General Info

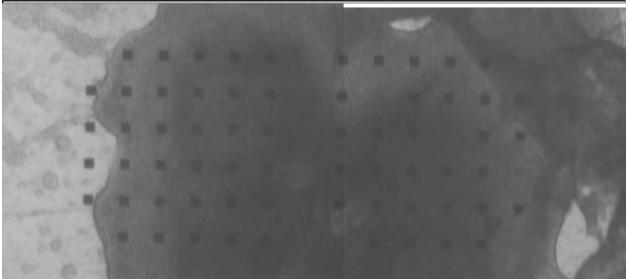
Experiment ID: ex100922_2SpOT.5 Date of Culture: 18 Aug 2010 Type of Culture: 2 Spinal Organotypic Drug Applied: gabazine + strychnine Date & Time Applied: 21-Sep-2010, 15:00 Date & Time of Recording: 22-Sep-2010, 16:22

Recording Settings

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

	1	х	62	59	56	55	52	49	х	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	ж	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.5/

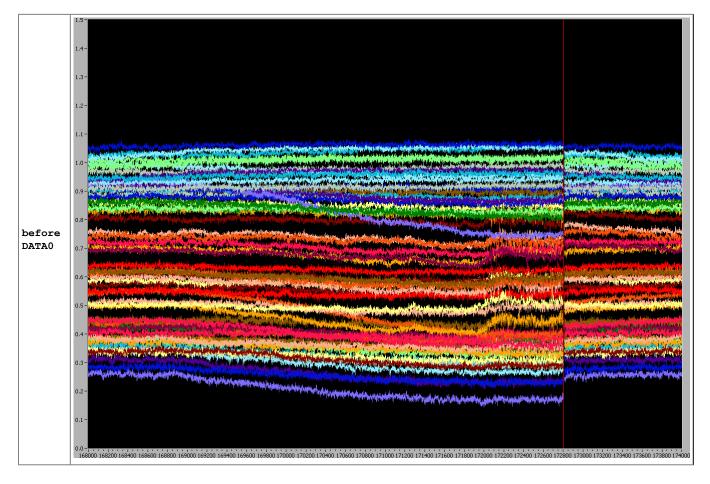
Real Time	Treatment	Filename	Notes
	luM strychnine + 10uM gabazine	DATA0.SCL	channels look great!
16:30-16:40	luM strychnine + 10uM gabazine	DATA01.SCL	bursting activity is frequent and healthy- looking
	normal extracellular solution	DATA02.SCL	two washes of 3x each, 8min apart. still bursting difficult to tell whether inhibitory blockers aren't washed out, or it's just bursty from slosh seems like burst amplitude might be smaller but not sure.

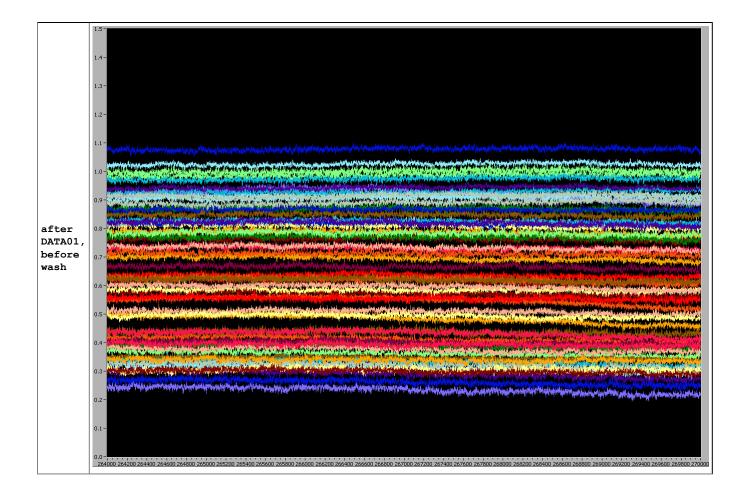
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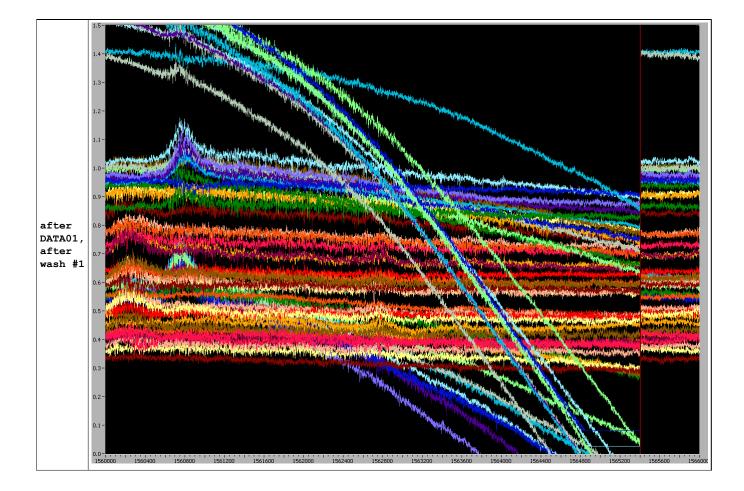
Pre-amp Problems

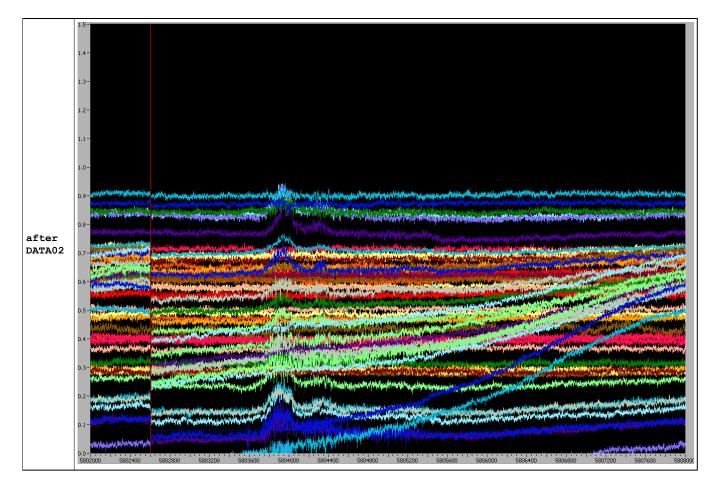
I've been having some problems with the headstage making good contact with the pre-amp, and this is (I think exacerbated by the humid environment. For this reason, some contacts look great early on, slowly drop out as the experiment progresses, and become particularly horrible when I perfuse in new solutions.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









The strategy that seems to work is to loosen the two bolts holding the right half of the array to the headstage about 1/2 a turn each. It is likely that the plastic spacer is slightly deformed such that the left side is not sitting as snuggly. This approach alleviates this problem (at least seems to do so). In addition, I am removing the chamber from the pre-amp before changing perfusion solutions so that I can be as gentle as possible.

Bursting

Some screenshots of bursting during select recordings.

DATA0

