

## Article

# Potential effect of *Pseudevernia furfuracea* (L.) Zopf extract and metabolite physodic acid on tumour microenvironment modulation in MCF-10A cells

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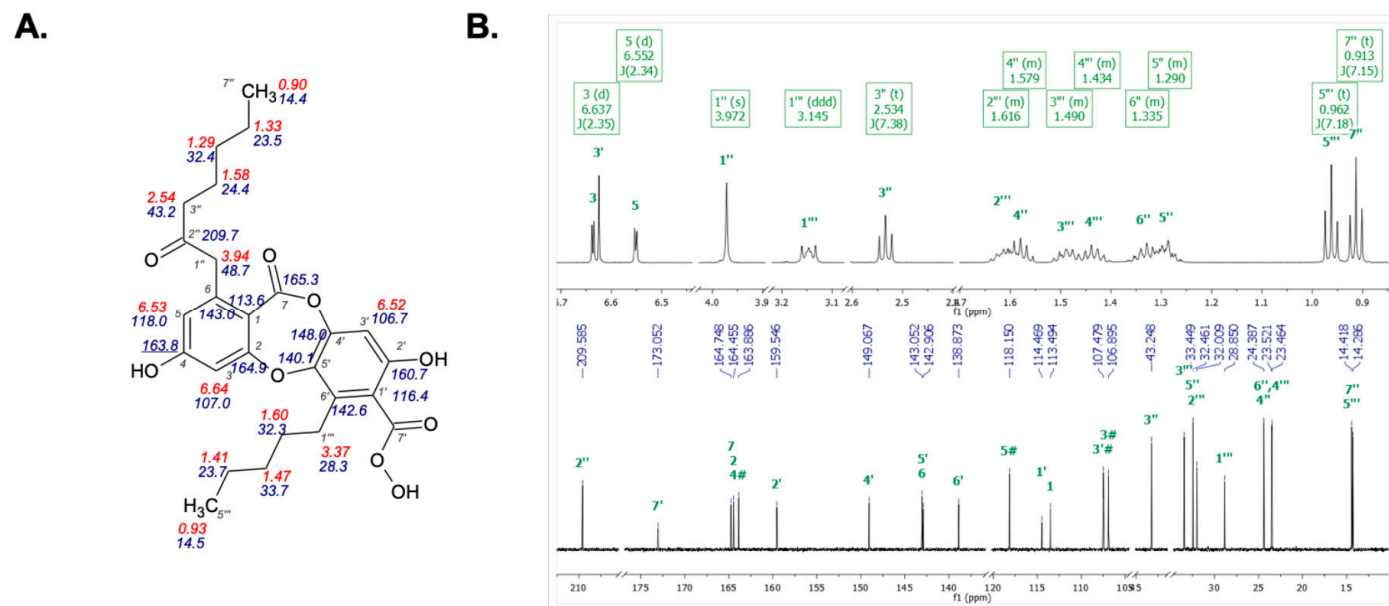
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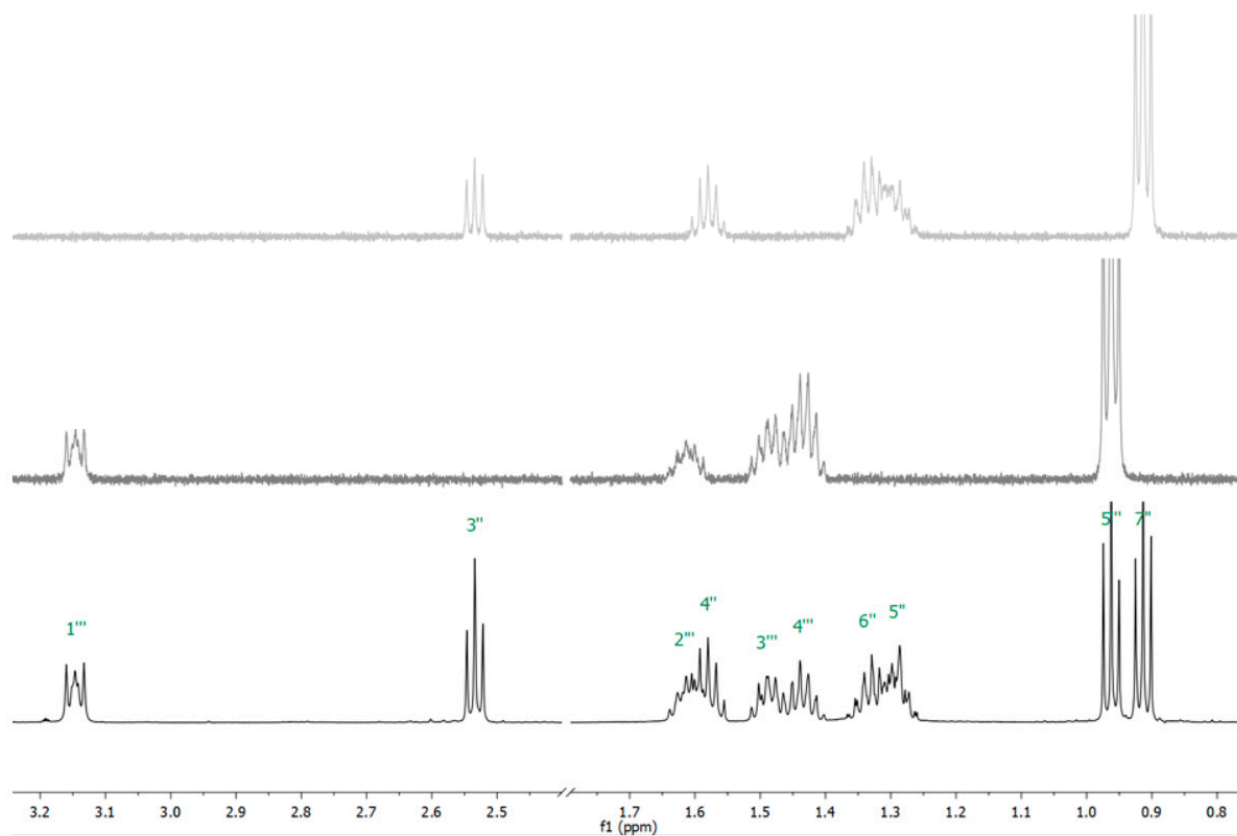
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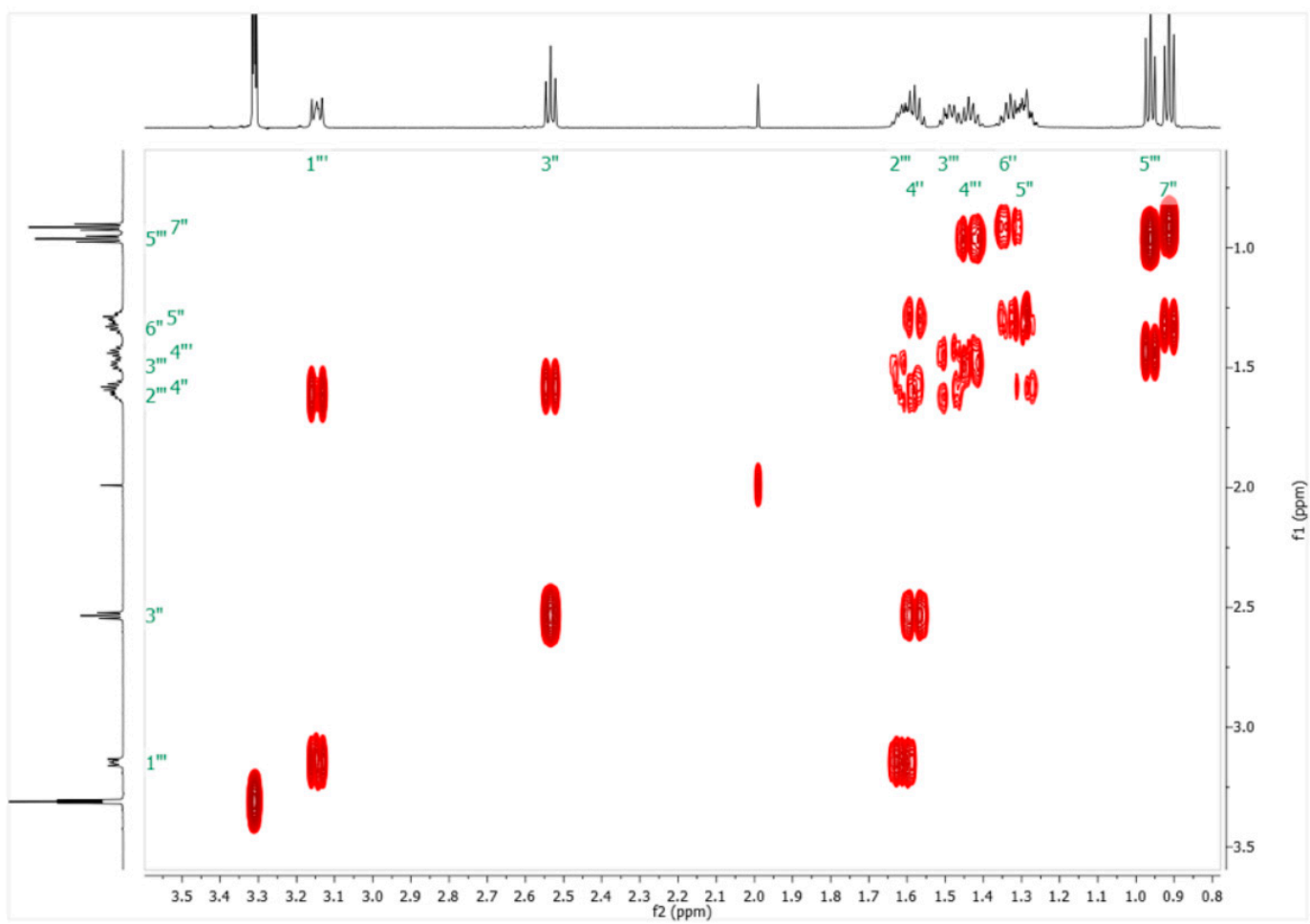
• Klaudia Petrova and Martin Kello contributed equally to this work



**Figure S1.** (A) Structure of physodic acid together with atom numbering and (B) <sup>1</sup>H (600 MHz, CD<sub>3</sub>OD) and <sup>13</sup>C NMR (150 MHz, CD<sub>3</sub>OD) spectrum.



**Figure S2.** 1D TOCSY (600 MHz, CD<sub>3</sub>OD) spectra of physodic acid showing only aliphatic regions.



**Figure S3.**  $^1\text{H}$ ,  $^1\text{H}$ -COSY spectrum (600 MHz,  $\text{CD}_3\text{OD}$ ) of physodic acid showing only aliphatic region.

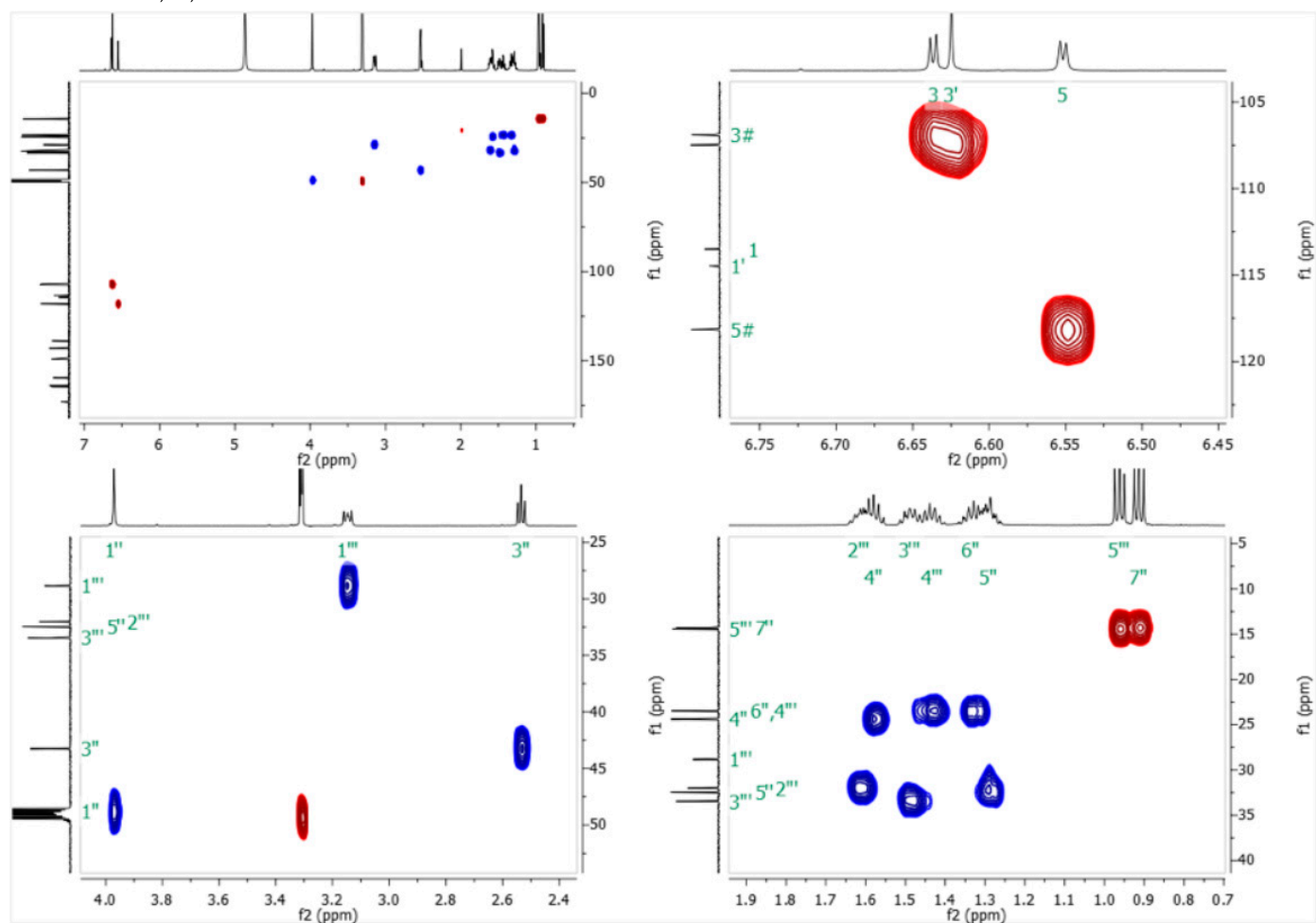


Figure S4.  $^1\text{H}$ ,  $^{13}\text{C}$ -HSQC spectra ( $\text{CD}_3\text{OD}$ ) of physodic acid.

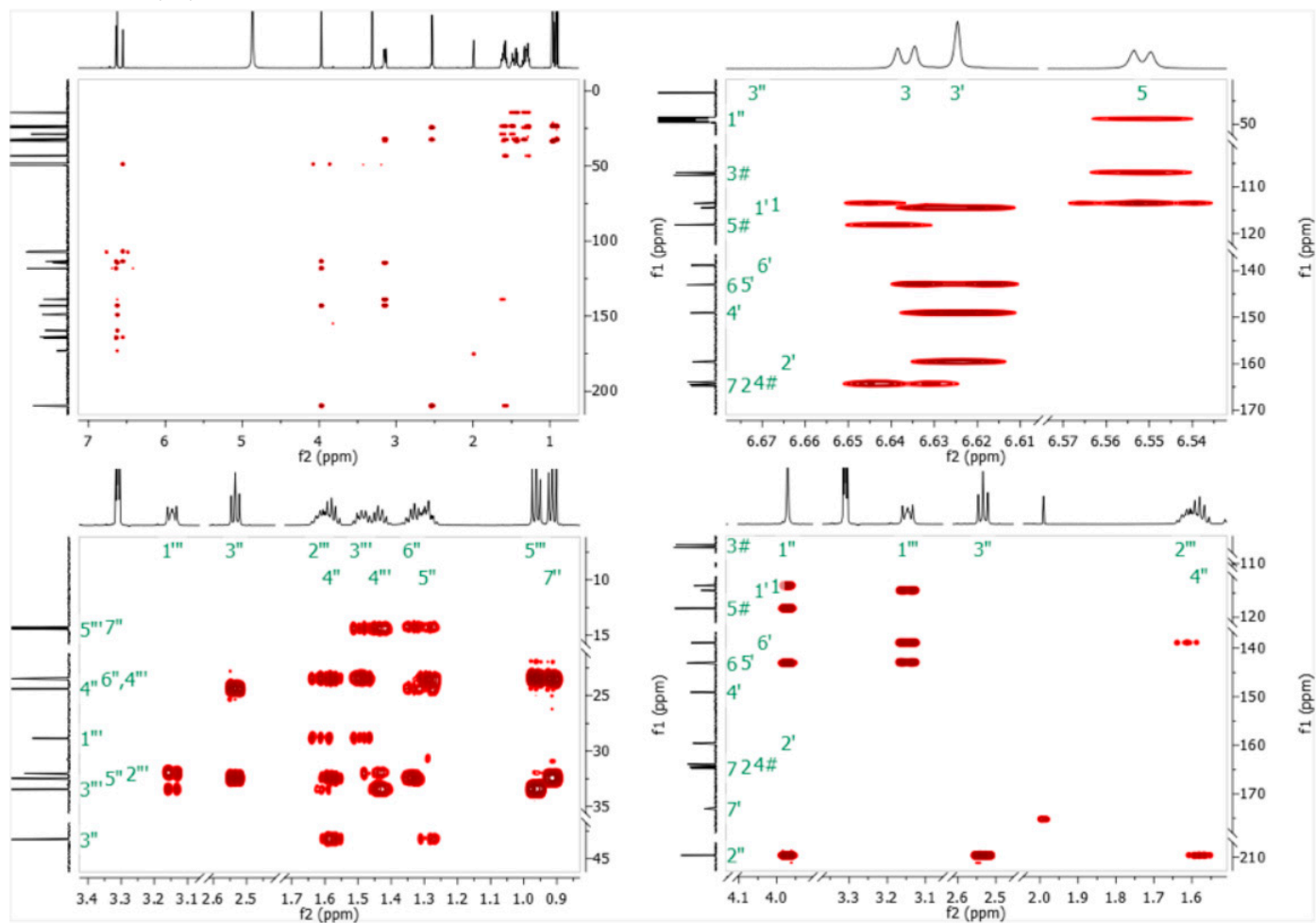


Figure S5.  $^1\text{H}$ ,  $^{13}\text{C}$ -HMBC spectra ( $\text{CD}_3\text{OD}$ ) of physodic acid.

**Table S1.**  $^1\text{H}$  (600 MHz,  $\text{CD}_3\text{OD}$ ) and  $^{13}\text{C}$  (600 MHz,  $\text{CD}_3\text{OD}$ ) NMR chemical shift ( $\delta$ , ppm) of phytosodic acid.

No.	$\delta_{\text{H}}$ (mult. J)	$\delta_{\text{C}}$
1		113.5
2		164.5
3	6.63 (d, 2.4)	106.9
4		163.9
5	6.55 (d, 2.4)	118.2
6		143.1
7		164.7
1'		114.5
2'		159.5
3'	6.63 (s)	107.5
4'		149.1
5'		142.9
6'		138.9
7'		173.1
1''	3.97 (s)	48.8
2''		209.6
3''	2.53 (t, 7.4)	43.2
4''	1.58 (m)	24.4
5''	1.29 (m)	32.5
6''	1.34 (m)	23.5
7''	0.91 (t, 7.2)	14.3
1'''	3.15 (ddd, 10.8)	28.9
2'''	1.62 (m)	32.0
3'''	1.49 (m)	33.4
4'''	1.43 (m)	23.5
5'''	0.96 (t, 7.4)	14.4