
1452/1090 (1/cm)	Welch's t	2.34	10.4	0.040	0.107	0.0458	Cohen's d 1.10

Note. $H_a \mu_{C. parapsilosis} \neq \mu_{C. auris B}$

Normality Test (Shapiro-Wilk)

	W	p
1452/1090 (1/cm)	0.942	0.217

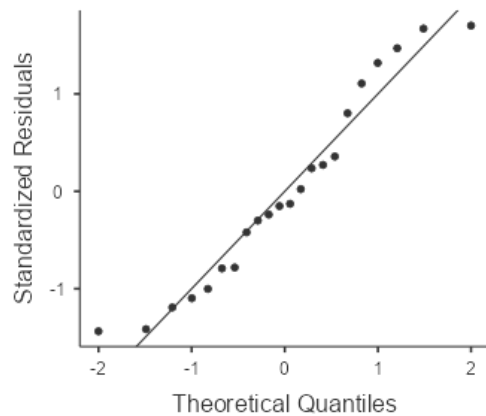
Note. A low p-value suggests a violation of the assumption of normality

Homogeneity of Variances Test (Levene's)

	F	df	df2	p
1452/1090 (1/cm)	0.0444	1	20	0.835

Note. A low p-value suggests a violation of the assumption of equal variances

Q-Q plot



References

The jamovi project (2022). *jamovi*. (Version 2.3) [Computer Software]. Retrieved from <https://www.jamovi.org>.

R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.1) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2022-01-01).

Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from <https://cran.r-project.org/package=car>.