

Table 3. Lotus vs ANPDB

Metric	LOTUS	ANPDB	Ratio
Total compounds in database	150 753 (Archaeplastida)	11392	13.2 ×
Unique compounds with InChIKey	150753	9256	16.3 ×
Unique plant species	25213	1 895 (after split)	13.3 ×
Geographic scope	Global, attribution-based	African endemic-focused	—
Compounds in ChEMBL Pf whole-cell intersection	2034	209	9.7 ×
Compounds attributable to positive_strict (≥ 2 sources)	713 (S6 pan-African) / 416 (native)	37	11.2 × (S6)
Positive_strict species covered (of 45)	37 (82%)	15 (33%)	—
Pan-tropical canonical species coverage (e.g. Azadirachta, Carica, Cinchona, Zingiber)	high	low or absent	—
Statistical power for H1 (n_positive)	89 (S6) / 41 (native)	6	14.8 ×
H1 odds ratio (positive_strict, adjusted)	0.46 [0.28–0.77]	0.56 [0.09–3.39]	—
H1 p-value	0.003 (S6) / 0.023 (native)	0.53	—
Statistical decision ($\alpha = 0.05$)	REJECT in inverse direction	Insufficient power	—
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