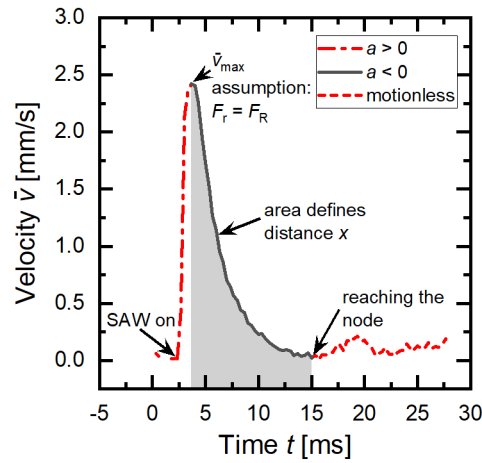


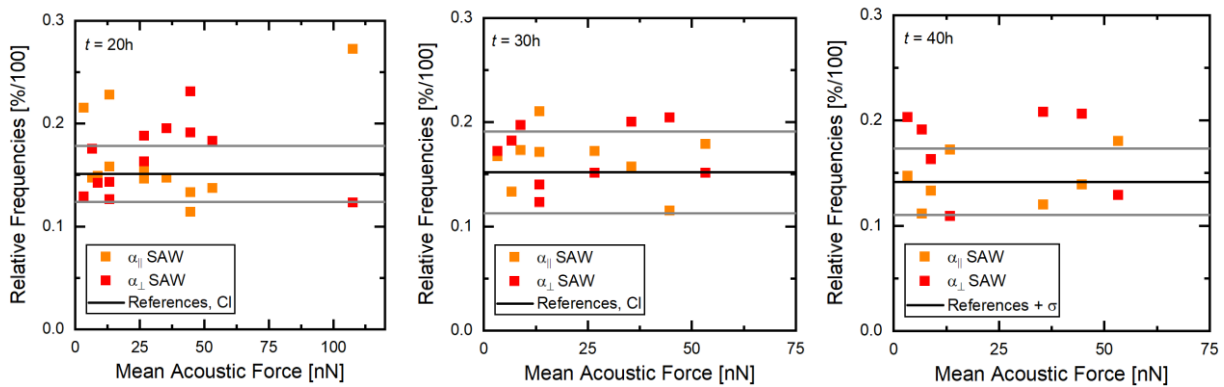
SUPPORTING INFORMATION TO

One-dimensional acoustic potential landscapes guide the neurite outgrowth and affect the viability of B35 neuroblastoma cells

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Supplementary figure 1 – Velocity of beads in a 2D SSAW field for the experimental determination of the acoustic force.

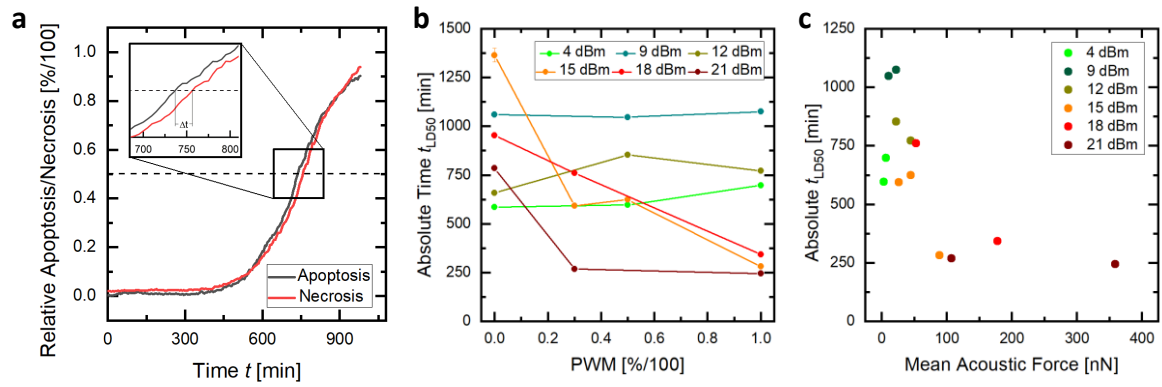


Supplementary figure 2 – Relative frequencies of neurites growing in preferential directions for $t = 20$ - 40 h (a-c) as a function of the mean acoustic force.

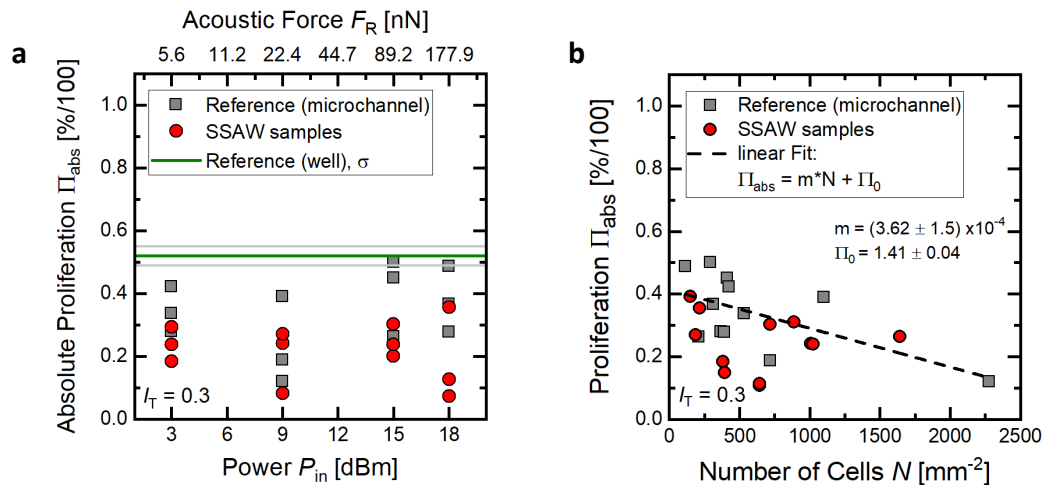
one-sided two-sample t test, $\alpha = 0.05$:

t [h]	df	t (parallel)	p (parallel)	t (perpendicular)	p (perpendicular)
10	13	1.115	0.149	1.961	0.043
20	13	1.064	0.159	0.004	0.499
30	10	2.208	0.029	0.461	0.672
40	8	1.280	0.118	0.424	0.341

Supplementary figure 3 – t , p and df values for a one-sided two-sample t test at $\alpha = 5$ %.



Supplementary figure 4 – a) Exemplary apoptosis and necrosis plot with the time difference Δt . b) Absolute t_{LD50} values for necrosis of all samples. c) Absolute t_{LD50} of all samples as function of the mean acoustic force.



Supplementary figure 5 – a) Single proliferation values of all samples. b) Proliferation as a function of cell density.