

Supporting information

In vitro* and *in vivo* activity of *Anogeissus leiocarpa* bark extract and isolated metabolites against *Toxoplasma gondii

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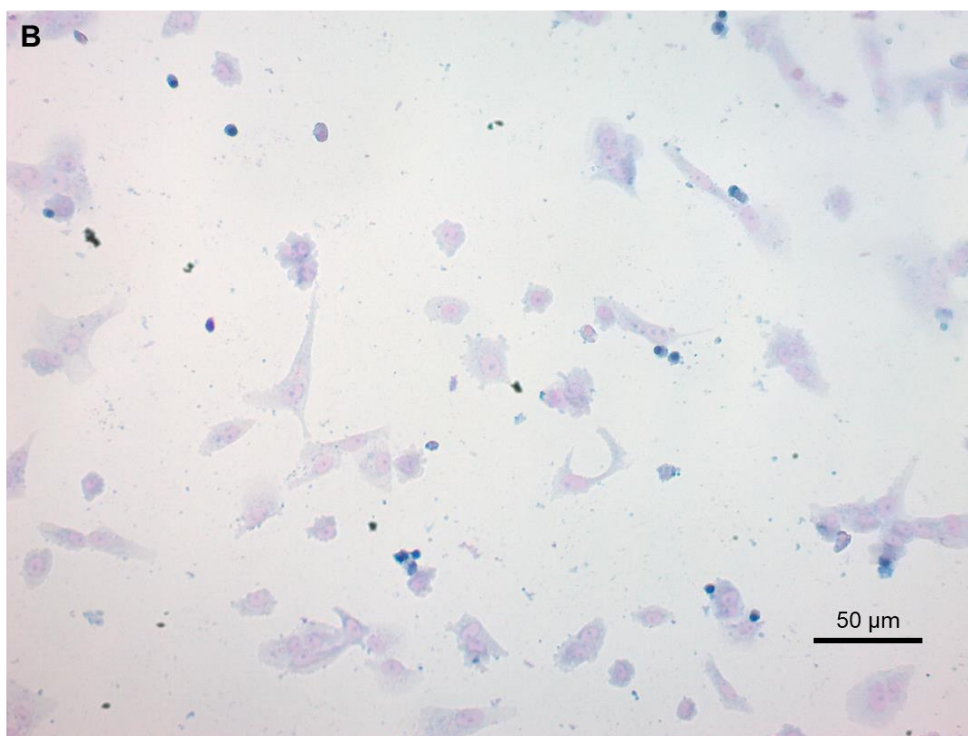
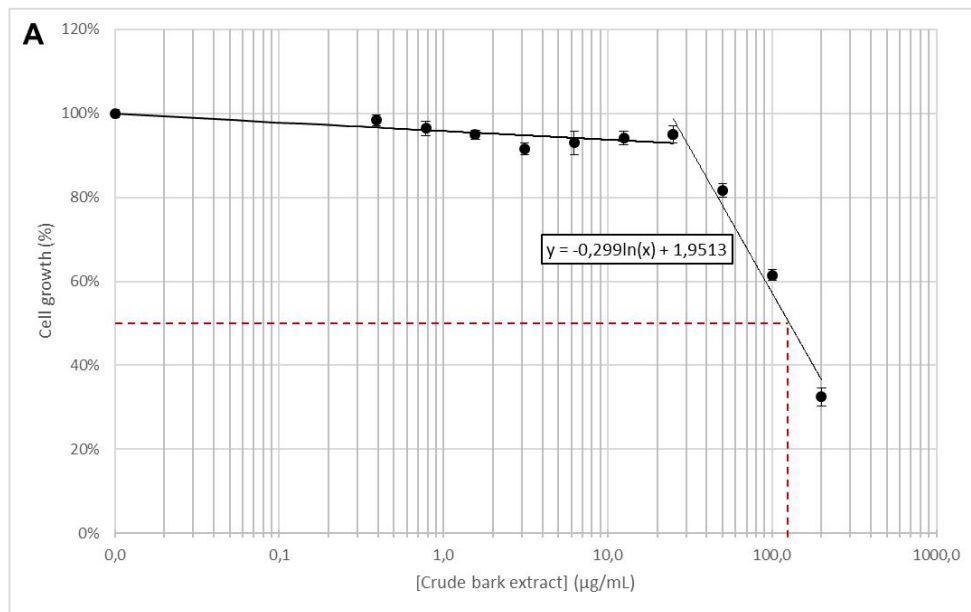
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1S Table: ^{13}C NMR spectral assignments (ppm) of *Anogeissus leiocarpa* metabolites. Samples were dissolved in 500 μL DMSO- d_6 and analyzed at 600MHz. **1:** sericoside; **2:** ellagic acid; **3:** 3,3'-di-O-methylellagic acid; **4:** 3,4,3'-tri-O-methylflavellagic acid; **5:** trachelosperogenin E; **6:** catechin.

Triterpenes			Ellagic acid derivatives				Flavanols	
carbon n°	5	1	carbon n°	2 ^a	3 ^b	4 ^c	carbon n°	6 ^d
1	47,1	47.2	1	112.6	112.0	111,4*	2	81.3
2	67,6	67.4	2	136.7	141.6	140.4*	3	66.6
3	77,4	84.2	3	139.9	140.6	152.0	4	28.2
4	39,3	43.3	4	148.4	152.6	133.7	4a	99.4
5	46,7	55.9	5	110.5	111.8	147.3	8a	155.7
6	18,8	19.2	6	107.9	112.5	97.7	8	94.1
7	32,6	32.2	7	159.5	158.8	161.2	7	156.5
8	40,3	39.5	1'	112.6	112.0	113.2*	6	95.4
9	47,8	47.8	2'	136.7	141.6	140.9*	5	156.8
10	37,6	37.9	3'	139.9	140.6	141.5	1'	130.9
11	23,7	23.8	4'	148.4	152.6	153.4	2'	114.8
12	122,5	122.5	5'	110.5	111.8	111.9	3'	145.1
13	143,8	143.6	6'	107.9	112.5	113.6	4'	145.1
14	41,4	41.3	7'	159.5	158.8	158.6	5'	115.4
15	28,2	28.3	OCH3		61.3	62.0	6'	118.7
16	28,7	32.9	OCH3		61.3	61.5		
17	45	45.6	OCH3			61.3		
18	43,5	43.4	1 xyl					
19	80,4	80.4	2 xyl					
20	35,2	35.1	3 xyl					
21	27,5	28.6	4 xyl					
22	32,8	27.6	5 xyl					
23	60,8	23.7	1 Glc					
24	62,8	64.2	2 Glc					
25	16,7	16.8	3 Glc					
26	16,9	16.9	4 Glc					
27	24,4	24.5	5 Glc					
28	179,5	176.2	6 Glc					
29	28,4	28.4						
30	24,8	24.8						
1 Glc		94.4						
2 Glc		72.7						
3 Glc		77.0						
4 Glc		69.8						
5 Glc		78.1						
6 Glc		61.0						

^a data similar to those reported by Pakulski and Budzianowski, 1996; ^b data similar to those reported by Sato et al., 1987; ^c data similar to those reported by Serafin et al., 2006; ^d data confirmed by analysing catechin standard in DMSO- d_6 ; *Values in the same column can be interchanged.

2S Fig. Cytotoxic activity of the crude bark extract from *Anogeissus leiocarpa* after 72 hours. Data were obtained by ELISA assay (A) and confirmed microscopically at 200 µg/mL (B) (magnification: 20x, bars represent 50 µm). Values are expressed as mean ± SD.



3S Fig. Optical microscopic observation of the RH strain of *T. gondii* growth in presence of each compound from *A. leiocarpa* for 72 h. Tachyzoites were cultured on Vero cells with the crude bark extract with (B) or without tannins (C), tannins (D), sericoside (E), methylated ellagic acid derivatives (F), ellagic acid (G), trachelosperogenin (H) and a mixture of trachelosperogenin I and catechin (H) for 72 h and compared to a non-treated control (A). Cultures were then fixed with methanol, stained with kit RAL 555 and microscopically observed (magnification: 40x, bars represent 100 μ m). Concentrations used were 100 μ g/mL except the concentration of the methylated ellagic acid derivatives that was 10 μ g/mL. Tachyzoites were indicated by arrows.

