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# Effects of *Ficus carica* L. Water Extract on *Taxus cuspidata* Sieb. et Zucc. Growth

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Table S1 Chemicals in *F. carica* root water extract

Type of compound	RT (min)	Formula	[M-H]-/ [M+H] <sup>+</sup>	Main Ms/Ms product ions	Proposed compound	Theoretical Mass (m/z)	Measured value (m/z)	Error (×10 <sup>-6</sup> )
Coumarins	3.94	C <sub>9</sub> H <sub>6</sub> O <sub>4</sub>	179.0331[M+H] <sup>+</sup>	151.0382,133.0281,123.0437,105.0338, 95.0492,77.0388,68.9974	Esculetin	179.0339	179.0332	-3.91
	4.88	C <sub>11</sub> H <sub>6</sub> O <sub>4</sub>	203.0332[M+H] <sup>+</sup>	75.0232,91.0543,95.0494,129.0331, 131.0487,147.0433,175.0383	Xanthotoxol	202.0266	202.0259	-3.47
	4.89	C <sub>11</sub> H <sub>6</sub> O <sub>4</sub>	203.0330[M+H] <sup>+</sup>	175.0384,159.0433,147.0434,141.0692, 131.0486,129.0331,91.0543	Bergaptol	203.0339	203.0330	-4.43
	5.57	C <sub>9</sub> H <sub>6</sub> O <sub>3</sub>	163.0384[M+H] <sup>+</sup>	53.0391,65.0389,89.0386,95.0492, 107.0490,119.0489	Umbelliferone	162.0317	162.0311	-3.70
	6.77	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>	229.0852[M+H] <sup>+</sup>	213.0537,183.3129,157.0642,128.0615, 115.0539,99.8178,76.3746	Angenomalin	229.0859	229.0852	-3.06

	6.83	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>	229.0851[M+H] <sup>+</sup>	61.7412,73.2895,87.3019,115.0539, 128.0615,157.0648,213.0544	Trioxsalen	228.0786	228.0778	-3.51
	8.17	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>	247.0955[M+H] <sup>+</sup>	91.0543,119.0488,147.0433,175.0381, 185.0589	Nodakenetin	246.0892	246.0881	-4.42
	8.26	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>	247.0952[M+H] <sup>+</sup>	229.0849,213.0538,175.0381,147.0433, 115.0540,91.0544,68.9975	Columbianetin	247.0965	247.0958	-2.83
	9.63	C <sub>11</sub> H <sub>6</sub> O <sub>3</sub>	187.0382[M+H] <sup>+</sup>	159.0436,143.0486,131.0486,115.0540, 105.0445,95.0492,89.0387	Psoralen	187.0390	187.0383	-3.74
	11.21	C <sub>12</sub> H <sub>8</sub> O <sub>4</sub>	217.0487[M+H] <sup>+</sup>	202.0251,174.0302,161.0588,146.0354, 131.0486,118.0411,89.0386	Bergapten	217.0495	217.0490	-2.30
	25.70	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub>	356.1623[M+H] <sup>+</sup>	84.0734, 116.9266, 203.7526, 280.7447, 321.9117	Rutamarin	356.1624	356.1623	-2.81
	35.59	C <sub>11</sub> H <sub>10</sub> O <sub>3</sub>	189.0554[M-H] <sup>-</sup>	64.4360,78.9568,84.1685,91.0164, 108.0191,136.5071,165.0006	7- Ethoxycoumarin	190.0630	190.0627	-1.58
Terpenoids	0.73	C <sub>13</sub> H <sub>16</sub> N <sub>4</sub> O <sub>6</sub>	325.1115[M+H] <sup>+</sup>	326.1148, ,336.5794,337.1090,342.1379, 671.1952	Furaltadone	324.1069	324.1042	8.33

0.75	C <sub>3</sub> H <sub>6</sub> N <sub>6</sub> O <sub>5</sub>	205.0327[M-H] <sup>-</sup>	253.0071,337.0745,381.0810,399.0905, 411.0713,413.0871	1,3-Dinitro-5-nitroso-1,3,5- triazinane	206.0399	206.0394	-2.43
5.61	C <sub>31</sub> H <sub>32</sub> N <sub>4</sub> O <sub>9</sub>	605.2177[M+H] <sup>+</sup>	136.1484,257.1786,280.0075,337.0032	Cotamine phthalate	604.2057	604.2104	7.78
7.23	C <sub>25</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub>	431.1651[M+H] <sup>+</sup>	90.9767,184.0880,259.6032,280.0815, 336.7244,410.4415	Zanamivir Amine Triacetate Methyl Ester	430.1587	430.1579	-1.86
10.57	C <sub>28</sub> H <sub>22</sub>	359.1808[M+H] <sup>+</sup>	96.0181,143.3853,203.6616,234.1221, 257.1088,341.1702	9,10-Bis(4- methylphenyl)anthracene	358.1721	358.1735	3.91
11.20	C <sub>9</sub> H <sub>3</sub> N <sub>3</sub> O <sub>3</sub>	202.0250[M+H] <sup>+</sup>	63.0233,73.3274,89.0388,118.0408, 174.0300,192.8612	1,3,5-Triisocyanatobenzene	201.0174	201.0178	1.99
15.30	C <sub>26</sub> H <sub>26</sub> O <sub>9</sub>	483.1605[M+H] <sup>+</sup>	64.4198,136.3201,280.0822,335.9747,393.1639	Gilvocarcin M	482.1577	482.1533	-9.13
26.91	C <sub>38</sub> H <sub>49</sub> N <sub>3</sub> O <sub>5</sub>	628.3715[M+H] <sup>+</sup>	114.5062,135.0027,280.3070,352.4264, 371.1017,471.0936	Bemotrizinol	627.3672	627.3644	-4.46
27.27	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	391.2825[M+H] <sup>+</sup>	336.7654,256.8141,204.0550,169.9946, 114.5522,91.9828,73.2461	Diocetyl phthalate	390.2770	390.2743	-6.92
27.76	C <sub>25</sub> H <sub>35</sub> NO <sub>4</sub>	412.2679[M-H] <sup>-</sup>	64.4214,97.5916,164.9604,280.0219, 338.3460	Norbuprenorphine	413.2566	413.2603	8.95

	29.56	C <sub>30</sub> H <sub>46</sub> O <sub>3</sub>	455.3166[M+H] <sup>+</sup>	437.2197,414.2672,406.5328,333.3244, 280.4273,178.3247,136.3287	Wilforlide A	455.3519	455.3508	-2.42
	31.46	C <sub>15</sub> H <sub>22</sub> O <sub>4</sub>	265.1453[M-H] <sup>-</sup>	97.3724,148.0502,164.5571,197.4670, 203.5123,220.7796,257.2847	Zinniol	266.1518	266.1526	3.01
	34.61	C <sub>17</sub> H <sub>26</sub> O <sub>5</sub>	309.1712[M-H] <sup>-</sup>	64.4856,84.1474,97.5929,134.9214, 165.1137,227.2727	Decyl Gallate	310.1780	310.1785	1.61
	0.69	C <sub>11</sub> H <sub>6</sub> O <sub>6</sub>	235.0166[M+H] <sup>+</sup>	257.0023,272.9760,365.1039,381.0773, 415.0917,491.0158,506.9897	4-Azido-3,5- dinitrobenzonitrile	234.0138	234.0131	-2.99
	0.90	C <sub>21</sub> H <sub>16</sub> O <sub>6</sub>	365.1042[M+H] <sup>+</sup>	97.5559,136.0690,185.0413,203.0510, 257.5527,336.6956	Justicidin B	364.0947	364.0958	3.02
Alkaloids	0.93	C <sub>4</sub> H <sub>2</sub> N <sub>6</sub> O <sub>5</sub>	215.0153[M+H] <sup>+</sup>	236.9973,300.1179,328.1735,451.0054	Azoxifyroxan	214.0087	214.0080	-3.27
	4.28	C <sub>22</sub> H <sub>26</sub> O <sub>12</sub>	483.1449[M+H] <sup>+</sup>	484.1491,493.1663,498.1287,502.1594, 501.1559,505.1274,	Catalposide	482.1413	482.1378	-7.26
	4.98	C <sub>32</sub> H <sub>18</sub> N <sub>8</sub>	515.1720[M+H] <sup>+</sup>	97.6047,164.9198,229.5703,277.1387, 335.6916,453.1685,458.7985	Phthalocyanine	514.1654	514.1647	-1.36

5.55	C <sub>20</sub> H <sub>24</sub> O <sub>10</sub>	423.1253[M-H] <sup>-</sup>	459.1024,469.1302,470.1341,491.1127, 487.1243,537.1177,	4-[4-(3-Phenyl-2- quinoxaliny1)phthalonitrile	424.1324	424.1324	-0.02
5.93	C <sub>30</sub> H <sub>22</sub> N <sub>4</sub> O <sub>4</sub>	501.1550[M-H] <sup>-</sup>	108.0192,152.0090,167.0323,203.3555, 257.8456,336.2625,443.2260,483.0473	Adozelesin	502.1641	502.1622	-3.78
6.07	C <sub>15</sub> H <sub>18</sub> O <sub>4</sub>	263.1267[M+H] <sup>+</sup>	245.1164,246.1197,252.0165,256.2625, 263.0905,264.1301	Helenalin	262.1205	262.1195	-3.82
7.15	C <sub>19</sub> H <sub>20</sub> N <sub>6</sub> O <sub>6</sub>	429.1499[M+H] <sup>+</sup>	73.3219,99.9389,159.3115,280.2348, 336.4270	Azido-Thalidomide	428.1444	428.1426	-4.20
7.30	C <sub>18</sub> H <sub>26</sub> N <sub>2</sub> O <sub>9</sub>	415.1714[M+H] <sup>+</sup>	97.5952,119.0851,165.0083,203.5988, 283.8736,302.1422	Nicametate citrate	414.1638	414.1641	0.72
7.38	C <sub>37</sub> H <sub>28</sub> O <sub>10</sub>	633.1777[M+H] <sup>+</sup>	73.2979,136.3197,203.6463,280.0282, 331.0996,430.3708,659.0159	Pyranoamentoflavone	632.1683	632.1705	3.48
8.11	C <sub>18</sub> H <sub>22</sub> N <sub>2</sub> O <sub>10</sub>	427.1339[M+H] <sup>+</sup>	86.7829,164.9422,230.0534,257.9796, 280.0273	Nitrophenyl 2-acetamido- 3,6-di-O-acety-2-deoxyl- beta-D-glucopyranoside	426.1274	426.1266	-1.88
13.89	C <sub>19</sub> H <sub>38</sub> N <sub>2</sub> O <sub>3</sub>	343.2942[M+H] <sup>+</sup>	344.2977,355.1502,359.2180,365.2754,	N-Pentadecyl-L-asparagine	342.2882	342.2862	-5.84

366.2796,367.2828							
13.94	C <sub>16</sub> H <sub>35</sub> NO <sub>2</sub>	274.2727[M+H] <sup>+</sup>	88.0758,106.0861,136.3367,182.3171, 230.2467,256.2624	Lauryldimethylammonium Acetate	273.2668	273.2654	-5.12
14.03	C <sub>14</sub> H <sub>31</sub> NO	230.2470[M+H] <sup>+</sup>	57.0704,71.0858,85.1010,162.4451, 212.2366	Lauryldimethylamine oxide	229.2406	229.2397	-3.93
16.29	C <sub>18</sub> H <sub>39</sub> NO <sub>2</sub>	302.3038[M+H] <sup>+</sup>	60.0448,67.0545,97.6030,136.2916, 199.2474,257.2421,315.6597	Safingol	301.2981	301.2966	-4.98
17.51	C <sub>21</sub> H <sub>37</sub> N	304.2984[M+H] <sup>+</sup>	56.0500,74.0603,86.0602,114.0547,185.0913, 214.1175,240.1339,286.1386	N,N-Dimethylandrostan-1- amine	303.2926	303.2913	-4.29
19.60	C <sub>7</sub> H <sub>17</sub> N	332.3295[M+H] <sup>+</sup>	69.0339,85.0285,108.0806,152.0700, 170.0805,296.1121,314.1220	N,N-dimethylpentan-3-amine	331.3239	331.3223	-4.83
20.39	C <sub>22</sub> H <sub>47</sub> NO <sub>2</sub>	358.3662[M+H] <sup>+</sup>	88.0757,106.0862,171.9193,280.3222, 340.3531	Ammonium Behenate	357.3607	357.3589	-5.04
20.65	C <sub>22</sub> H <sub>47</sub> N	326.3760[M+H] <sup>+</sup>	88.0757,120.5113,163.5201,217.5699, 280.3684,336.7197	Docosylamine	325.3709	325.3688	-6.45
23.36	C <sub>18</sub> H <sub>35</sub> NO	282.2780[M+H] <sup>+</sup>	69.0702,79.0544,93.0696,114.6098,	9-Octadecenamide	281.2719	281.2707	-4.27

Flavones				165.7358,204.1355,239.4173,252.2677				
	25.33	C <sub>18</sub> H <sub>37</sub> NO	284.2937[M+H] <sup>+</sup>	60.0812,64.4404,97.6987,136.1072, 165.1863,258.8271	Amide C18	283.2875	283.2865	-3.53
	25.58	C <sub>20</sub> H <sub>41</sub> NO	312.3249[M+H] <sup>+</sup>	60.0812,71.0859,114.5454,164.9558, 195.2109,257.5814,280.3989	N,N-Dimethylstearamide	311.3188	311.3176	-3.85
	35.14	C <sub>19</sub> H <sub>30</sub> O <sub>5</sub>	337.2022[M-H] <sup>-</sup>	87.0441,144.1014,216.1231,280.0885, 458.4151,601.66689	Dodecyl gallate	338.2093	338.2097	1.18
	0.70	C <sub>30</sub> H <sub>22</sub> O <sub>10</sub>	543.1296[M+H] <sup>+</sup>	84.1270,130.9075,219.0466,275.8246, 381.0754	Isochamaejasmin	542.1213	542.1223	1.84
	0.85	C <sub>30</sub> H <sub>26</sub> O <sub>13</sub>	595.1429[M+H] <sup>+</sup>	599.1153,600.8674,610.11832,617.1251	Proanthocyanidins	594.1373	594.1357	-2.69
	0.92	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>	303.0501[M-H] <sup>-</sup>	66.7697,97.6141,114.5622,136.0435, 152.0111,164.6883,176.0458,280.3682	Taxifolin	304.0583	304.0573	-3.29
	2.49	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	289.0691[M-H] <sup>-</sup>	71.9295,83.0839,136.2927,170.9135, 188.9288,222.4876,267.8817	(-)-Epicatechin (-)	290.0790	290.0763	-9.31
	3.16	C <sub>30</sub> H <sub>26</sub> O <sub>12</sub>	579.1475[M+H] <sup>+</sup>	580.1511,597.0983,601.1295,603.1353	Procyanidin B2	578.1424	578.1403	-3.63
	3.31	C <sub>21</sub> H <sub>23</sub> N <sub>3</sub> O <sub>7</sub>	430.1586[M+H] <sup>+</sup>	60.0442,119.0727,135.0673,269.1271,	Amicycline	429.1536	429.1511	-5.83



			315.1324,385.1376,412.1488					
3.91	C <sub>30</sub> H <sub>26</sub> O <sub>11</sub>	563.1523[M+H] <sup>+</sup>	564.1564,577.1325,583.1194,586.1382, 585.1345	Gambiriin C	562.1475	562.1451	-4.27	
4.45	C <sub>30</sub> H <sub>26</sub> O <sub>12</sub>	577.1266[M-H] <sup>-</sup>	435.1888,425.0832,388.3732,336.7420, 287.0536,114.6605,84.2190	Procyanidin B3	577.1352	577.1330	-3.81	
4.47	C <sub>26</sub> H <sub>28</sub> O <sub>15</sub>	581.1451[M+H] <sup>+</sup>	73.2671,136.2991,259.0784,321.8570, 458.2133	Neocarlinoside	580.1428	580.1378	-8.62	
4.92	C <sub>24</sub> H <sub>22</sub> O <sub>13</sub>	519.1084[M+H] <sup>+</sup>	84.2492,206.0509,280.0524,336.8967, 458.4076,492.8540	Malonylgenistin	518.1060	518.1020	-7.72	
7.25	C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	611.1946[M+H] <sup>+</sup>	612.1982,613.2014,624.2109,625.2231, 627.2388,628.2422,634.1799,633.1761	Hesperidin	610.1898	610.1865	-5.41	
8.86	C <sub>15</sub> H <sub>11</sub> O <sub>6</sub>	288.2873[M+H] <sup>+</sup>	57.0701 ,290.9060,291.1939,310.2344	Cyanidin cation	287.2437	287.2436	-0.35	
35.14	C <sub>19</sub> H <sub>30</sub> O <sub>5</sub>	337.2022[M-H] <sup>-</sup>	87.0441,144.1014,216.1231,280.0885, 458.4151,601.66689	Dodecyl gallate	338.2093	338.2097	1.18	
35.56	C <sub>27</sub> H <sub>32</sub> O <sub>14</sub>	579.1681[M-H] <sup>-</sup>	84.2382,136.3153,203.7300,258.4631, 285.0735,335.8143,512.5865	Naringin	580.1792	580.1746	-7.93	

	35.60	C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	609.1783[M-H] <sup>-</sup>	73.2979,165.0048,203.5915,257.8745, 294.2006,335.8289,361.9692,458.4070	Neohesperidin	610.1898	610.1848	-8.20
	0.71	C <sub>12</sub> H <sub>21</sub> N <sub>3</sub> O <sub>6</sub>	304.1489[M+H] <sup>+</sup>	286.1384,287.1419,293.0620,295.1124, 299.0604,305.1526	Boc-Ala-Gly-Gly	303.1430	303.1417	-4.29
	0.94	C <sub>11</sub> H <sub>20</sub> N <sub>2</sub> O <sub>3</sub>	229.1536[M+H] <sup>+</sup>	73.2895,87.3019,115.0539,128.0615, 157.0648,185.0580,213.0544	Pro-leu	228.1474	228.1464	-4.38
	0.95	C <sub>10</sub> H <sub>13</sub> NO <sub>2</sub>	180.1012[M+H] <sup>+</sup>	77.0387,95.0491,117.0569,121.0646, 146.0594,149.0464,165.0778	Phenprobamate	179.0946	179.0939	-3.91
Organic acids	1.22	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>	118.0860[M+H] <sup>+</sup>	55.0548,57.0578,72.0811,76.9332,84.1696, 94.9434,105.0449	Valine	118.1194	118.1187	-5.93
	4.51	C <sub>11</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>	211.1433[M+H] <sup>+</sup>	73.0961, 97.4816,215.1423,233.1246, 249.0979	Cyclo(leucylprolyl)	210.1368	210.1351	-8.09
	5.34	C <sub>24</sub> H <sub>39</sub> N <sub>7</sub> O <sub>8</sub>	554.2948[M+H] <sup>+</sup>	277.6509,307.1140,336.1540,447.1245, 456.2304,455.2260,554.2948,576.2767	L-Threonyl-L-histidyl-L- threonyl-L-valyl-L-proline	553.2868	553.2871	0.54
	6.43	C <sub>9</sub> H <sub>14</sub> N <sub>2</sub> O <sub>7</sub>	261.0741[M+H] <sup>+</sup>	74.0226,78.9569,84.1472,97.6159, 136.2830,164.6517,185.3136	Asp-Glu	262.0801	262.0814	4.96

9.36	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub>	213.1092[M+H] <sup>+</sup>	64.9172,73.2878,77.0022,82.7814, 107.6133,203.2191	Glycyl-D-threonine	212.1008	212.1020	5.66
11.10	C <sub>10</sub> H <sub>5</sub> O <sub>3</sub>	174.0305[M+H] <sup>+</sup>	64.4148,84.0339,89.0387,118.0413, 130.0650,144.0799,174.1273,178.6506	Oxo-4-phenyl-3-butynoate	173.0239	173.0232	-4.05
11.32	C <sub>24</sub> H <sub>20</sub> O <sub>10</sub>	469.1081[M+H] <sup>+</sup>	97.5589,136.3375,232.0696,280.0370, 302.6043,338.5459,458.5816	Gyrophoric acid (-)	468.1056	468.1009	-10.04
13.35	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	293.0986[M+H] <sup>+</sup>	105.1869,147.0463,203.1051,315.0805, 336.4451,	Ethylenediaminetetraacetic acid	292.0907	292.0913	2.05
19.67	C <sub>24</sub> H <sub>40</sub> O <sub>2</sub>	361.3096[M+H] <sup>+</sup>	362.9249,363.1765,365.1172	5β-cholanoic acid	360.3028	360.3023	-1.39
27.78	C <sub>19</sub> H <sub>38</sub> N <sub>2</sub> O <sub>6</sub>	391.2825[M+H] <sup>+</sup>	114.5523,203.7558,336.7654	2,3-dihydroxybutanedioic acid	390.2730	390.2743	3.33
30.62	C <sub>15</sub> H <sub>22</sub> O <sub>3</sub>	249.1480[M-H] <sup>-</sup>	58.2773, 114.4650, 189.1255,254.2472	gemfibrozil	250.1569	250.1553	-6.40
32.15	C <sub>44</sub> H <sub>58</sub> N <sub>2</sub> O <sub>3</sub>	663.4490[M+H] <sup>+</sup>	677.4929,685.4312,686.4351,708.5075, 709.5111,726.4582	4-[28-Oxo-28-{[2-(2- pyridinyl)ethyl]amino}lupa- 2,20(29)-dien-3-yl]benzoic acid	662.4447	662.4418	-4.38

	32.22	C <sub>39</sub> H <sub>58</sub> N <sub>4</sub> O <sub>5</sub>	663.4498[M+H] <sup>+</sup>	726.4586,975.8096,989.8241,1347.8759	3-hexanoyl-NBD Cholesterol	662.4407	662.4420	1.96
	32.34	C <sub>26</sub> H <sub>52</sub> O <sub>3</sub>	411.3804[M-H] <sup>-</sup>	73.1553,114.6528,164.8311,335.9418, 365.3743	26-Hydroxyhexacosanoic acid	412.3916	412.3876	-9.70
	33.68	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub>	191.0170[M-H] <sup>-</sup>	84.1572,97.6019,114.3242,136.0959, 144.9627,203.8123	Citric Acid	192.0270	192.0289	9.90
Steroids	0.74	C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>3</sub>	266.1222[M+H] <sup>+</sup>	248.1180,259.0913,260.0729,266.1586	Lobucavir	265.1175	265.1150	-9.43
	4.63	C <sub>22</sub> H <sub>14</sub>	279.1189[M+H] <sup>+</sup>	84.1490,97.4164,136.1072,181.3166, 203.4637,257.2826	Pentaphene	278.1096	278.1117	7.55
	15.37	C <sub>24</sub> H <sub>30</sub> O <sub>6</sub>	415.2101[M+H] <sup>+</sup>	437.1914,438.1953,439.1979,453.1657	Meprednisone Acetate	414.2042	414.2024	-4.35
Quinones	5.20	C <sub>32</sub> H <sub>28</sub> O <sub>9</sub>	555.1668[M-H] <sup>-</sup>	573.1180,588.8926,601.1722,605.8829, 618.1621,669.1593	Shikometabolin B	556.1733	556.1739	1.08
	6.66	C <sub>27</sub> H <sub>30</sub> O <sub>13</sub>	563.1708[M+H] <sup>+</sup>	64.4161,136.3428,204.1910,269.6362, 336.5809,436.4548	Lignan P	562.1686	562.1636	-8.89
	32.18	C <sub>17</sub> H <sub>26</sub> O <sub>4</sub>	293.1765[M-H] <sup>-</sup>	73.2748,79.9553,96.9578,114.6741, 136.3411,165.1391	Embelin	294.1831	294.1836	1.70
	35.53	C <sub>19</sub> H <sub>30</sub> O <sub>4</sub>	321.2076[M-H] <sup>-</sup>	337.2025,347.1308,339.1973,353.1972,	Decylubiquinone	322.2144	322.2145	0.31

				354.2006,365.2335,381.2283				
	35.63	C <sub>11</sub> H <sub>8</sub> O <sub>3</sub>	187.0397[M-H] <sup>-</sup>	71.5846,78.9566,84.1446,97.5875, 114.5366,136.3169	Plumbagin	188.0473	188.0470	-1.60

Table S2 Chemicals in *F. carica* root exudates

Type of compound	RT (min)	Formula	[M-H] <sup>-</sup> / [M+H] <sup>+</sup>	Main Ms/Ms product ions	Proposed compound	Theoretical Mass (m/z)	Measured value (m/z)	Error (×10 <sup>-6</sup> )
Coumarins	3.94	C <sub>9</sub> H <sub>6</sub> O <sub>4</sub>	179.0331[M+H] <sup>+</sup>	151.0382,133.0281,123.0437,105.0338,95.0492,77.0388,68.9974	Esculetin	179.0339	179.0332	-3.91
	4.88	C <sub>11</sub> H <sub>6</sub> O <sub>4</sub>	201.0177[M-H] <sup>-</sup>	75.0232, 95.0494,131.0487,75.0383,204.9552	Xanthotoxol	202.0266	202.0250	-7.92
	5.57	C <sub>9</sub> H <sub>6</sub> O <sub>3</sub>	163.0384[M+H] <sup>+</sup>	135.0434,116.9659,107.0490,105.0446,95.0492,89.0388,79.0544	Umbelliferone	163.0389	163.0385	-2.45
	6.47	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>	247.0955[M+H] <sup>+</sup>	229.0851,213.0535,175.0383,147.043	Marmesin	247.0965	247.0958	-2.83

4,119.0490,103.0541,91.0543							
6.77	C <sub>14</sub> H <sub>12</sub> O <sub>3</sub>	229.0852[M+H] <sup>+</sup>	213.0544,185.0580,157.0648,128.061 5,115.0539,87.3019,73.2895	Angenomalin	229.0859	229.0852	-3.06
9.63	C <sub>11</sub> H <sub>6</sub> O <sub>3</sub>	187.0382[M+H] <sup>+</sup>	159.0436,143.0486,131.0486,115.054 0,105.0445,95.0492,89.0387	Psoralen	187.0390	187.0383	-3.74
8.17	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>	247.0954[M+H] <sup>+</sup>	91.0543,119.0488,147.0433,175.0381, 185.0589,247.0954	Nodakenetin	246.0892	246.0868	-9.75
8.26	C <sub>14</sub> H <sub>14</sub> O <sub>4</sub>	247.0952[M+H] <sup>+</sup>	229.0847,213.0539,175.0382,147.043 4,115.0543,91.0544,68.9973	Columbianetin	247.0965	247.0958	-2.83
11.21	C <sub>12</sub> H <sub>8</sub> O <sub>4</sub>	217.0487[M+H] <sup>+</sup>	202.0251,174.0302,161.0588,146.035 4,131.0486,118.0411,89.0386	Bergapten	217.0495	217.0490	-3.20
25.70	C <sub>21</sub> H <sub>24</sub> O <sub>5</sub>	355.1557[M-H] <sup>-</sup>	84.0734, 116.9266, 203.7526, 280.7447,321.9117	Rutamarin	356.1624	356.1630	1.68
35.59	C <sub>11</sub> H <sub>10</sub> O <sub>3</sub>	189.0562[M-H] <sup>-</sup>	64.4359,91.0166,165.0012,187.8595,1 92.9274	7-Ethoxycoumarin	190.0630	190.0635	2.63

Terpenoids	0.73	C <sub>13</sub> H <sub>16</sub> N <sub>4</sub> O <sub>6</sub>	347.0922[M+Na] <sup>+</sup>	326.1148, ,337.1090,472.4404,649.21 33,671.1952	Furaltadone	324.1069	324.1039	-0.26
	3.66	C <sub>20</sub> H <sub>24</sub> O <sub>10</sub>	423.1253[M-H] <sup>-</sup>	427.2417,459.1024,469.1302,470.134 1487.1243,537.1177,	Ginkgolide B	424.1369	424.1329	-9.43
	4.22	C <sub>11</sub> H <sub>15</sub> N <sub>3</sub> O <sub>8</sub>	318.0926[M+H] <sup>+</sup>	317.8994,319.0959,321.2377,322.247 3	Polyoxin C	317.0859	317.0853	-1.89
	7.23	C <sub>25</sub> H <sub>22</sub> N <sub>2</sub> O <sub>5</sub>	429.1515[M-H] <sup>-</sup>	96.9582,259.6032,336.7244,410.4415, 433.2337	Zanamivir Amine Triacetate Methyl Ester	430.1587	430.1590	4.97
	10.57	C <sub>28</sub> H <sub>22</sub>	359.1801[M+H] <sup>+</sup>	96.0181,143.3853257.1088,362.3235	9,10-Bis(4- methylphenyl)anth racene	358.1721	358.1728	1.95
	15.30	C <sub>26</sub> H <sub>26</sub> O <sub>9</sub>	483.1589[M+H] <sup>+</sup>	136.3201,280.0822,393.1639,486.107 9	Gilvocarcin M	482.1577	482.1536	-8.50
	19.36	C <sub>20</sub> H <sub>22</sub> O <sub>2</sub>	295.1675 [M+H] <sup>+</sup>	76.9574, 90.9763, 111.3316, 222.2712,280.9984, 296/1668	Longistylin A	294.1620	294.1603	-5.78

	24.10	C <sub>14</sub> H <sub>26</sub> O <sub>4</sub>	259.1883[M+H] <sup>+</sup>	55.0545, 101.0591, 129.0538, 147.0638,203.3184	Tetradecaneioic acid	258.1831	258.1811	-7.75
	26.91	C <sub>38</sub> H <sub>49</sub> N <sub>3</sub> O <sub>5</sub>	628.3688[M+H] <sup>+</sup>	114.5062, 280.3070,371.1017,631.4135	Bemotrizinol	627.3672	627.3645	-4.30
	27.27	C <sub>24</sub> H <sub>38</sub> O <sub>4</sub>	391.2807[M+H] <sup>+</sup>	91.9828,169.9946,256.8141,395.4211	Diocetyl phthalate	390.2770	390.2745	-8.61
	27.76	C <sub>25</sub> H <sub>35</sub> NO <sub>4</sub>	412.2473[M-H] <sup>-</sup>	64.4214,97.5916280.0219,338.3460,4 15.8739	Norbuprenorphine	413.2566	413.2546	-4.84
	31.46	C <sub>15</sub> H <sub>22</sub> O <sub>4</sub>	265.1463[M-H] <sup>-</sup>	97.3725,203.5167, 257.2839,268.7779	Zinniol	266.1518	266.1536	6.76
	31.94	C <sub>12</sub> H <sub>16</sub> O	175.1133[M-H] <sup>-</sup>	59.9656, 75.9604, 92.9997, 114.6072,157.1029, 175.1133	4- Cyclohexylphenol	176.1201	176.1206	2.84
	34.61	C <sub>17</sub> H <sub>26</sub> O <sub>5</sub>	309.1712[M-H] <sup>-</sup>	64.4856,79.9556,97.5921,134.9214,20 3.6785,309.1715	Decyl Gallate	310.1780	310.1794	4.51
	0.82	C <sub>14</sub> H <sub>21</sub> NO <sub>3</sub>	250.1438[M-H] <sup>-</sup>	97.3690, 164.9332, 206.9735, 207.9814,252.9719	2,6-ditert-butyl-4- nitrophenol	251.1521	251.1501	-7.96
Alkaloids	0.90	C <sub>21</sub> H <sub>16</sub> O <sub>6</sub>	365.1027[M+H] <sup>+</sup>	114.3890,185.0413,203.0508,336.690 5,368.8889	Justicidin B	364.0947	364.0955	2.20



0.93	C <sub>4</sub> H <sub>2</sub> N <sub>6</sub> O <sub>5</sub>	215.0150[M+H] <sup>+</sup>	215.0150,236.9968,300.1179, 451.0054	Azoxyfuroxan	214.0087	214.0077	-4.67
1.22	C <sub>13</sub> H <sub>20</sub> N <sub>2</sub> O <sub>6</sub>	301.1388[M+H] <sup>+</sup>	73.0467, 91.0569, 114.4321, 205.4325,280.9338, 301.0567	5-Butyluridine	300.1321	300.1315	-1.20
5.55	C <sub>20</sub> H <sub>24</sub> O <sub>10</sub>	425.1392[M+H] <sup>+</sup>	427.2417,459.1023,491.1127,537.117 7	4-[4-(3-Phenyl-2- quinoxaliny)phtha lonitrile	424.1324	424.1319	-1.18
6.07	C <sub>15</sub> H <sub>18</sub> O <sub>4</sub>	285.1187[M+H] <sup>+</sup>	245.1164, 264.1301,268.2433,275.8894	Helenalin	262.1205	262.1228	8.77
7.38	C <sub>37</sub> H <sub>28</sub> O <sub>10</sub>	633.1778[M+H] <sup>+</sup>	203.6466,331.0993,659.0158,677.165 8,690.8776	Pyranoamentoflavo ne	632.1683	632.1672	-1.74
8.11	C <sub>18</sub> H <sub>22</sub> N <sub>2</sub> O <sub>10</sub>	427.1331[M+H] <sup>+</sup>	164.9422, 257.9796,280.0273,430.9106	Nitrophenyl 2- acetamido-3,6-di- O-acety-2-deoxyl- beta-D- glucopyranoside	426.1274	426.1258	-3.75

13.94	C <sub>16</sub> H <sub>35</sub> NO <sub>2</sub>	274.2719[M+H] <sup>+</sup>	136.3369,256.2624,275.2752,277.1235	Lauryldimethylammonium Acetate	273.2668	273.2646	-8.05
14.03	C <sub>14</sub> H <sub>31</sub> NO	230.2457[M+H] <sup>+</sup>	57.0701,71.0855,85.1010,212.2354,233.4803	Lauryldimethylamine oxide	229.2406	229.2384	-9.59
16.29	C <sub>18</sub> H <sub>39</sub> NO <sub>2</sub>	302.3023[M+H] <sup>+</sup>	60.0446,88.0754,136.2916,284.2925,302.3024	Safingol	301.2981	301.2951	-9.96
17.32	C <sub>15</sub> H <sub>18</sub> N <sub>6</sub> O <sub>2</sub>	313.1429[M-H] <sup>-</sup>	61.4773, 114.2076, 136.3569, 199.0752,203.5463, 335.7993	Pimefylline	314.1491	314.1502	3.50
17.51	C <sub>21</sub> H <sub>37</sub> N	304.2975[M+H] <sup>+</sup>	56.0507, 86.0603, 185.0920,308.8875	N,N-Dimethylandrostan-1-amine	303.2926	303.2902	-7.91
19.60	C <sub>7</sub> H <sub>17</sub> N	332.3284[M+H] <sup>+</sup>	108.0809,314.1223,336.6591	N,N-dimethylpentan-3-amine	331.3239	331.3211	-8.45
20.39	C <sub>22</sub> H <sub>47</sub> NO <sub>2</sub>	358.3641[M+H] <sup>+</sup>	88.0754,106.0856,203.0471,340.3553,358.3646,380.3467	Ammonium Behenate	357.3607	357.3575	-8.95

Flavones	25.33	C <sub>18</sub> H <sub>37</sub> NO	284.2924[M+H] <sup>+</sup>	74.0599,97.6989, 102.0907, 136.1073, 284.2923, 325.3188, 567.5776	Amide C18	283.2875	283.2851	-8.47
	24.44	C <sub>22</sub> H <sub>43</sub> NO	338.3385[M+H] <sup>+</sup>	69.0699, 135.1155, 177.1619, 321.3116,568.5607,675.6696	Erucamide	337.3340	337.3313	-8.00
	25.58	C <sub>20</sub> H <sub>41</sub> NO	312.3233[M+H] <sup>+</sup>	60.0816, 164.9563, 280.3967,316.6825	N,N-Dimethylstearamide	311.3188	311.3161	-8.67
	35.14	C <sub>19</sub> H <sub>30</sub> O <sub>5</sub>	337.2022[M-H] <sup>-</sup>	144.1016,280.0887,397.2227,458.415 3,601.6668	Dodecyl gallate	338.2093	338.2093	0.03
	0.85	C <sub>30</sub> H <sub>26</sub> O <sub>13</sub>	593.1266[M-H] <sup>-</sup>	595.8555,599.1167,600.8658,617.126 2	Proanthocyanidins	594.1373	594.1339	-5.72
	0.92	C <sub>15</sub> H <sub>12</sub> O <sub>7</sub>	305.0663[M+H] <sup>+</sup>	66.7699,97.6141,136.0452,152.0111,2 80.3675,309.1468	Taxifolin	304.0583	304.0590	2.30
	2.49	C <sub>15</sub> H <sub>14</sub> O <sub>6</sub>	291.0819[M+H] <sup>+</sup>	83.0839,136.2927,170.9135,295.1678	(-)-Epicatechin	290.0790	290.0766	-8.27
	3.16	C <sub>30</sub> H <sub>26</sub> O <sub>12</sub>	579.1477[M+H] <sup>+</sup>	580.1510,597.0986,601.1297,603.135 3	Procyanidin B2	578.1424	578.1404	-3.46

3.31	C <sub>21</sub> H <sub>23</sub> N <sub>3</sub> O <sub>7</sub>	430.1601[M+H] <sup>+</sup>	135.0672,315.1326,412.1479,433.1459	Amicycline	429.1536	429.1528	-1.86
3.91	C <sub>30</sub> H <sub>26</sub> O <sub>11</sub>	563.1531[M+H] <sup>+</sup>	564.1567,577.1331,583.8766,586.1382,585.1354	Gambiriin C	562.1475	562.1456	-3.38
4.45	C <sub>30</sub> H <sub>26</sub> O <sub>12</sub>	577.1299[M-H] <sup>-</sup>	125.0221,287.0539,388.3730,425.0832,580.8605	Procyanidin B3	577.1352	577.1372	3.47
4.92	C <sub>24</sub> H <sub>22</sub> O <sub>13</sub>	517.0975[M-H] <sup>-</sup>	84.2487,206.0512336.8971,492.8531,520.9053	Malonylgenistin	518.1060	518.1048	-2.32
7.25	C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	611.1931[M+H] <sup>+</sup>	610.3386,613.2016,623.1745,627.2378,634.1792	Hesperidin	610.1898	610.1854	-7.21
8.86	C <sub>15</sub> H <sub>11</sub> O <sub>6</sub>	288.2873[M+H] <sup>+</sup>	57.0701,290.9060,291.1939,310.2344	Cyanidin cation	287.2437	287.2436	-0.35
23.99	C <sub>27</sub> H <sub>30</sub> O <sub>16</sub>	611.1648[M+H] <sup>+</sup>	593.1528,611.1648,626.1895,633.1448,649.1186	Rutin	610.1534	610.1556	3.60
35.56	C <sub>27</sub> H <sub>32</sub> O <sub>14</sub>	581.1858[M+H] <sup>+</sup>	136.3155,203.7303,285.0741,512.5867,585.2861	Naringin	580.1792	580.1785	-1.21

Organic acids	35.60	C <sub>28</sub> H <sub>34</sub> O <sub>15</sub>	611.1966[M+H] <sup>+</sup>	294.2013,361.9689,458.4072,613.3403	Neohesperidin	610.1898	610.1893	-0.82
	0.95	C <sub>10</sub> H <sub>13</sub> NO <sub>2</sub>	180.1016[M+H] <sup>+</sup>	95.0493,117.0567, 165.0781,422.2024	Phenprobamate	179.0946	179.0935	-6.14
	4.51	C <sub>11</sub> H <sub>18</sub> N <sub>2</sub> O <sub>2</sub>	211.1426[M+H] <sup>+</sup>	73.0959,83.9561,97.4819,136.1328,176.1328,233.1243,249.0981	Cyclo(leucylprolyl )	210.1368	210.1351	-8.09
	5.21	C <sub>10</sub> H <sub>19</sub> N <sub>7</sub> O <sub>5</sub>	318.1525[M+H] <sup>+</sup>	299.1079,304.1732,305.1549,311.1626,321.1287	neosaxitoxin conjugate acid	317.1448	317.1452	1.26
	5.34	C <sub>24</sub> H <sub>39</sub> N <sub>7</sub> O <sub>8</sub>	552.2746[M-H] <sup>-</sup>	277.6513,336.1521,456.2301,455.2255,553.2782	L-Threonyl-L-histidyl-L-threonyl-L-valyl-L-proline	553.2868	553.2817	-9.22
	9.36	C <sub>6</sub> H <sub>12</sub> N <sub>2</sub> O <sub>4</sub>	213.0897[M+H] <sup>+</sup>	64.9182,77.0019,82.7809,203.2190,217.1030	Glycyl-D-threonine	212.1008	212.1010	0.94
	11.10	C <sub>10</sub> H <sub>5</sub> O <sub>3</sub>	172.0217[M-H] <sup>-</sup>	84.0338,118.0417,174.1277175.8485	Oxo-4-phenyl-3-butyrate	173.0239	173.0242	1.73

13.35	C <sub>10</sub> H <sub>16</sub> N <sub>2</sub> O <sub>8</sub>	291.0837[M-H] <sup>-</sup>	84.0577,147.0411,203.1028,336.4466	Ethylenediaminetetraacetic acid	292.0907	292.0905	-0.68
19.67	C <sub>24</sub> H <sub>40</sub> O <sub>2</sub>	361.3082[M+H] <sup>+</sup>	362.9230,364.2428,365.1176	5β-cholanoic acid	360.3028	360.3009	-5.27
21.11	C <sub>14</sub> H <sub>26</sub> N <sub>2</sub> O <sub>6</sub>	319.1854[M+H] <sup>+</sup>	318.2976, 320.3041, 321.1282, 323.2189	BOC-L-DAB(BOC)	318.1791	318.1781	-3.14
27.78	C <sub>19</sub> H <sub>38</sub> N <sub>2</sub> O <sub>6</sub>	391.2798[M+H] <sup>+</sup>	114.5523,203.7558,394.2091,413.2632,454.2908,803.5390	2,3-dihydroxybutanedioic acid	390.2730	390.2725	-1.28
30.62	C <sub>15</sub> H <sub>22</sub> O <sub>3</sub>	249.1480[M-H] <sup>-</sup>	58.2769, 84.0887, 114.4633, 189.1253,203.8059, 249.1473	gemfibrozil	250.1569	250.1553	-6.40
32.15	C <sub>44</sub> H <sub>58</sub> N <sub>2</sub> O <sub>3</sub>	663.4478[M+H] <sup>+</sup>	685.4294,726.4582,854.3976,1325.8892,1347.8705	4-[28-Oxo-28-{[2-(2-pyridinyl)ethyl]amino}lupa-2,20(29)-dien-3-yl]benzoic acid	662.4447	662.4405	-6.34

	32.22	C <sub>39</sub> H <sub>58</sub> N <sub>4</sub> O <sub>5</sub>	663.4479[M+H] <sup>+</sup>	726.4579,928.4164,1008.3908,1325.8 89,1347.8713	3-hexanoyl-NBD  Cholesterol	662.4407	662.4405	-3.02
Steroids	5.77	C <sub>14</sub> H <sub>7</sub> NO <sub>5</sub>	270.0384[M+H] <sup>+</sup>	269.2474, 271.2437, 273.0924	1-Hydroxy-3-nitro- 9,10-anthraquinone	269.0324	269.0311	-4.83
	15.37	C <sub>24</sub> H <sub>30</sub> O <sub>6</sub>	415.2074[M+H] <sup>+</sup>	419.3120,430.9103,437.1899,453.165 7	Meprednisone  Acetate	414.2042	414.2006	-8.69
	27.63	C <sub>19</sub> H <sub>26</sub> O <sub>6</sub>	349.1671[M-H] <sup>-</sup>	59.9656, 136.0462, 149.0078, 191.0551,291.0892, 349.1667	Arctiopicrin	350.1729	350.1744	4.28
	1.08	C <sub>11</sub> H <sub>8</sub> O <sub>3</sub>	187.0405[M-H] <sup>-</sup>	71.5846, 97.5875, 136.3169,190.0131	Plumbagin	188.0473	188.0470	-1.60
Quinones	18.92	C <sub>19</sub> H <sub>30</sub> O <sub>4</sub>	321.2087[M-H] <sup>-</sup>	322.2120,347.1308,381.2283	Decylubiquinone	322.2144	322.2160	4.97
	20.96	C <sub>17</sub> H <sub>26</sub> O <sub>4</sub>	293.1774[M-H] <sup>-</sup>	73.2748,96.9583,136.3411,191.8211	Embelin	294.1831	294.1846	5.10