S1. Cohen's kappa agreement coefficient. Agreement according to (Landis & Koch, 1977).
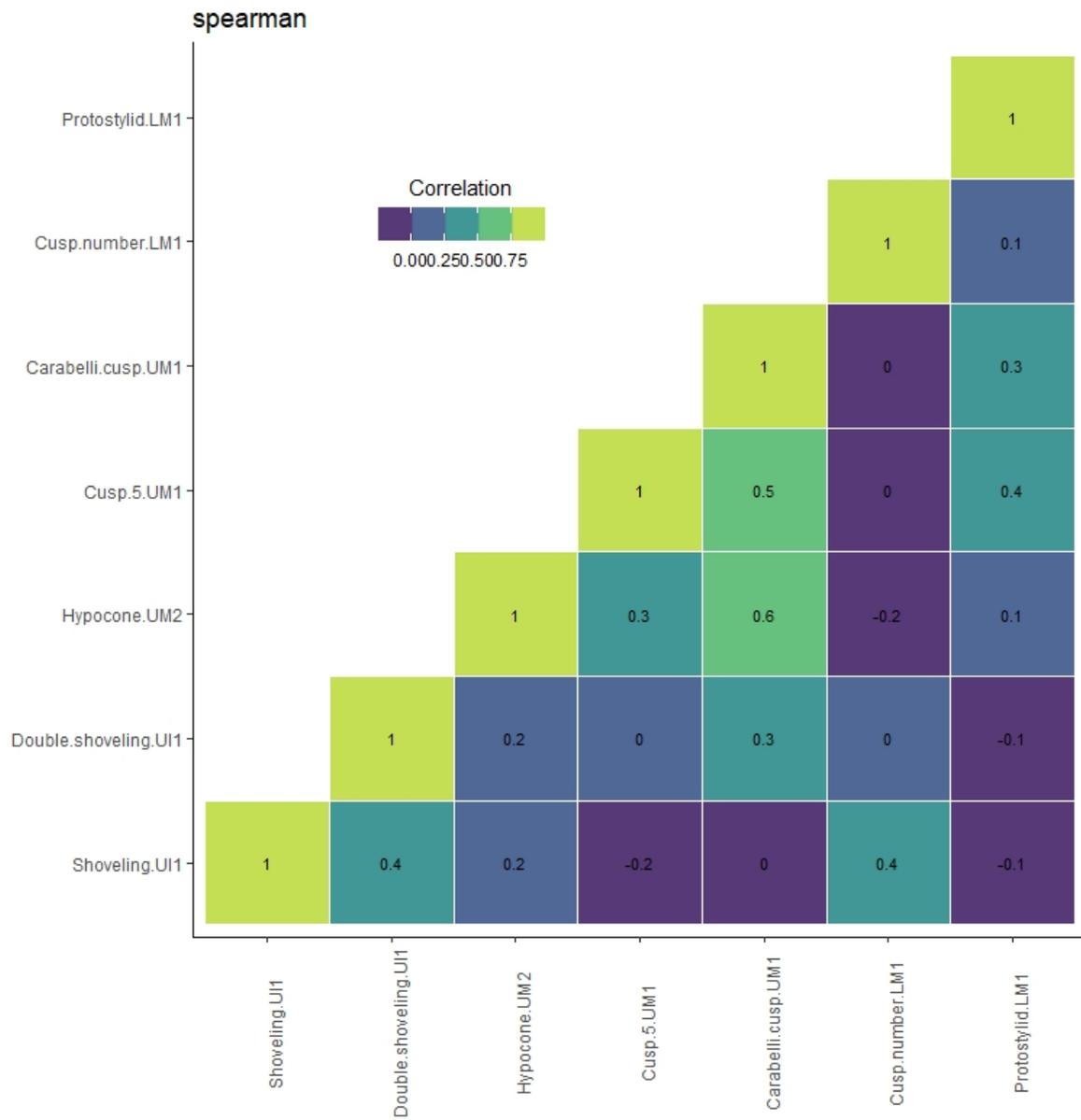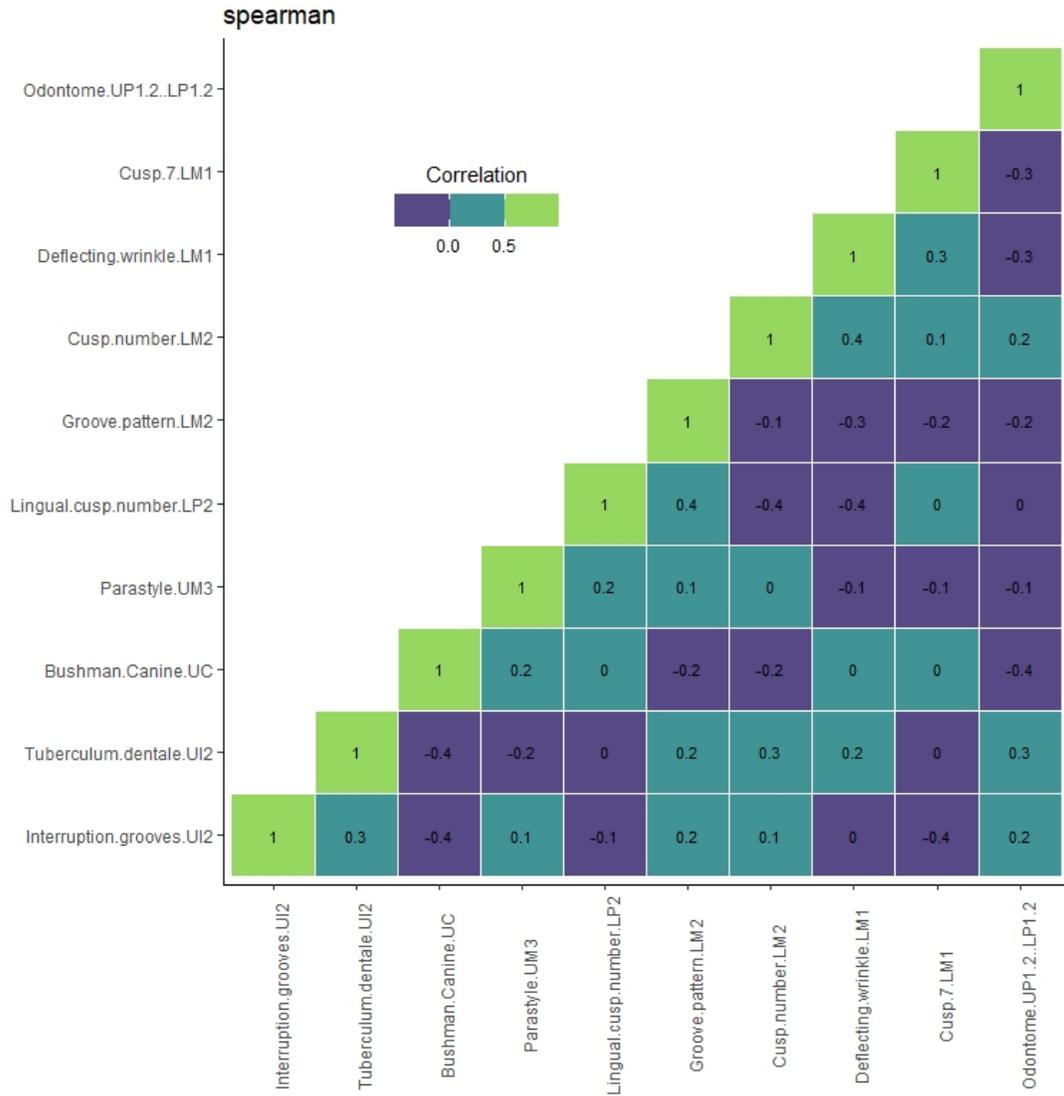
Variable	Grade Threshold	N	Kappa	Agreement
Shoveling UI1	3	109	0.89	Almost perfect agreement
Double Shoveling UI1	2	109	0.92	Almost perfect agreement
Interruption Groove UI2	1	102	0.70	Substantial agreement
Tuberculum Dentale UI2	2	102	0.62	Substantial agreement
Bushman UC	1	123	0.83	Almost perfect agreement
Accessory cusps UP1	1	124	0.69	Substantial agreement
Accessory ridges UP2	2	116	0.68	Substantial agreement
Metaconule UM1	1	142	0.53	Moderate agreement
Carabelli cusp UM1	3	142	0.61	Substantial agreement
Hypocone UM2	3	127	0.64	Substantial agreement
Parastyle UM3	2	81	0.63	Substantial agreement
Lingual cusp number LP2	2	129	0.65	Substantial agreement
Deflecting Wrinkle LM1	2	147	0.69	Substantial agreement
Anterior Fovea LM1	2	147	0.54	Moderate agreement
Protostylid LM1	2	147	0.56	Moderate agreement
Entoconulid LM1	1	147	0.73	Substantial agreement
Metaconulid LM1	1	147	0.63	Substantial agreement
Groove Pattern LM2	Y	129	0.78	Substantial agreement
Hypoconulid LM2	1	129	0.74	Substantial agreement
Odontome UP/LP	1	500	0.77	Substantial agreement

Landis, J., & Koch, G. (1977). The measurement of observer agreement for categorical data. *Biometrics*.

S2.1. Spearman correlation test using data set A) only wear-biased traits.

S2.2. Spearman correlation test using data set B) only unbiased traits.

S2.3. Spearman correlation using data set C) with biased and unbiased traits