

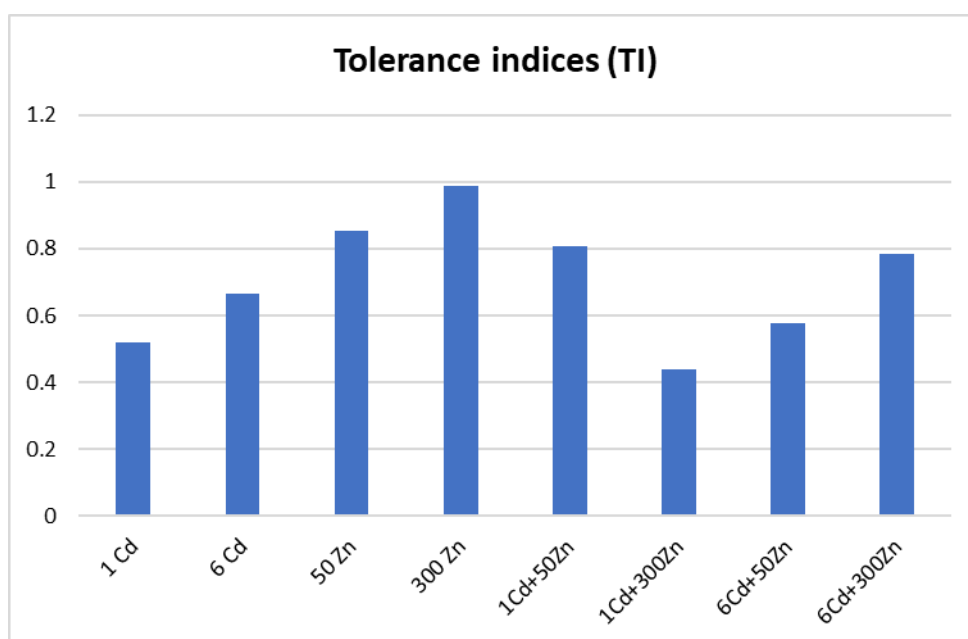
# Antioxidant activity and photosynthesis efficiency in *Melissa Officinalis* subjected to heavy metals stress

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**Figure S1.** Tolerance indices (TI) calculated for all Cd and Zn treatments

**Table S1.** Potentials, currents, partial and total activities as determined by CV (a) and DPV

(b) methods

(a)

No	Samples	Peak number	Potential (V)	Current ( $\mu\text{A}$ )	Partial activity ( $\mu\text{A/V}$ )	Total activity ( $\mu\text{A/V}$ )	Order in terms of activity
1	Control	1	1.26	25.0	20.0	<b>71.0</b>	<b>9</b>
		2	1.91	97.0	51.0		
2	1Cd	1	1.19	22.0	19.0	<b>80.0</b>	<b>8</b>
		2	1.94	118	61.0		
3	6Cd	1	1.91	198	104	<b>104</b>	<b>6</b>
4	50Zn	1	1.15	21.0	18.0	<b>95.0</b>	<b>7</b>
		2	1.67	55.0	33.0		
		3	1.96	86.0	44.0		
5	300Zn	1	0.98	17.0	17.0	<b>119</b>	<b>5</b>
		2	1.59	72.0	45.0		
		3	1.96	111	57.0		
6	1Cd+50Zn	1	0.90	17.0	19.0	<b>123</b>	<b>4</b>
		2	1.41	64.0	46.0		
		3	1.91	110	58.0		
7	1Cd+ 300Zn	1	0.95	14.0	15.0	<b>124</b>	<b>3</b>
		2	1.56	68.0	43.0		
		3	1.88	123	66.0		
8	6Cd+50Zn	1	1.22	24.0	19.0	<b>154</b>	<b>2</b>
		2	1.64	81.0	50.0		
		3	1.91	161	85.0		
9	6Cd+ 300Zn	1	0.28	14.0	49.0	<b>251</b>	<b>1</b>
		2	0.68	23.0	34.0		
		3	1.66	113	68.0		
		4	1.95	196	100		

(b)

No	Samples	Peak number	Potential (V)	Current ( $\mu$ A)	Activity ( $\mu$ A/V)	Total activity ( $\mu$ A/V)	Order in terms of activity
1	Control	1	0.79	2.42	3.06	<b>6.39</b>	<b>9</b>
		2	1.96	6.51	3.33		
2	1Cd	1	0.87	2.61	2.99	<b>6.63</b>	<b>8</b>
		2	1.99	7.22	3.64		
3	6Cd	1	0.24	2.20	9.36	<b>43.3</b>	<b>2</b>
		2	0.39	2.37	6.14		
		3	0.60	3.67	6.09		
		4	1.84	39.9	21.7		
4	50Zn	1	0.84	2.72	3.24	<b>11.0</b>	<b>7</b>
		2	1.66	5.15	3.11		
		3	1.88	8.74	4.65		
5	300Zn	1	0.87	3.24	3.75	<b>11.4</b>	<b>6</b>
		2	1.57	5.07	3.24		
		3	1.85	8.22	4.45		
6	1Cd+50Zn	1	0.90	3.71	4.15	<b>11.5</b>	<b>5</b>
		2	1.62	4.99	3.08		
		3	1.82	7.68	4.23		
7	1Cd+300Zn	1	0.92	2.54	2.78	<b>18.8</b>	<b>4</b>
		2	1.84	29.4	16.0		
8	6Cd+50Zn	1	1.54	4.10	2.66	<b>21.5</b>	<b>3</b>
			1.90	35.8	18.9		
9	6Cd+300Zn	1	0.23	10.7	45.9	<b>78.0</b>	<b>1</b>
		2	0.46	3.67	7.99		
		3	0.60	4.88	8.20		
		4	1.64	9.47	5.78		
		5	1.84	18.7	10.2		

**Table S2.** Metals content in the certified reference material (p = 0.95, n = 6).

<b>Metal</b>	<b>Certified value</b> <b>µg/g</b>	<b>Found</b> <b>µg/g</b>	<b>Recovery</b> <b>%</b>
<b>Cadmium</b>	0.199 ± 0.015	0.195 ± 0.010	98
<b>Zinc</b>	33.5 ± 2.1	34.2 ± 1.6	102
<b>Copper</b>	7.77 ± 0.53	7.65 ± 0.49	98
<b>Manganese</b>	191 ± 12	184 ± 10	96