Ming-fai Fong
22 Sep 2010

General Info

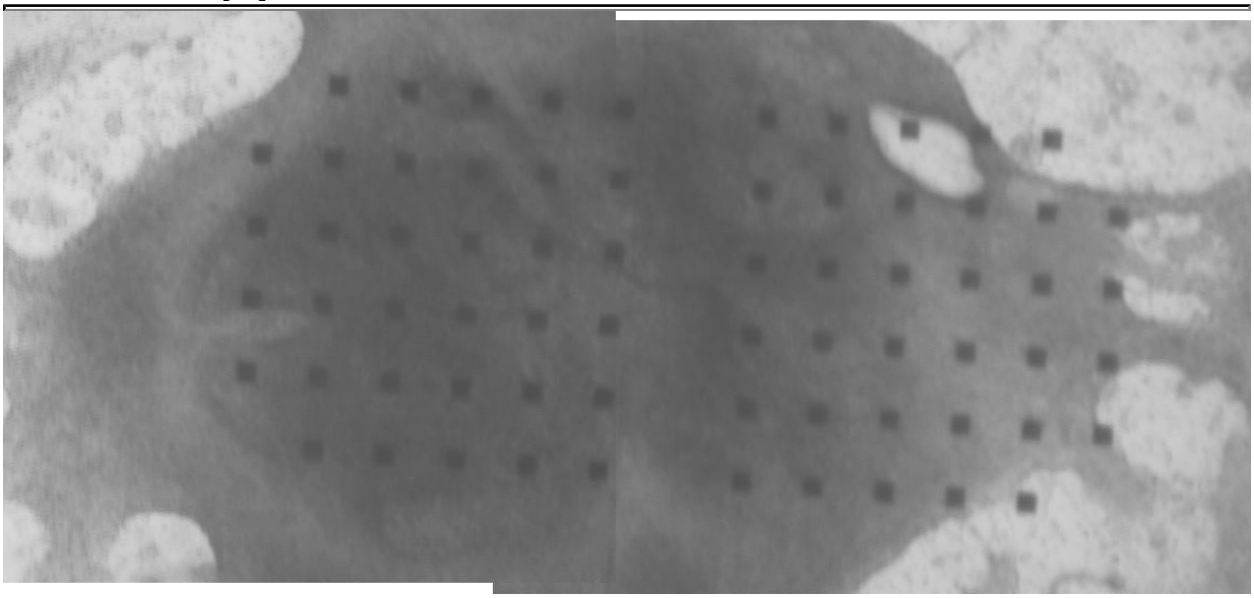
Experiment ID: ex100922_2SpOT.2
Date of Culture: 18 Aug 2010
Type of Culture: 2 Spinal Organotypic
Drug Applied: gabazine + strychnine
Date & Time Applied: 21-Sep-2010, 21:45
Date & Time of Recording: 22-Sep-2010, 11:32

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.2/

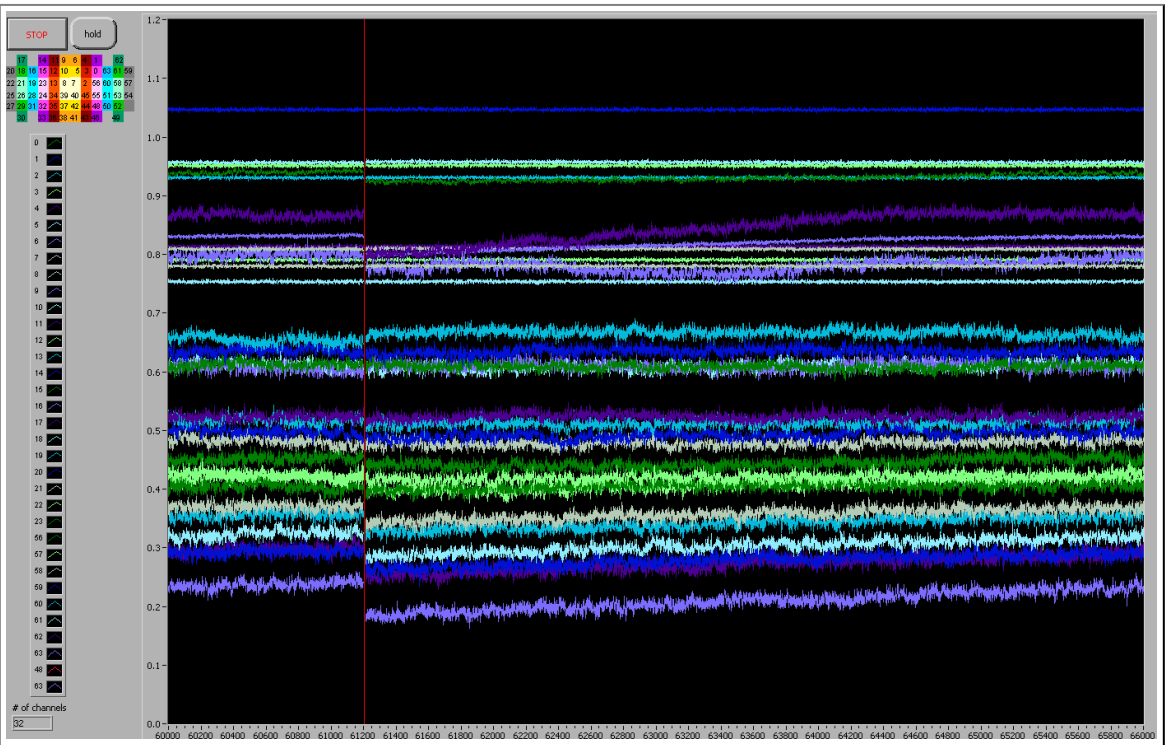
Real Time	Treatment	Filename	Notes
11:30-11:40	1uM strychnine, 10uM gabazine	DATA0.SCL	already channels began to disappear after selection; nice big bursts
11:45-11:55	1uM strychnine, 10uM gabazine	DATA01.SCL	recorded immediately after DATA0. less bursting than DATA01, especially not much on left side.
12:11-12:21	normal extracellular solution	DATA02.SCL	washed once 3x. waited 8 minutes. watched again 3x. waited 7min. began recording. pretty bursty.

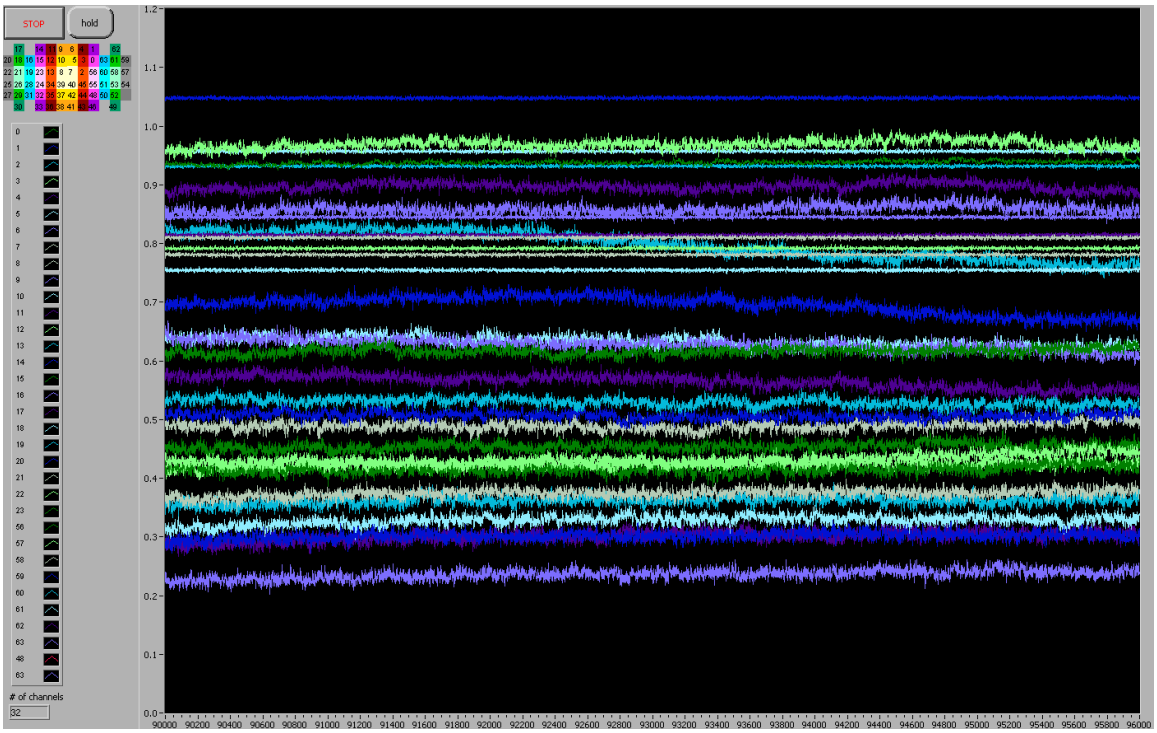
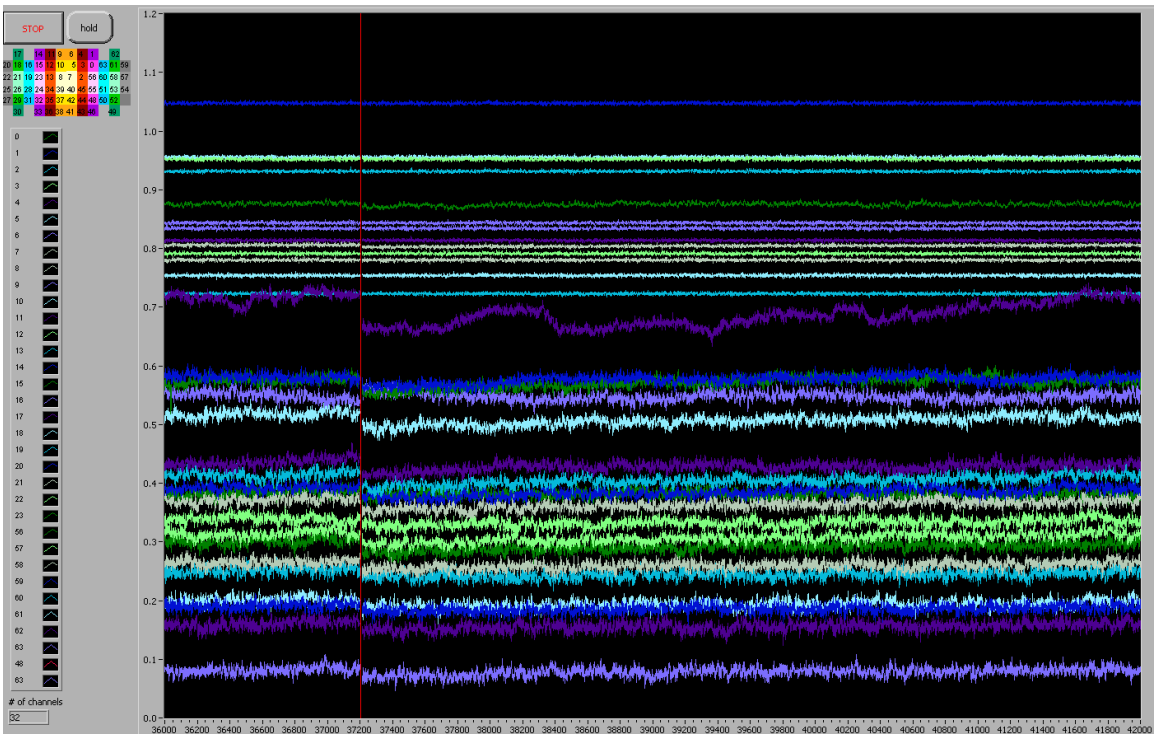
12:22-12:32	normal extracellular solution	DATA03.SCL	recorded immediately after DATA02. not so bursty. i'm an idiot and accidentally closed the acquisition window early (i think) but it was pretty close to 10 minutes already.

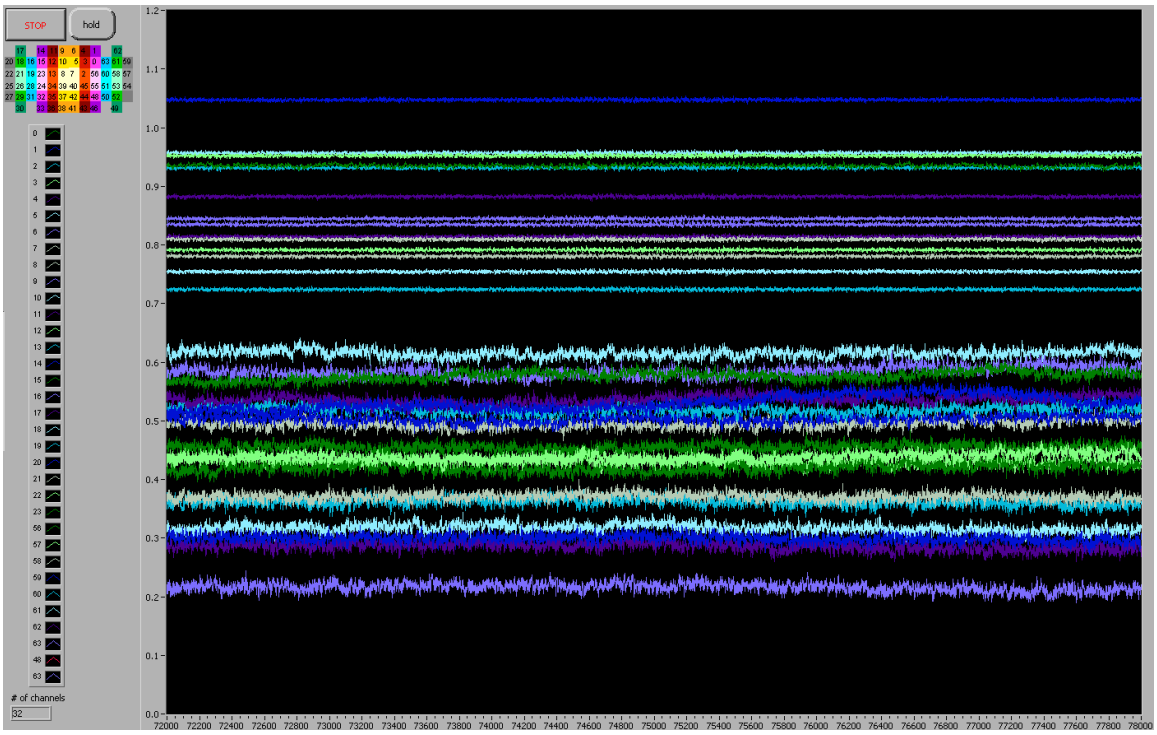
Pre-amp Problems

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

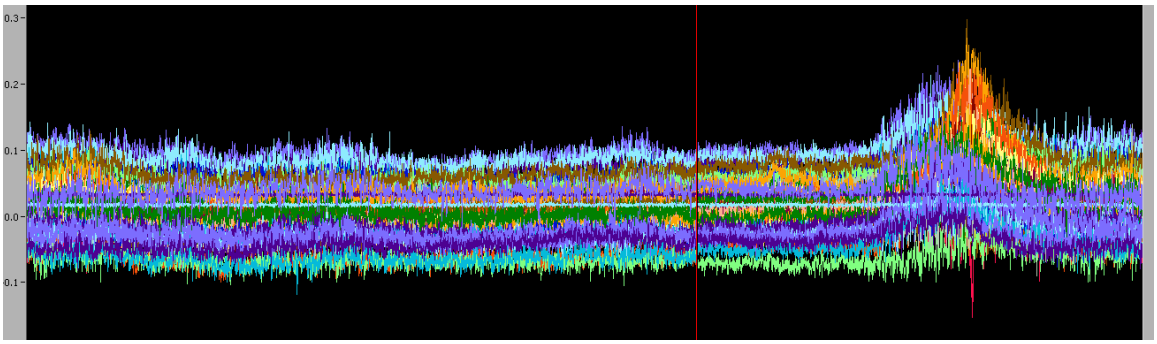
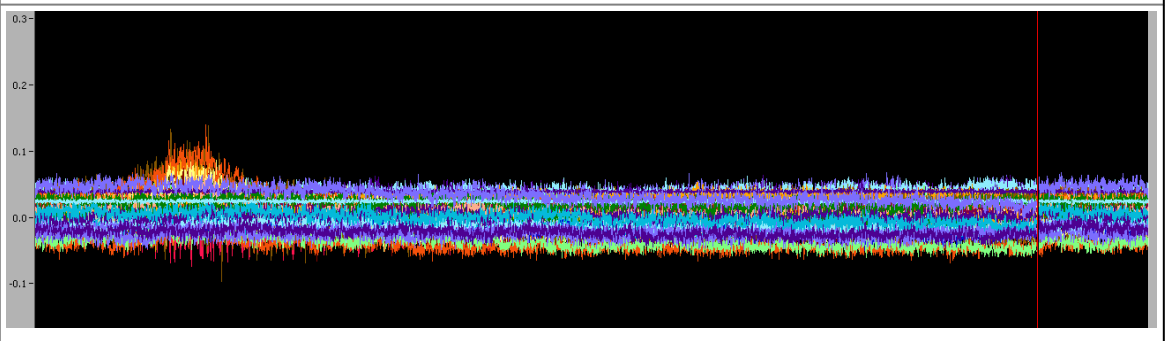
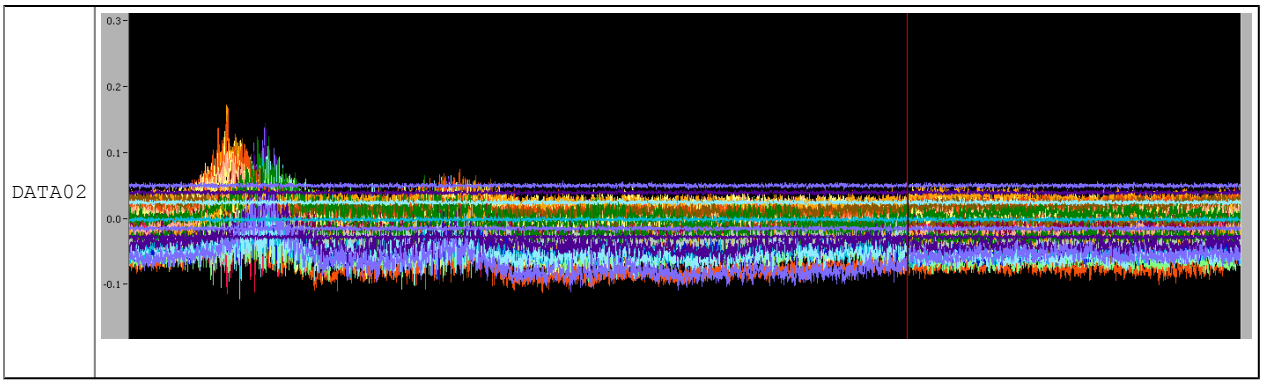
after DATA0	

after DATA01	
before DATA02	

after DATA02	

Bursting

Some screenshots of bursting during select recordings.

DATA0	
DATA01	

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