

## Supporting Information

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### Determination of secondary metabolites of *Origanum vulgare* subsp. *hirtum* and *O. vulgare* subsp. *vulgare* by LC-MS/MS

Züleyha Özer<sup>1</sup>, Sema Çarıkçı<sup>2</sup>, Hasibe Yılmaz<sup>3</sup>, Turgut Kılıç<sup>4</sup>,  
Tuncay Dirmenci<sup>5</sup> and Ahmet C. Gören<sup>6,7</sup>

<sup>1</sup> Medicinal and Aromatic Plants Programme, Altinoluk Vocational School, Balıkesir University, Edremit-Balıkesir, Türkiye

<sup>2</sup> Vocational School, İzmir Democracy University, İzmir, Türkiye

<sup>3</sup> TUBITAK UME, Chemistry Group, Organic Chemistry Laboratory, Gebze, Kocaeli, Türkiye

<sup>4</sup> Department of Science Education, Necatibey Faculty of Education, Balıkesir University, Balıkesir, Türkiye

<sup>5</sup> Department of Biology Education, Necatibey Faculty of Education, Balıkesir University, Balıkesir, Türkiye

<sup>6</sup> Drug Application and Research Center (İLMER), Bezmialem Vakıf University, İstanbul, Türkiye

<sup>7</sup> Faculty of Pharmacy, Department of Analytical Chemistry, Bezmialem Vakıf University, İstanbul, Türkiye

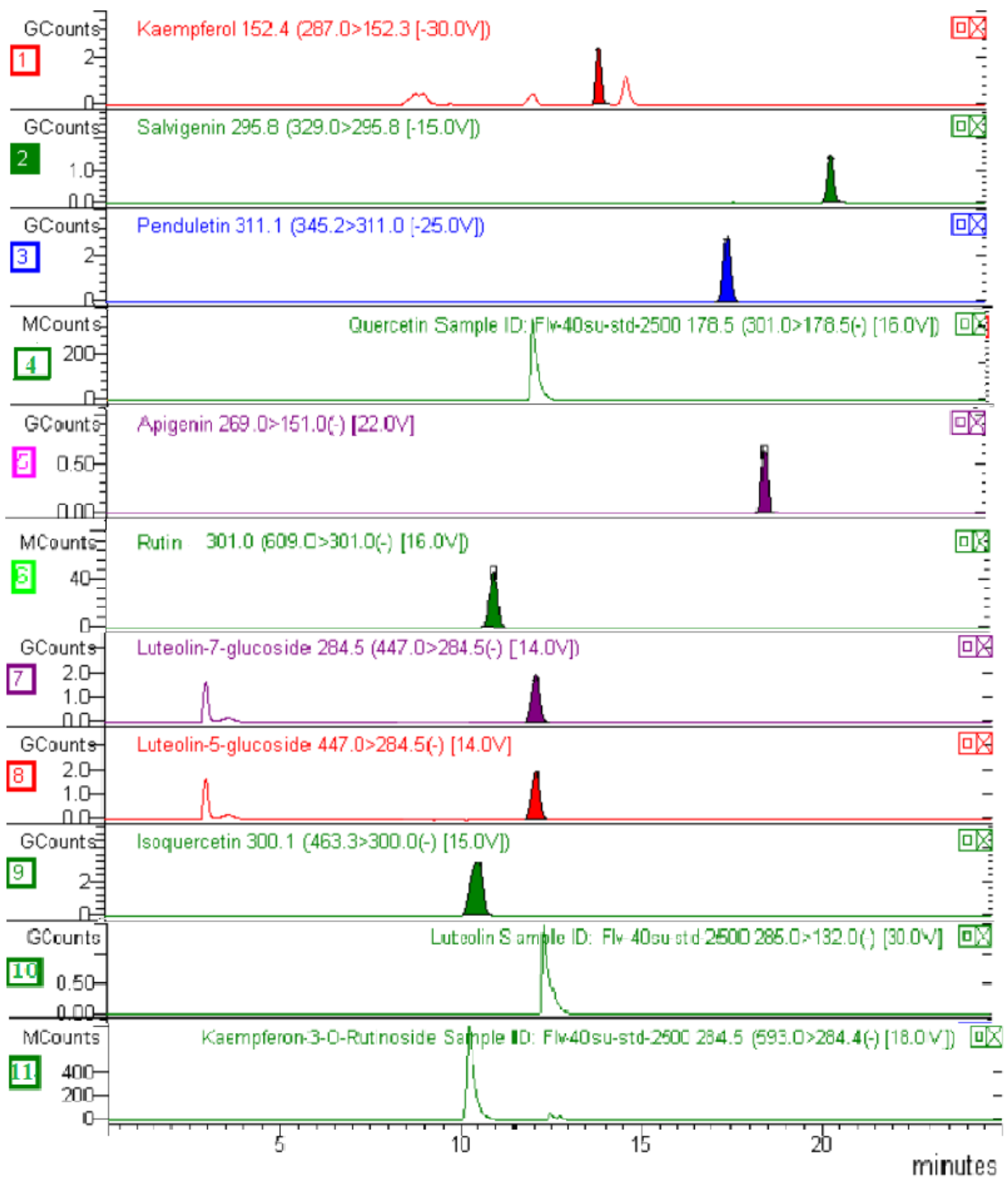
#### Table of Contents

	Page
<b>Table S1:</b> LC-MS/MS parameters of secondary metabolites and internal standard	2
<b>Figure S1:</b> Standards chromatogram of secondary metabolites (Flavonoids) by LC-MS/MS (5 mg/L)	3
<b>Figure S2:</b> Standards chromatogram of secondary metabolites (Phenolic acids) by LC-MS/MS (5mg/L)	4
<b>Figure S3:</b> <i>O. vulgare</i> subsp. <i>hirtum</i>	5
<b>Figure S4:</b> <i>O. vulgare</i> subsp. <i>vulgare</i>	6

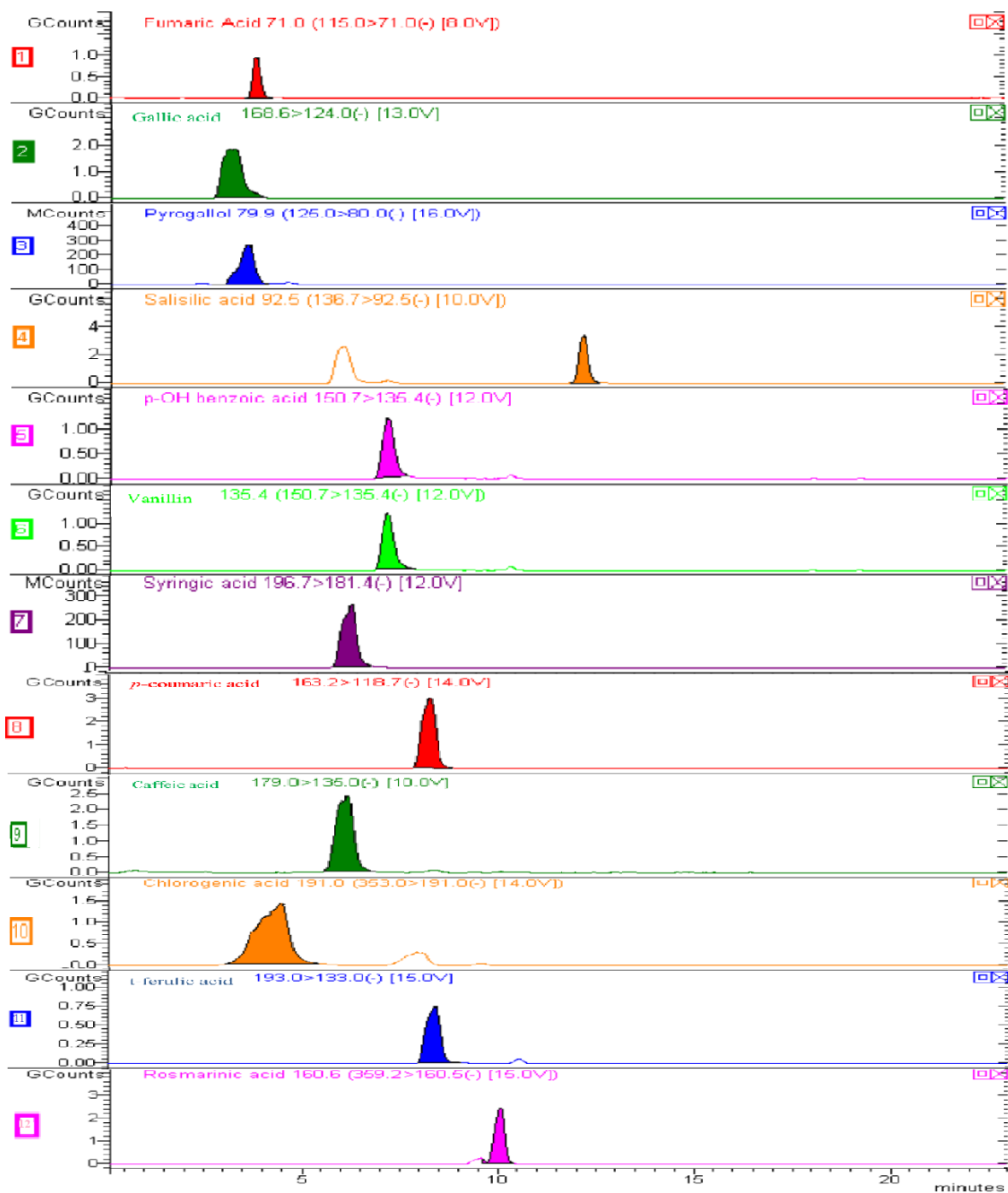
**Table S1:** LC-MS/MS parameters of secondary metabolites and internal standard

	<b>Compounds</b>	<b>Parent ion</b>	<b>Daughter ion</b>	<b>Collision energy (V)</b>	<b>ESI mode</b>
<b>1</b>	Kaempferol	287	152.3	30	positive
<b>2</b>	Kaempferol-3- <i>O</i> -rutinoside	593	284.4	18	negative
<b>3</b>	Salvigenin	329	295.8	15	positive
<b>4</b>	Penduletin	345.2	311	25	positive
<b>5</b>	Quercetin	471.9	309.9	16	negative
<b>6</b>	Luteolin	285	132	30	negative
<b>7</b>	Luteolin-7- <i>O</i> -glucoside	447	284.5	14	negative
<b>8</b>	Luteolin-5- <i>O</i> -glucoside	447	289.5	20	negative
<b>9</b>	Apigenin	269	151	22	negative
<b>10</b>	Rutin	609	301	16	negative
<b>11</b>	Isoquercetin	315	300	15	negative
<b>12</b>	<i>p</i> -Coumaric acid	163.2	118.7	14	negative
<b>13</b>	Caffeic Acid	179	135	14	negative
<b>14</b>	( <i>E</i> )-Ferulic Acid	193	133	15	negative
<b>15</b>	Chlorogenic Acid	353	191	14	negative
<b>16</b>	Rosmarinic acid	359.2	160.5	15	negative
<b>17</b>	Fumaric Acid	115	71	8	negative
<b>18</b>	<i>p</i> -Hydroxy benzoic acid	136.7	92.6	12	negative
<b>19</b>	Gallic acid	168.6	124	13	negative
<b>20</b>	Pyrogallol	125	80	16	negative
<b>21</b>	Salicylic acid	136.7	92.5	10	negative
<b>22</b>	Vanillin	150.7	135.4	12	negative
<b>23</b>	Syringic acid	196.7	181.4	12	negative
<b>IS</b>	Curcumin	169.3	176.9	20	negative

IS :internal standard



**Figure S1:** Chromatogram of secondary metabolites (Flavonoids) by LC-MS/MS



**Figure S2:** Chromatogram of secondary metabolites (Phenolic acids) by LC-MS/MS



**Figure S3:** *O. vulgare* subsp. *hirtum*



**Figure S4:** *O. vulgare* subsp. *vulgare*