

Report

Generated by Multiwell-Analyzer 1.6.2.0

Test	2
Dose-Response-Curves	2
Lab Book	10
Experiment Settings	11
Test	12
Well A3	12
Well B3	12
Well C3	13
Well D3	14

1. Test

Dilution Series	Control, 10 μ M, Wash Out
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1.1. Dose-Response-Curves

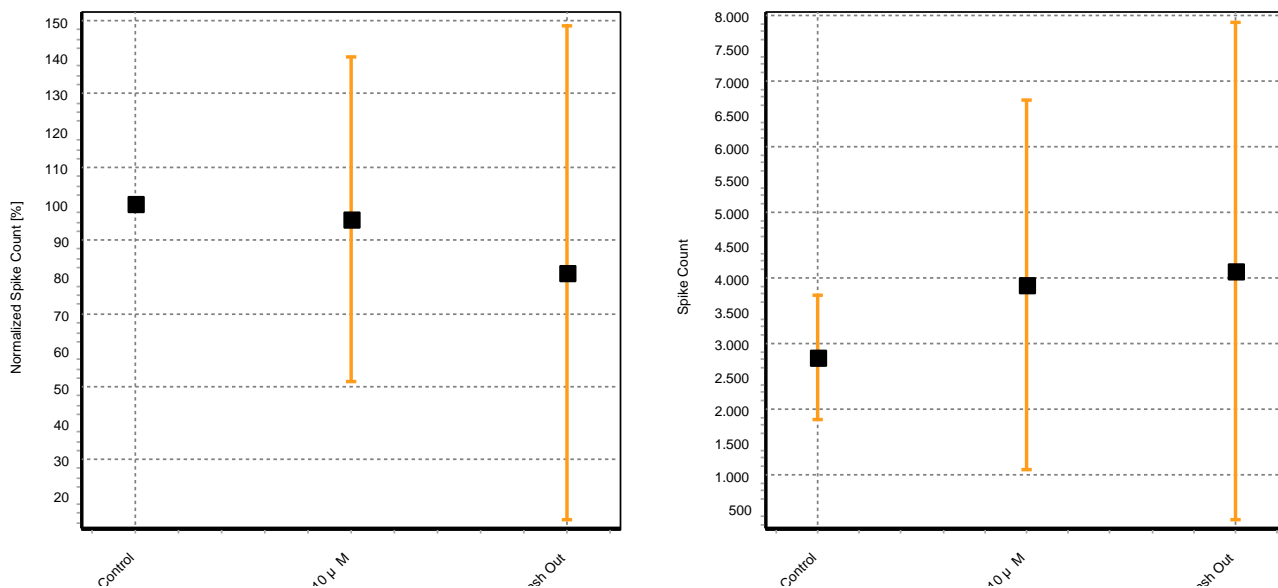


Figure 1.1: Dose-Response-Curves for Spike Count. Left: Normalized values, Right: Raw values

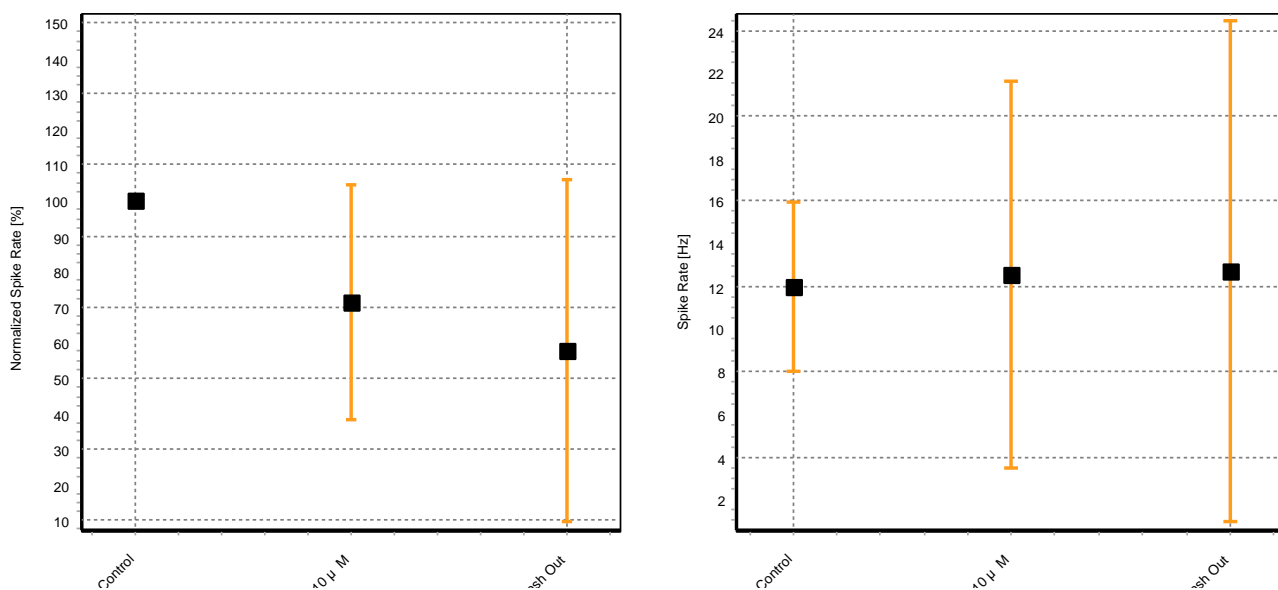


Figure 1.2: Dose-Response-Curves for Spike Rate. Left: Normalized values, Right: Raw values

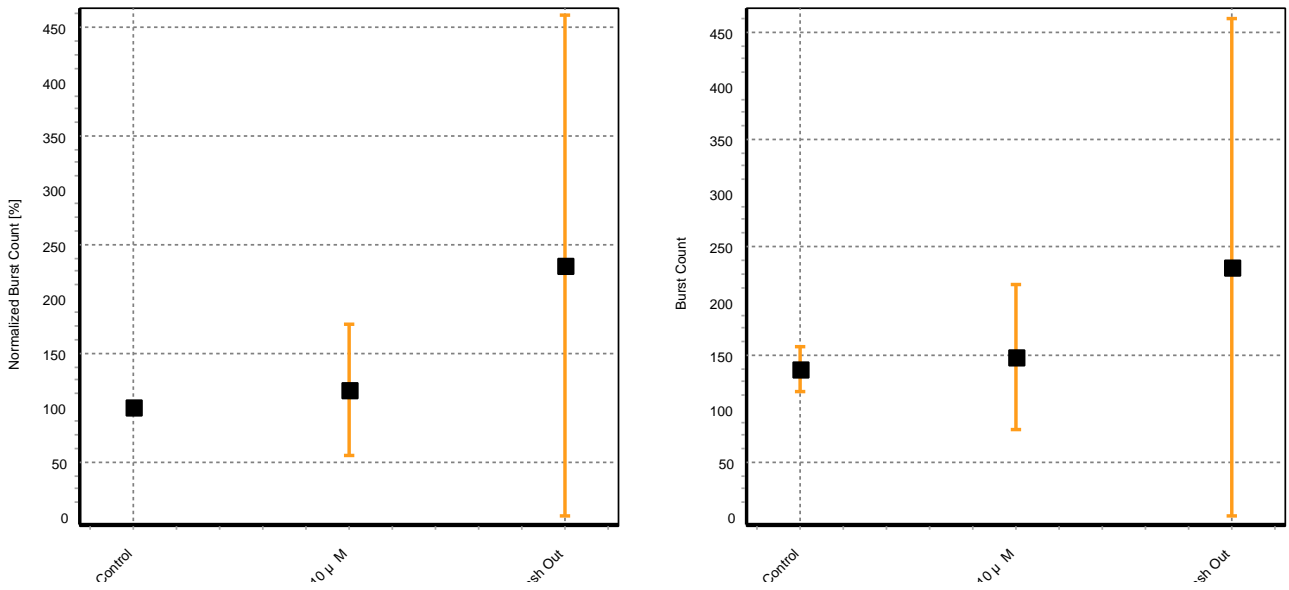


Figure 1.3: Dose-Response-Curves for Burst Count. Left: Normalized values, Right: Raw values

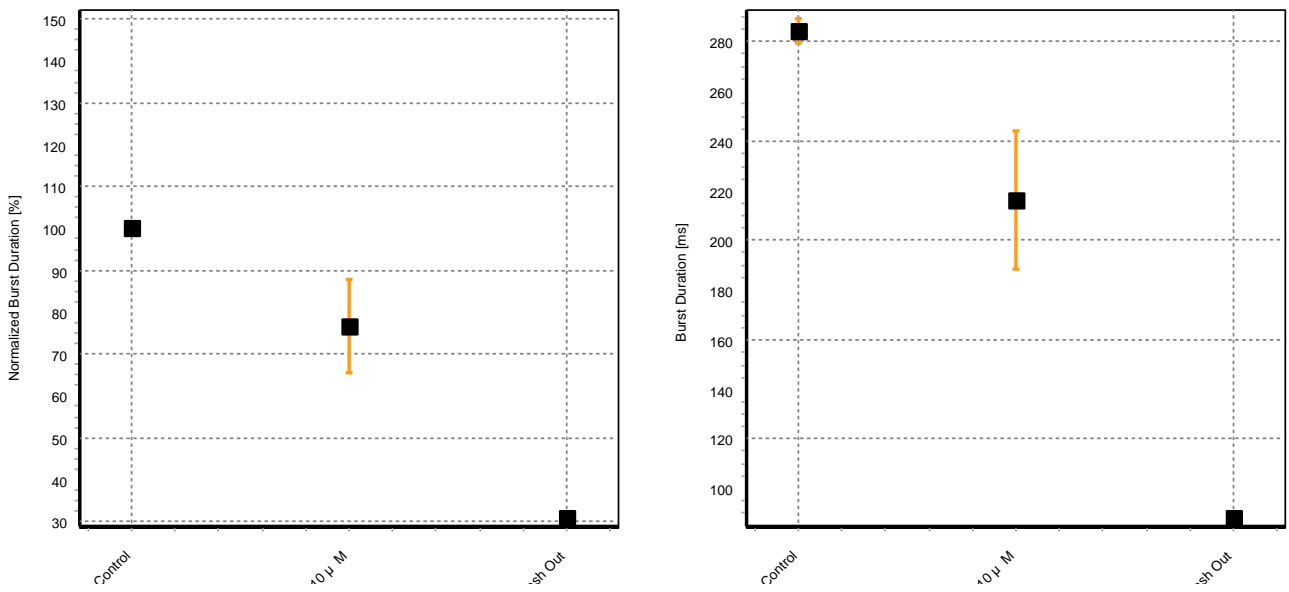


Figure 1.4: Dose-Response-Curves for Burst Duration. Left: Normalized values, Right: Raw values

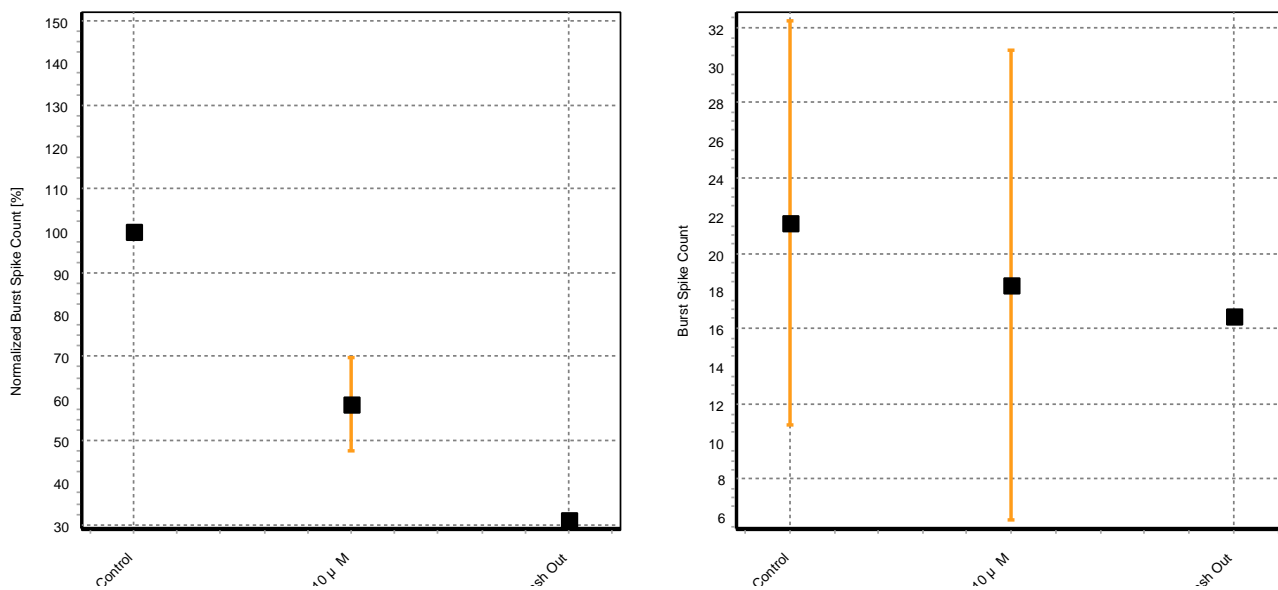


Figure 1.5: Dose-Response-Curves for Burst Spike Count. Left: Normalized values, Right: Raw values

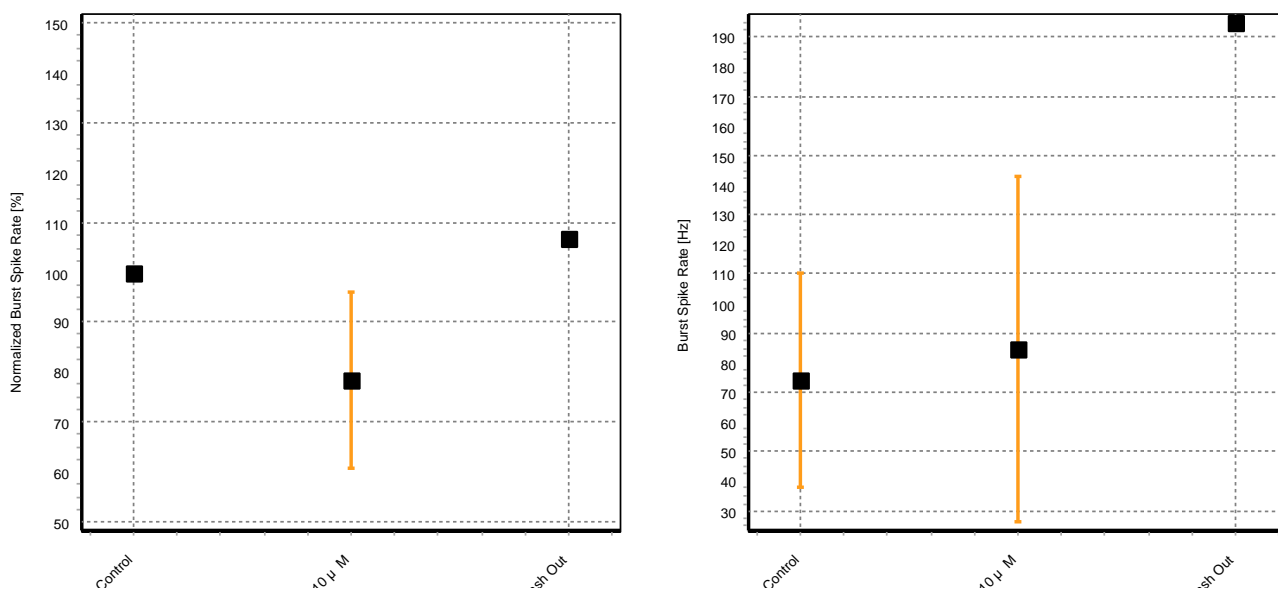


Figure 1.6: Dose-Response-Curves for Burst Spike Rate. Left: Normalized values, Right: Raw values

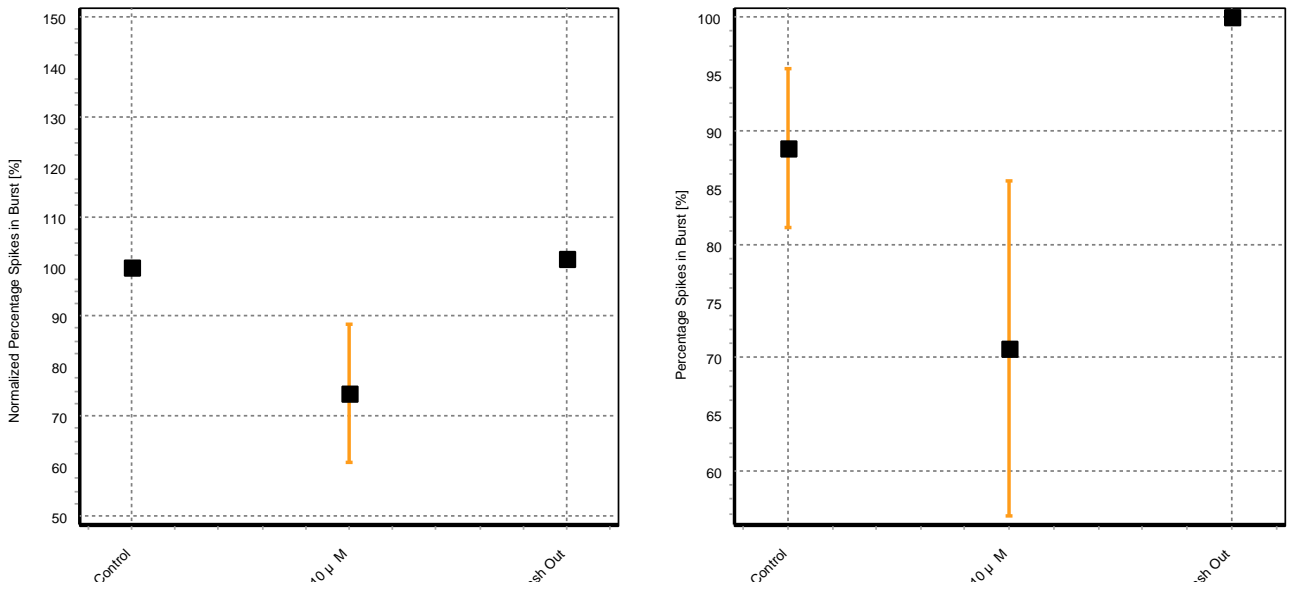


Figure 1.7: Dose-Response-Curves for Percentage Spikes in Burst. Left: Normalized values, Right: Raw values

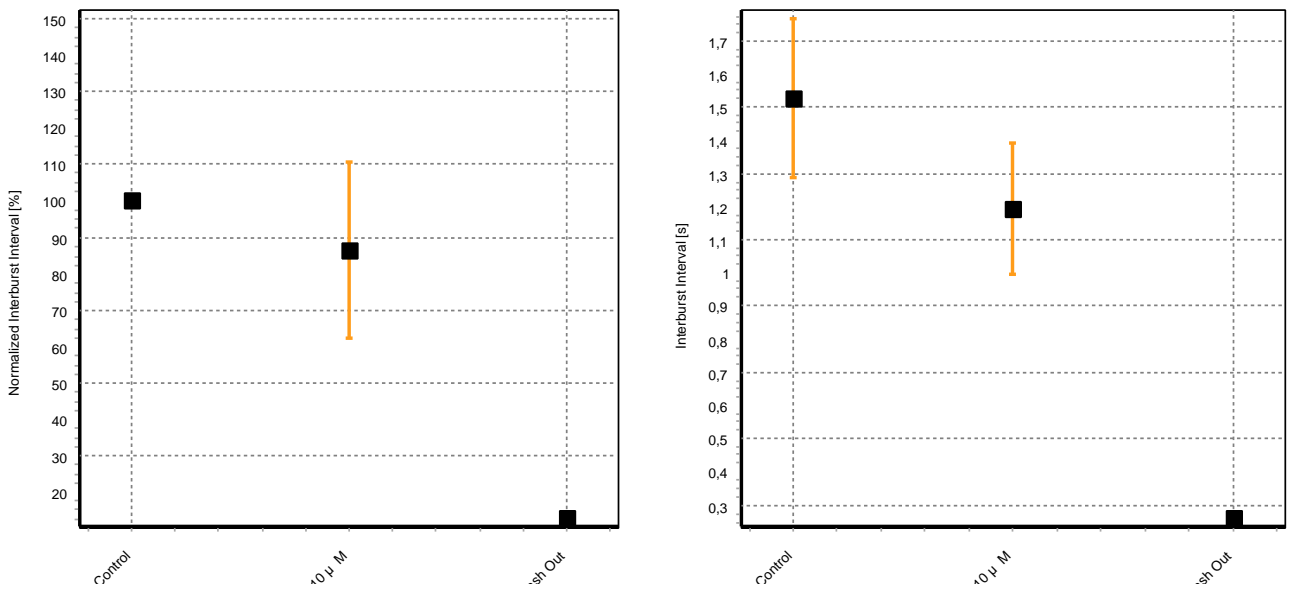


Figure 1.8: Dose-Response-Curves for Interburst Interval. Left: Normalized values, Right: Raw values

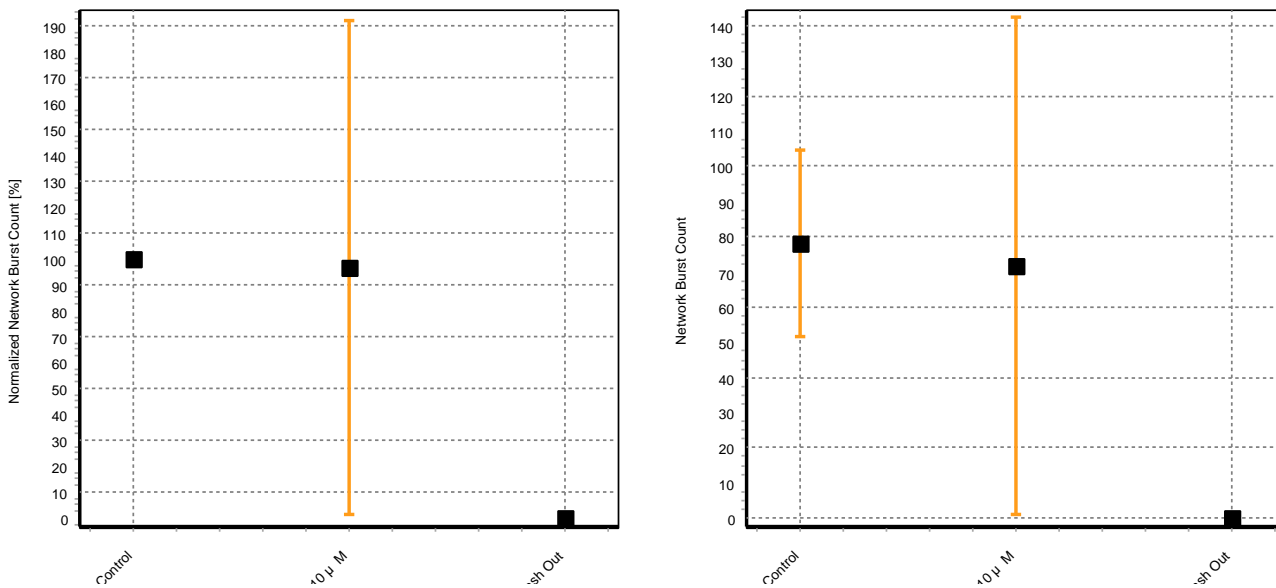


Figure 1.9: Dose-Response-Curves for Network Burst Count. Left: Normalized values, Right: Raw values

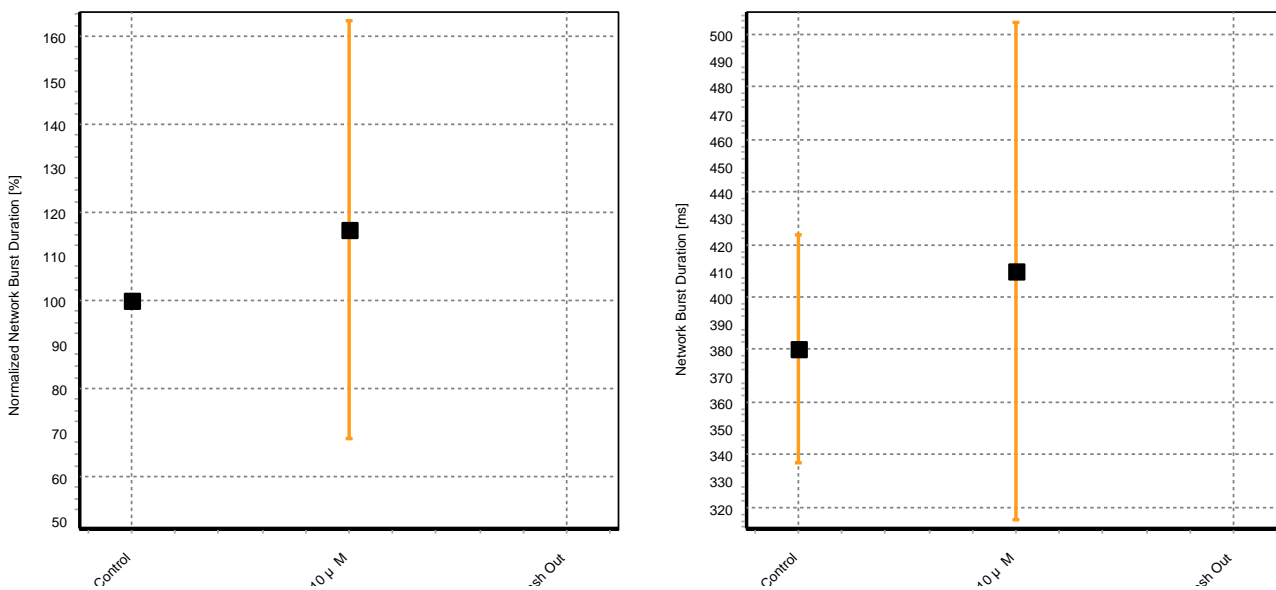


Figure 1.10: Dose-Response-Curves for Network Burst Duration. Left: Normalized values, Right: Raw values

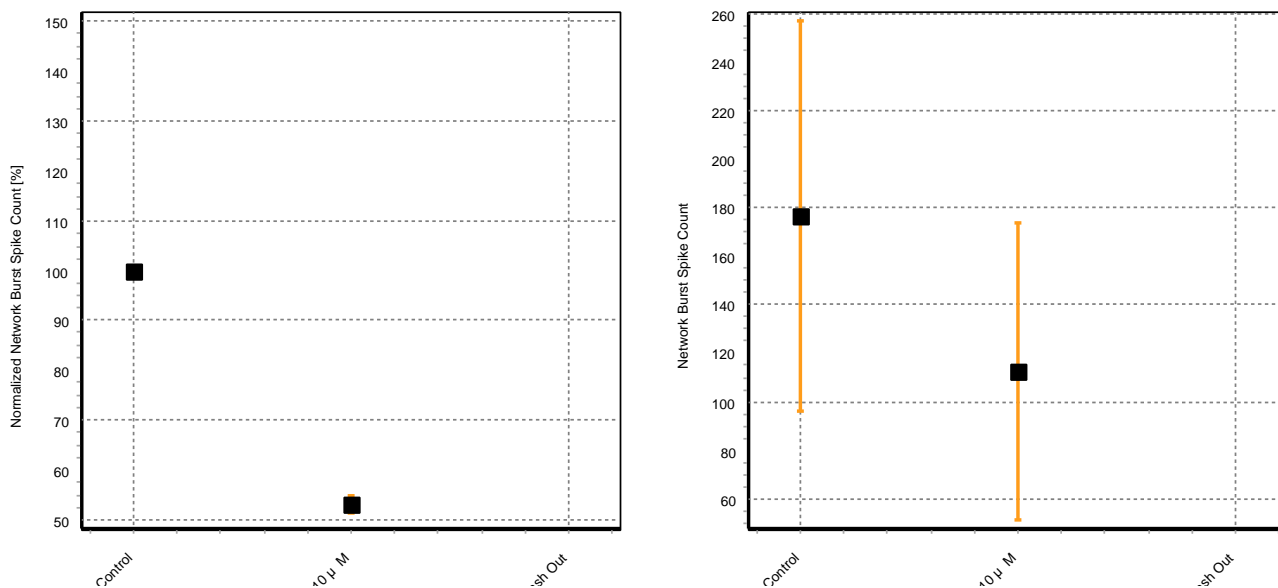


Figure 1.11: Dose-Response-Curves for Network Burst Spike Count. Left: Normalized values, Right: Raw values

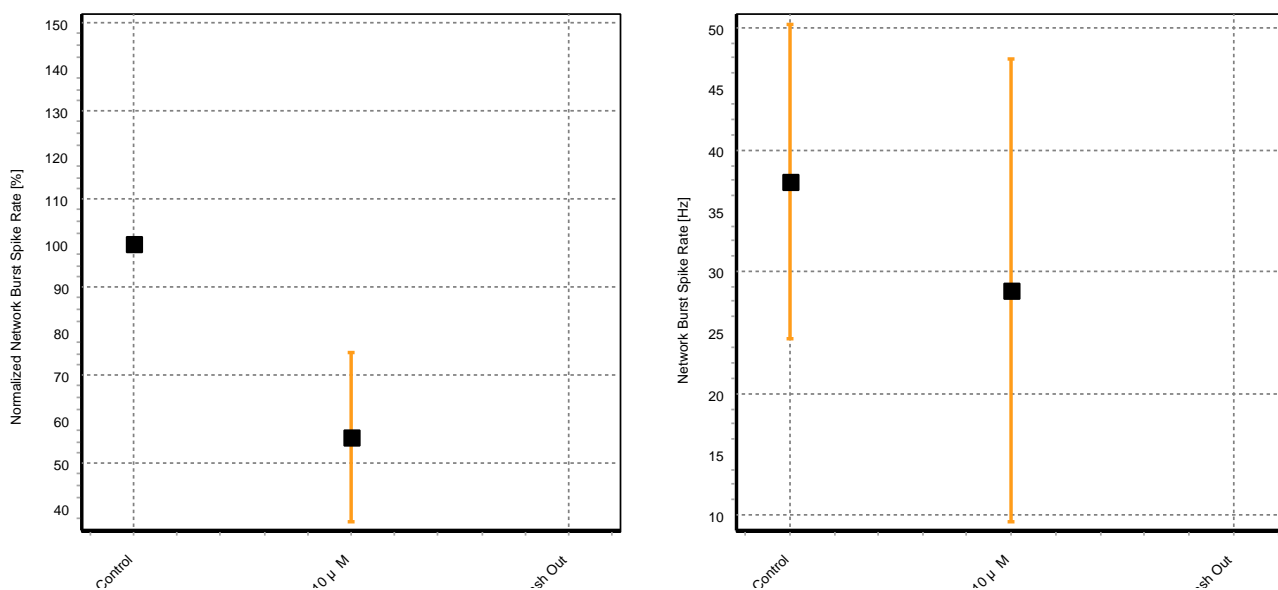


Figure 1.12: Dose-Response-Curves for Network Burst Spike Rate. Left: Normalized values, Right: Raw values

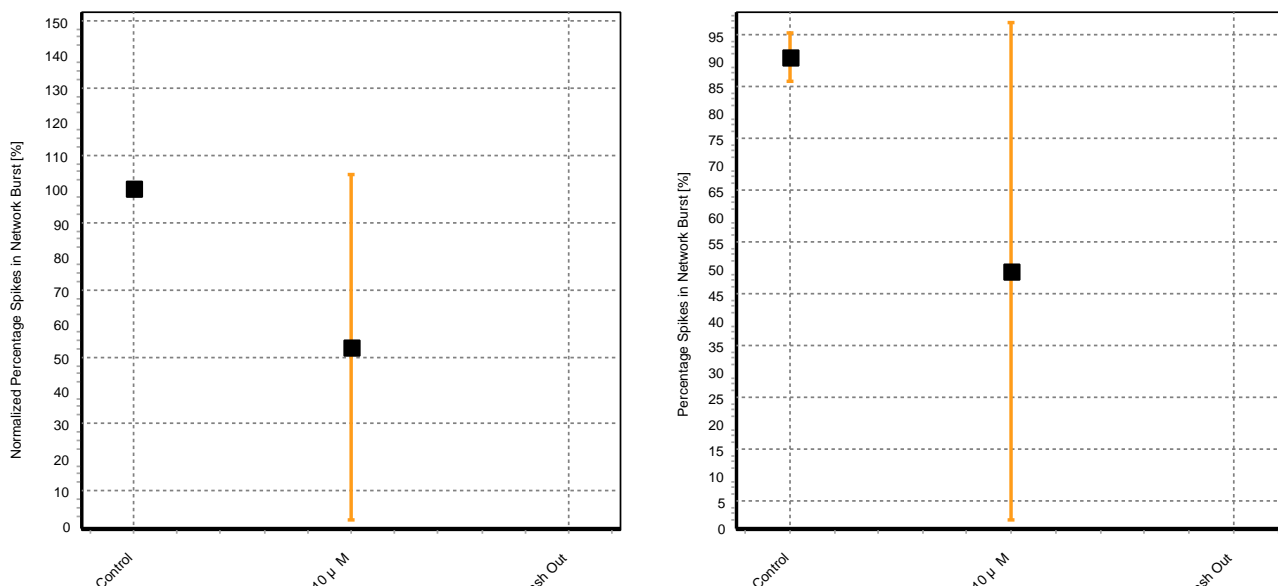


Figure 1.13: Dose-Response-Curves for Percentage Spikes in Network Burst. Left: Normalized values, Right: Raw values

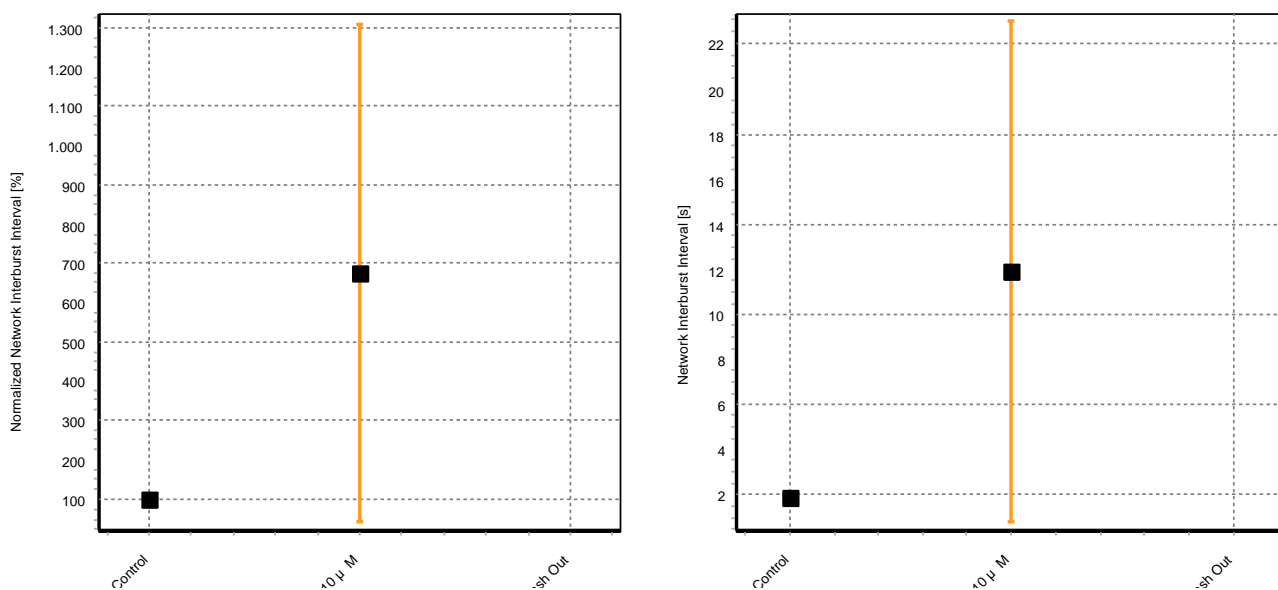


Figure 1.14: Dose-Response-Curves for Network Interburst Interval. Left: Normalized values, Right: Raw values

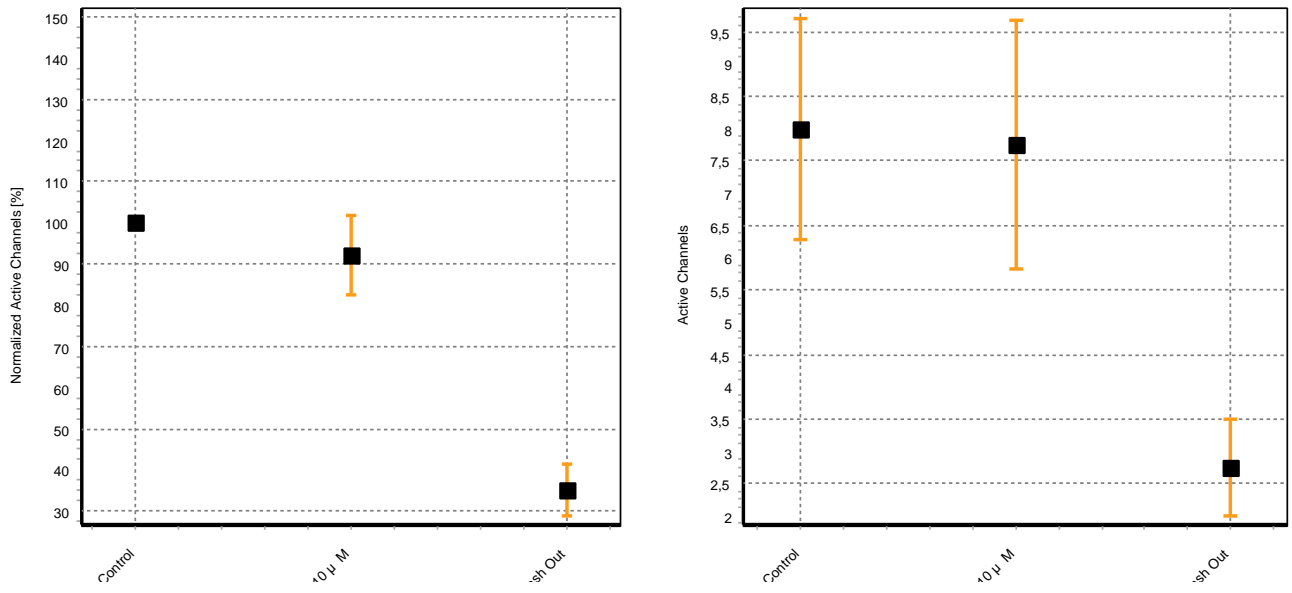


Figure 1.15: Dose-Response-Curves for Active Channels. Left: Normalized values, Right: Raw values

2. Lab Book

Institution	
Director	
Lab	
Scientist	
Operator	

Study ID	
Study Name	
Experiment ID	
Plate ID	
Cell Line ID	
Cell Line Name	
Cell Culture Age	0h
Dilution Medium	

Notes	
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3. Experiment Settings

Sampling Rate	20000 Hz
Low-Pass Filter Type	Bessel
Low-Pass Filter Order	4
Low-Pass Filter Cutoff Frequency	5000 Hz
High-Pass Filter Type	Bessel
High-Pass Filter Order	2
High-Pass Filter Cutoff Frequency	100 Hz
Plate Type	24-Well Plate Epoxy (24W700/100F-288)

Test Phase Recording Duration	Manual
Analyze Test Phase	Full

The image shows a 4x6 grid representing a 24-well plate. The columns are numbered 1 to 6, and the rows are lettered A to D. The cell at row 3, column 3 is highlighted in blue. All other cells contain a grey 'X' mark. To the right of the grid is a blue 'Test' button.

4. Test

ID	Test
Name	Test
Medium	
Dilution Series	Control, 10 μ M, Wash Out
Dosing Protocol	Cumulative
Notes	

4.1. Well A3

Selected Electrode: 13

Dose	Analysis Start	Analysis Duration
Control	0 s	231600 ms
10 μ M	0 s	310700 ms
Wash Out	0 s	324900 ms

Dose	Spike Count	Spike Rate [Hz]	Active Channels
Control	1597	6.8955	11
10 μ M	335	1.0782	10
Wash Out	0	0	2

Dose	Burst Count	Burst Duration [ms]	Burst Spike Count	Burst Spike Rate [Hz]	% Spikes in Burst	Interburst Interval [ms]
Control	135	287.5	8.252	27.982	69.756	1426.006
10 μ M	0					
Wash Out	0					

Dose	Network Burst Count	Network Burst Duration [ms]	Network Burst Spike Count	Network Burst Spike Rate [Hz]	% Spikes in Network Burst	Network Interburst Interval [ms]
Control	101	371.966	99.297	23.162	81.332	1924.036
10 μ M	0					
Wash Out	0					

4.2. Well B3

Selected Electrode: 34

Dose	Analysis Start	Analysis Duration
Control	0 s	231600 ms
10 μ M	0 s	310700 ms
Wash Out	0 s	324900 ms

Dose	Spike Count	Spike Rate [Hz]	Active Channels
Control	5505	23.7694	9
10 μ M	12245	39.411	10
Wash Out	15505	47.7224	4

Dose	Burst Count	Burst Duration [ms]	Burst Spike Count	Burst Spike Rate [Hz]	% Spikes in Burst	Interburst Interval [ms]
Control	101	285.975	53.693	182.749	98.51	2008.321
10 μ M	283	222.368	43.247	200.637	99.951	877.347
Wash Out	929	88.248	16.685	194.845	99.968	261.419

Dose	Network Burst Count	Network Burst Duration [ms]	Network Burst Spike Count	Network Burst Spike Rate [Hz]	% Spikes in Network Burst	Network Interburst Interval [ms]
Control	98	460.694	337.245	63.402	93.539	1903.449
10 μ M	283	315.082	173.41	47.485	97.588	784.548
Wash Out	0					

4.3. Well C3

Selected Electrode: 32

Dose	Analysis Start	Analysis Duration
Control	0 s	231600 ms
10 μ M	0 s	310700 ms
Wash Out	0 s	324900 ms

Dose	Spike Count	Spike Rate [Hz]	Active Channels
Control	1548	6.6839	9
10 μ M	818	2.6328	9
Wash Out	136	0.4186	4

Dose	Burst Count	Burst Duration [ms]	Burst Spike Count	Burst Spike Rate [Hz]	% Spikes in Burst	Interburst Interval [ms]
Control	114	270.264	13.544	48.264	99.742	1768.608
10 μ M	69	260.191	6.406	23.817	54.034	1566.879
Wash Out	0					

Dose	Network Burst Count	Network Burst Duration [ms]	Network Burst Spike Count	Network Burst Spike Rate [Hz]	% Spikes in Network Burst	Network Interburst Interval [ms]
Control	113	308.872	93.115	25.772	96.852	1748.078
10 μ M	3	505.25	51.333	9.472	1.41	22958.95
Wash Out	0					

4.4. Well D3

Selected Electrode: 12

Dose	Analysis Start	Analysis Duration
Control	0 s	231600 ms
10 μ M	0 s	310700 ms
Wash Out	0 s	324900 ms

Dose	Spike Count	Spike Rate [Hz]	Active Channels
Control	2481	10.7124	3
10 μ M	2150	6.9199	2
Wash Out	822	2.53	1

Dose	Burst Count	Burst Duration [ms]	Burst Spike Count	Burst Spike Rate [Hz]	% Spikes in Burst	Interburst Interval [ms]
Control	194	293.602	10.938	37.85	85.53	898.467
10 μ M	238	165.564	5.265	28.643	58.279	1143.252
Wash Out	0					

Dose	Network Burst Count	Network Burst Duration [ms]	Network Burst Spike Count	Network Burst Spike Rate [Hz]	% Spikes in Network Burst	Network Interburst Interval [ms]
Control	0					
10 μ M	0					
Wash Out	0					

