

Supplementary Materials

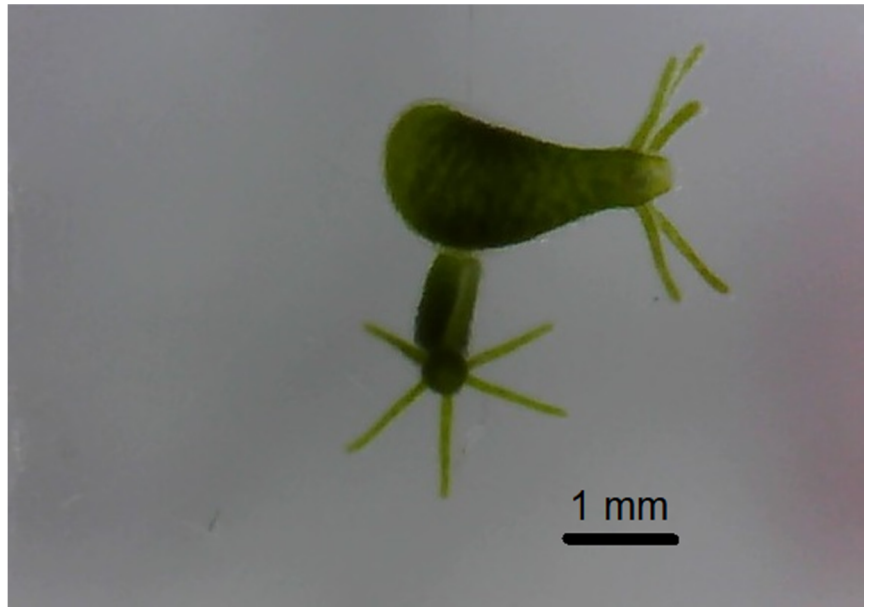


Figure S1. Green hydra, control (*Hydra viridissima* Pallas, 1766).



Figure S2. Brown hydra, control (*Hydra oligactis* Pallas, 1766).

Table S1. Morphological changes of tentacles in green hydra (% of analysed individuals) during the treatment with sodium metasilicate (SM).

Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Reduced number of tentacles (%)	Loss of tentacles (%)
DAY 1				
Control	0	0	0	0
0.050	70	0	0	0
0.365	0	0	0	10
0.380	0	7	10	40
0.390	0	10	10	33
Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Smaller number of tentacles (%)	Loss of tentacles (%)
DAY 2				
Control	0	0	0	0
0.050	17	0	0	0
0.365	0	7	3	0
0.380	0	0	23	3
0.390	21	0	27	7
Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Smaller number of tentacles (%)	Loss of tentacles (%)
DAY 3				
Solution	0	0	0	0
0.050	33	0	0	0
0.365	0	0	9	0
0.380	0	3	0	0
0.390	14	0	33	0

Table S2. Morphological changes of tentacles in brown hydra (% of analysed individuals) during the treatment with **sodium metasilicate (SM)**.

DAY 1				
Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Reduced number of tentacles (%)	Loss of tentacles (%)
Control	50	0	0	0
0.050	10	0	0	0
0.365	0	0	0	0
0.380	10	0	0	0
0.390	0	10	0	0
DAY 2				
Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Smaller number of tentacles (%)	Loss of tentacles (%)
Control	50	0	10	0
0.050	0	0	0	0
0.365	60	10	0	0
0.380	60	0	0	0
0.390	0	0	11	0
DAY 3				
Concentration of SM solution (g/L)	Long tentacles (%)	Short tentacles (%)	Reduced number of tentacles (%)	Loss of tentacles (%)
Control	44	0	11	0
0.050	70	0	10	0
0.365	0	10	10	40
0.380	0	0	0	20
0.390	0	0	14	29

Table S3. Response to mechanical stimuli in green hydra (% of analysed individuals) during the treatment with sodium metasilicate (SM).

DAY 1				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	100	0	0	0
0.050	100	0	0	0
0.365	97	3	0	0
0.380	57	0	43	0
0.390	100	0	41	0

DAY 2				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	100	0	0	0
0.050	100	0	0	0
0.365	34	66	0	0
0.380	100	0	0	0
0.390	100	0	0	0

DAY 3				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	100	0	0	0
0.050	100	0	0	0
0.365	100	0	0	0
0.380	97	3	0	0
0.390	65	0	35	0

Table S4. Response to mechanical stimuli in brown hydra (% of analysed individuals) during the treatment with sodium metasilicate (SM).

DAY 1				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	50	50	0	0
0.050	100	0	0	0
0.365	0	100	0	0
0.380	0	100	0	0
0.390	0	90	10	0

DAY 2				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	0	50	50	0
0.050	0	50	50	0
0.365	0	60	40	0
0.380	30	70	0	0
0.390	33	67	0	0

DAY 3				
Concentration of SM solution (g/L)	Normal excitability (%)	Lower excitability (%)	Low excitability (%)	No excitability (%)
Control	8	10	70	12
0.050	0	10	70	20
0.365	0	0	70	30
0.380	20	10	50	20
0.390	0	90	10	0

Table S5. Mortality of green and brown hydra.

DAY 1		
Concentration of SM solution (g/L)	Mortality of green hydra (%)	Mortality of brown hydra (%)
Control	0	0
0.050	0	0
0.365	0	0
0.380	0	0
0.390	3	0

DAY 2		
Concentration of SM solution (g/L)	Mortality of green hydra (%)	Mortality of brown hydra (%)
Control	0	0
0.050	0	0
0.365	6	0
0.380	0	0
0.390	3	10

DAY 3		
Concentration of SM solution (g/L)	Mortality of green hydra (%)	Mortality of brown hydra (%)
Control	0	10
0.050	0	0
0.365	0	0
0.380	0	0
0.390	7	22