

General Info

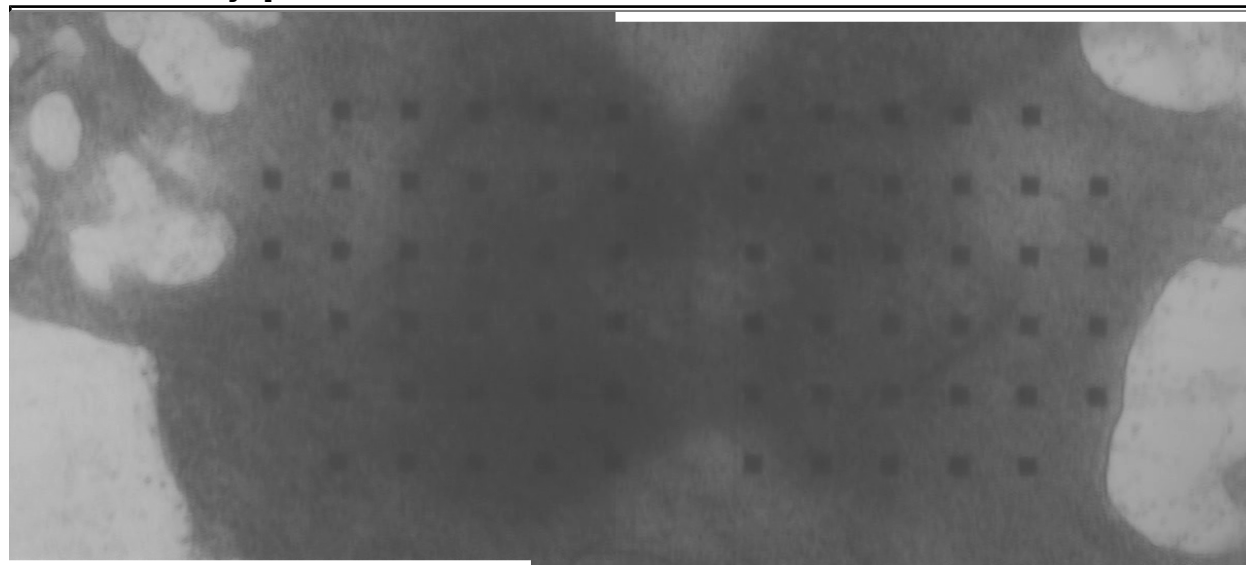
Experiment ID: ex100922_2SpOT.3
 Date of Culture: 18 Aug 2010
 Type of Culture: 2 Spinal Organotypic
 Drug Applied: TTX
 Date & Time Applied: 21-Sep-2010, 21:45
 Date & Time of Recording: 22-Sep-2010, 13:00

Recording Settings

Recording Channels: 4, 6, 9, 10, 11, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 37, 39, 40, 42, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

	1	x	62	59	56		55	52	49	x	46	
4	2	0	63	60	57		54	51	48	47	45	43
6	5	3	7	61	58		53	50	40	44	42	41
9	10	12	8	18	21		26	29	39	35	37	38
11	13	15	16	19	22		25	28	31	32	34	36
	14	x	17	20	23		24	27	30	x	33	

Culture-MEA Photograph



Details

Unless otherwise noted, all recordings were 10min long and saved in the directory D:/mingfaifong/experiments/ex100922_2SpOT.3/

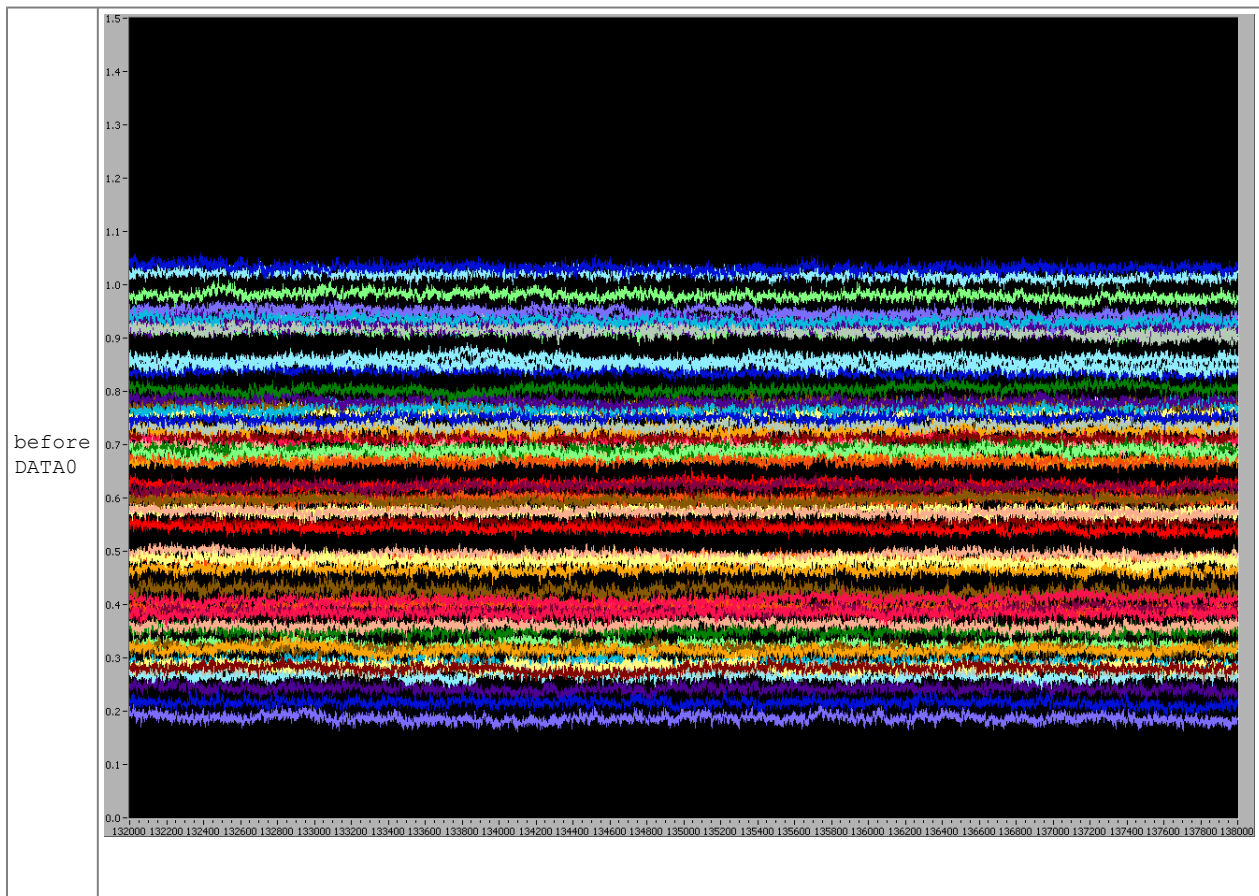
Real Time	Treatment	Filename	Notes
	0.5uM TTX	DATA0.SCL	channels look great, though obviously no bursting
	0.5uM TTX	DATA01.SCL	same
	normal extracellular solution	DATA02.SCL	washed once 3x. saw no activity. immediately lost channels 1 through 13. waited 10 minutes. watched again 3x. lost channel 22. waited 10min. still nothing. washed again. 5min later i start to see some activity come back on left side. yes! TTX seems pretty difficult to wash out. i'll wash one more time for good measure, wait 5 min, then record. unfortunately, during the washing process i have now lost:

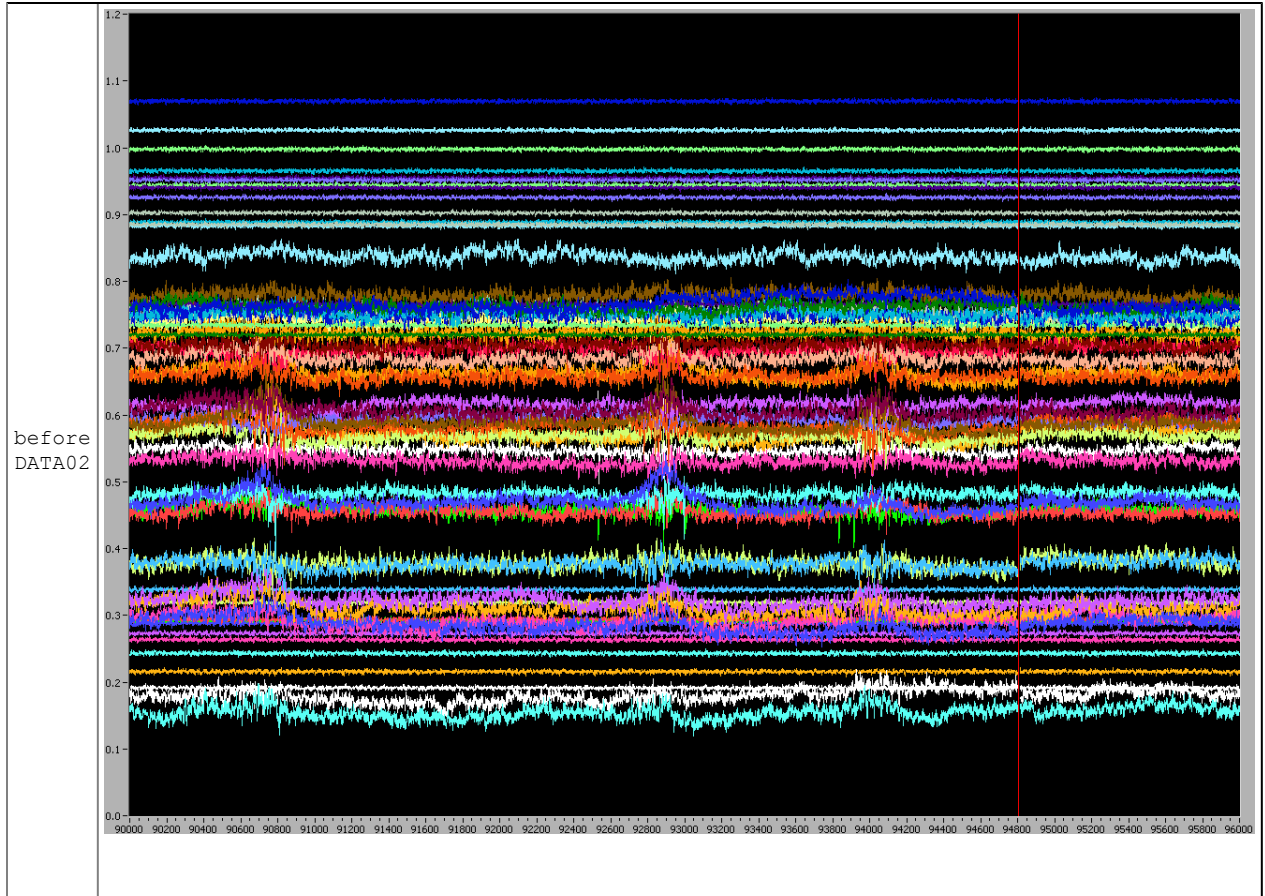
			0,1,2,3,4,5,6,7,8,9,10,11,12,13,17,22,23,54,55,56,57,58,59,60,61,62,63... there is probably a leak somewhere.
normal extracellular solution	DATA03.SCL		recorded immediately after DATA02. not so bursty. i'm an idiot and accidentally closed the acquisition window early (i think) but it was pretty close to 10 minutes already.

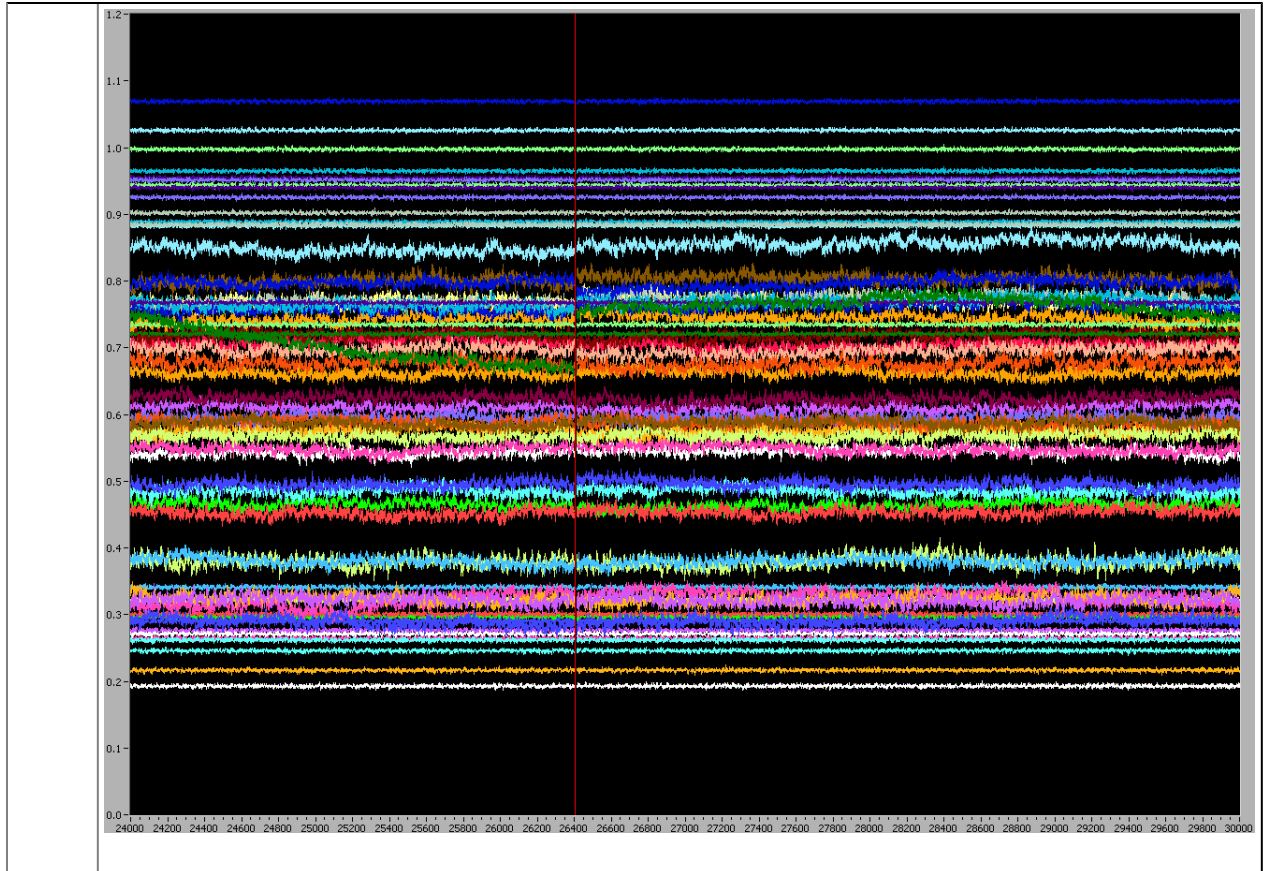
Pre-amp Problems

I've been having some problems with the headstage making good contact with the pre-amp, and this is (I think exacerbated by the humid environment. For this reason, some contacts look great early on, slowly drop out as the experiment progresses, and become particularly horrible when I perfuse in new solutions. In the next couple experiments I'll be trying different things and documenting performance.

Each the screenshots shows channels that were selected at the beginning of the recording. Those that are saturating out are the ones with flat waveform and low RMS.







Bursting

Some screenshots of bursting during select recordings.

