



Supplements

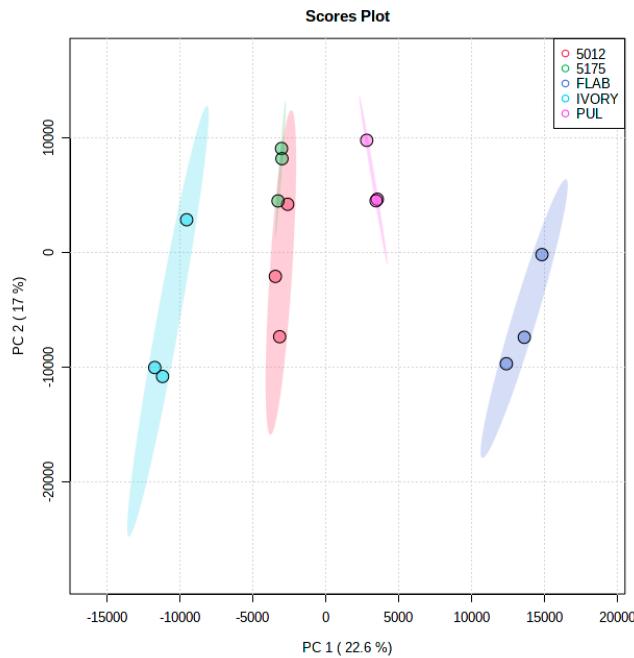


Figure S1. PCA of analyzed genus *Pleurotus* samples (5012 - *P. opuntiae* 5012; 5175 - *P. ostreatus* 5175 Florida; FLAB - *P. flabellatus* 5013; IVORY - *P. ostreatus* Sylvan Ivory; PUL – *P. pulmonarius* KZ50)

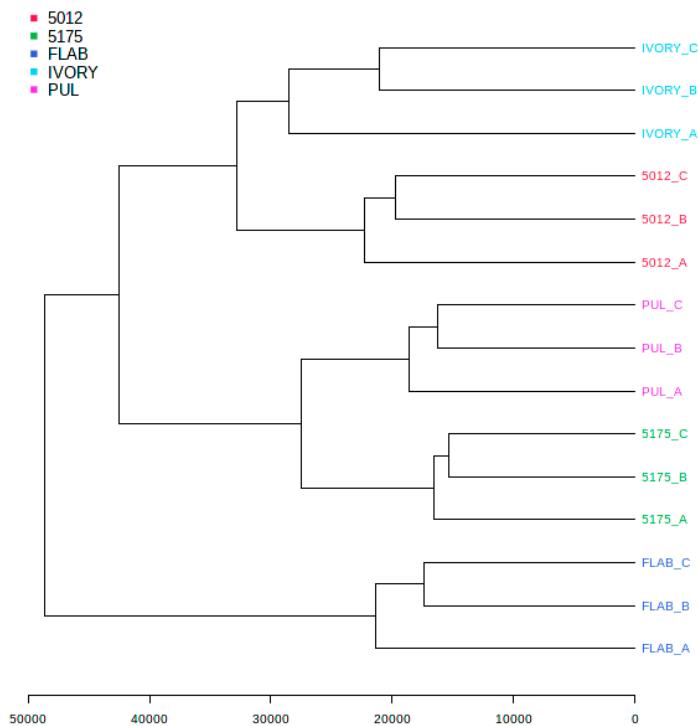


Figure S2. Cluster analysis of analyzed genus *Pleurotus* samples (5012 - *P. opuntiae* 5012; 5175 - *P. ostreatus* 5175 Florida; FLAB - *P. flabellatus* 5013; IVORY - *P. ostreatus* Sylvan Ivory; PUL – *P. pulmonarius* KZ50)

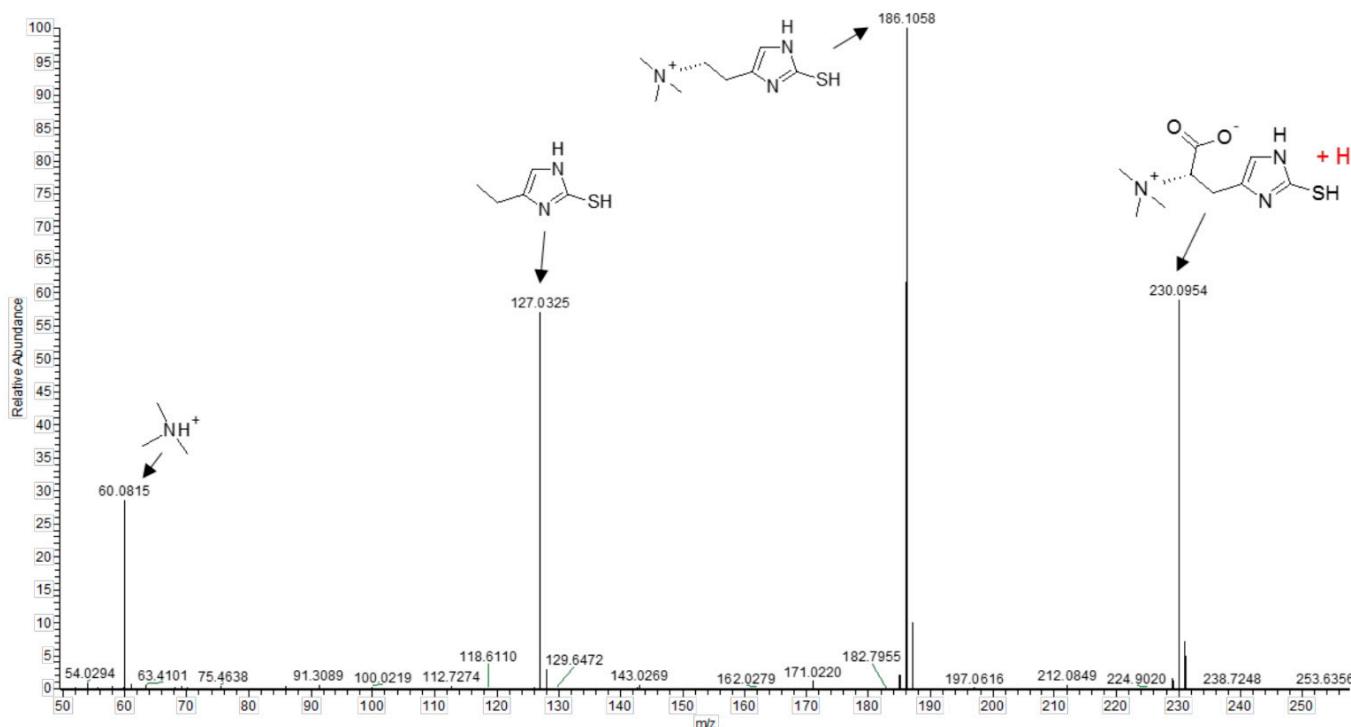


Figure S3. Annotated HPLC-HRMS fragment spectrum of ergothioneine

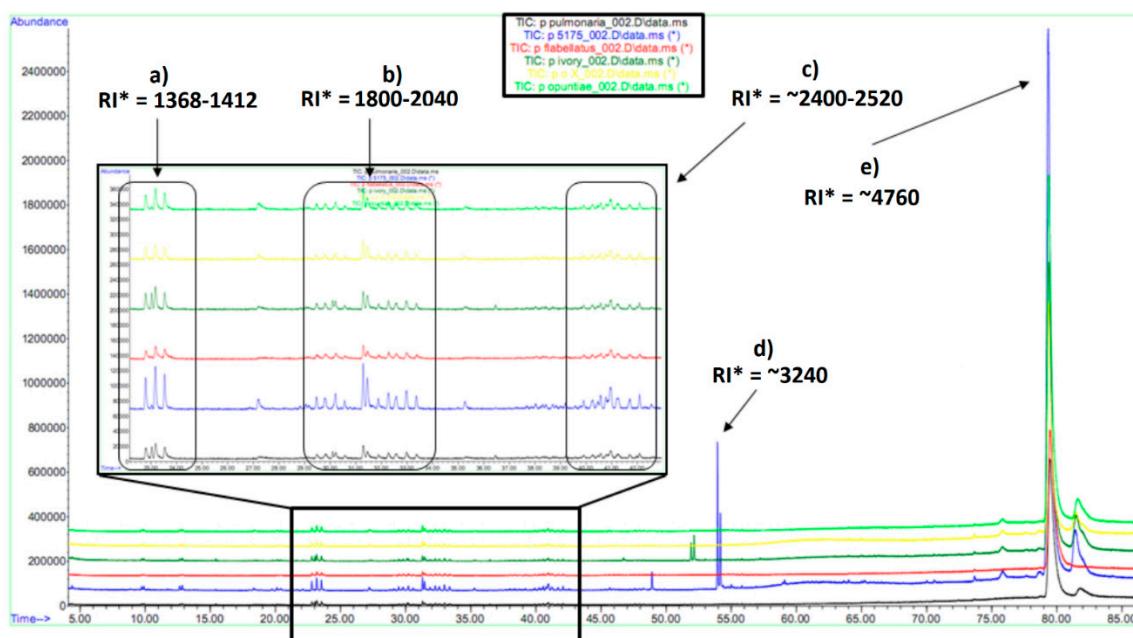


Figure S4. Tentatively annotated GC chromatogram a) isomers of 2-butyl-2-octanol b) dodecanol derivatives c) 2-hexyl-1-octanol derivatives d) octadecadienic acid derivatives e) ergosterol

Table S1. Mass spectrometer parameters settings.

Ion source settings			Acquisition settings	
	ESI	APCI	ESI	APCI
End plate offset (V)	500	500	Mass range (<i>m/z</i>)	60 – 1,500
Capillary voltage (V)	2,500	4,000	Scan rate (Hz)	1
Corona (nA)	-	4,000	Resolution	> 60,000
Nebulizer gas (Bar)	2.0	2.5		> 60,000
Dry gas (L/min)	5.0	4.0		
Dry temperature (°C)	300	250		
Vaporizer temperature (°C)	-	450		