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Functional Plant Biology

Supplementary Material

Photosynthesis, ionomics and metabolomics of the host–hemiparasite association *Acacia gerrardii*–*Viscum schimperi*

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Table S1: Untargeted metabolites identified in the methanol extracts of leaves from the parasitic plant *Viscum schimperi* and its host tree *Acacia gerrardii* by ultra-high performance liquid chromatography quadrupole time-of-flight mass spectrometry (UHPLC-Q-TOF-MS2). The chosen sample groups were leaves from the host plant and located before the haustorium from the root (HP-BH), leaves from the parasitic plant (PP), and leave from the host plant and located after the haustorium from the root (HP-AH).

Molecular formula	Molecular weight	Identified compound name	Chemical class	Molecular formula	Molecular weight	Identified compound name	Chemical class
HP-BH, PP and HP-AH							
C10H7NO4	205.03699	Xanthurenic acid	Carboxylic acids	C6H10O	98.0728	Cyclohexanone	Ketones
C11H12O4	208.07285	6-methoxymellein	Phytoalexins	C7H8O3	140.04692	2-Methoxyresorcinol	Phenols
C11H15NO	177.11461	(+/-)-Metamfepramone	ketones	C8H13NO2	155.09412	Arecoline	Vitamins
C12H14N2O2	218.1048	N-Acetylserotonin	Amines	C7H11N	109.08875	Isocyanocyclohexane	Nitriles
C8H17NO2	159.12554	8-Aminooctanoic acid	Carboxylic acids	C7H13N	111.10446	N-Ethyl-2-pentyn-1-amine	Unknown
C15H12N2O	236.09403	Carbamazepine	Cytochromes	C7H15N	145.10994	2-Aminoheptanoic acid	Amino acids
C18H36O5	332.25494	Phloionolic acid	Fatty acids	C7H16N4O2	188.12668	Tilarginine	Amino acids
C27H28N2O4	444.20354	6-Methoxy-4-methyl-5-[[6-(1-naphthyl)hexyl]oxy]-8-nitroquinoline	Unknown	C7H6F3N3S	221.02306	5-(Trifluoromethyl)-2-pyridinyl carbamimidothioate	Organofluorines
C8H8O	120.05707	Acetophenone	Ketones	C8H15NO2	157.10971	tranexamic acid	Carboxylic acids
C30H46O2	438.3481	Urs-20(30)-ene-3,16-dione	Unknown	C8H6	102.04657	Phenylacetylene	Alkynes
C4H8N2O3	132.05306	Asparagine	Amino acids	C9H15NO5	217.09422	Diethyl acetamidomalonate	Carboxylic acids
C5H11N3O2	145.08458	g-Guanidinobutyrate	Amidines	C9H16O2	156.11467	Non-2-enoic acid	Unknown
C5H6O2	98.03642	Furfuranol	Furans	C9H18N2O	170.14145	Dimethylaminopropyl Methacrylamide	Carboxylic acids
C5H7Br	145.9726	4-Bromocyclopentene	Unknown				
PP and HP-BH							
C7H6ClN3OS	214.99243	2-(Chloromethyl)-7-methyl-5H-[1,3,4]thiadiazolo[3,2-a]pyrimidin-5-one	Unknown	C29H35N3O4	489.2614	tert-Butyl 3-[(3-benzoyl-2-tert-butyl-1-methyl-5-oxo-4-imidazolidinyl)methyl]-1H-indole-1-	Unknown

C ₂ H ₅ O ₆ P	155.98287	phosphoglycolate	Carboxylic acids	C ₇ H ₁₆ N ₂	128.13096	2-(2-Aminoethyl)-1-methylpyrrolidine	Pyrrolidines
C ₂ H ₈ N ₂ O ₂ S	124.0303	Taurinamide	Alkanes	C ₁₇ H ₂₄ O ₄	292.16634	Formaldomedone	Unknown
PP and HP-AH							
C ₁₀ H ₁₂ O ₃	180.078	Propylparaben	Parabens	C ₂₁ H ₃₄ O ₃	334.24959	(+/-)-CP 47,497-C7-Hydroxy metabolite	Arene
C ₁₂ H ₁₁ NO	185.08344	N-1-naphthylacetamide	Hazard Classe	C ₂₆ H ₅₀ NO ₇ P	519.33104	1-Linoleoyl-2-Hydroxy-sn-glycero-3-PC	Unknown
C ₁₄ H ₁₅ O ₄ P	278.0699	4-Methyl-2-(4-methylphenoxy)phenylphosphonic acid	Unknown	C ₃₁ H ₃₀ N ₁₀ O ₄	606.24455	(E,E)-2,2'-(1,5-Dioxo-1,5-pentanediy)bis{N-[4-(2-phenylhydrazino)phenyl]diazene-carboxamide}	Unknown
C ₁₃ H ₂₄ O ₂	212.17695	2-Tridecenoic acid	Fatty acids	C ₉ H ₁₀ O ₄	182.05754	Syringaldehyde	Aldehydes
C ₅ H ₁₁ NO ₃	133.07349	N-BOC-hydroxylamine	Hazard Classe	C ₅ H ₁₂ NO ₄ P	181.04999	Trimethyl acetylphosphorimidate	Unknown
C ₁₄ H ₁₈ N ₂ O ₅	294.12044	Methyl alpha-aspartylphenylalaninate	Peptides	C ₆ H ₁₁ NO	113.08372	Nipam	Carboxylic acids
C ₁₄ H ₂₂	190.17145	5,9-Tetradecadiyne	Essential oils	C ₆ H ₁₄ N ₂ O	130.11025	N-Acetylputrescine	Amines
C ₁₅ H ₁₄ O ₄	258.08821	luvangetin	Coumarins	C ₆ H ₁₄ N ₂ O ₂	146.1051	DL-Lysine	Peptide hydrolases
C ₁₆ H ₁₉ N ₃ O ₅	333.13146	Oglufanide	Peptides	C ₁₇ H ₃₂ O ₄	300.22896	Tetradecylmalonic acid	Unknown
C ₁₇ H ₂₁ N ₃ O ₅	347.14687	4-(1-Butyl-3-hydroxy-2-oxo-3-pyrrolidinyl)-5-(3-methyl-5-isoxazolyl)-1H-pyrrole-2-carboxylic acid	Unknown	C ₈ H ₁₈ N ₄	170.15262	(3E,4E)-3,4-Diimino-N,N'-dimethyl-1,6-hexanediamine	Unknown
C ₁₇ H ₃₂ N ₆ O ₂	352.25997	α-Linolenoyl ethanolamide	Alkynes	C ₈ H ₉ NO ₃	167.05776	Pyridoxal	Vitamins