

Electrode Pulling

- remember to test air flow through tubing

Heat	Resistance
790	12 M Ω
	12 M Ω
	25 M Ω
770	8.8 M Ω
	8.4 M Ω
750	9.5 M Ω
	8.7 M Ω
745	1.6 M Ω
	1.4 M Ω
740	1.1 M Ω
	1.3 M Ω
730	1.0 M Ω

Heat	Resistance
730	1.1 M Ω
	1.4 M Ω

June 17th

OmNaV1 xTPF, using low resistance, agarose-attached electrodes

oocyte 1

Arg002/06/7000-002 act/inact
 0003-005 ramp
 AV000 006-008 act/inact w/CLS
 009-011 ramp w/CLS
 Sub Files: Av0-1; Av2-3

012-014 act/inact - Arg003
 015-017 ramp AV001
 018-020 act/inact w/CLS
 021-023 ramp w/CLS

oocyte 2

Arg004-024-026 act/inact
 027-029 ramp
 Arg006-030-32 act/inact w/CLS
 033-035 ramp w/CLS
 Sub Files: Av4-5; Av6-7

TTX

036-038 act/inact - Arg005
 039-041 ramp Arg007
 042-044 act/inact w/CLS
 045-047 ramp w/CLS

oocyte 3

TTX

Aug 8 048-049 act/mut
050-051 ramp
Aug 10 052-053 act/mut w/CS
054-055 ramp w/CS
Sub files: Av 8-9, Av 10-11

056-057 act/mut - Aug 9
058-059 ramp Aug 11
060-061 act/mut w/CS
062-063 ramp w/CS

oocyte 4 - 100 mM NiCl_2 ; 1 mM CaCl_2

Aug 12 064-065 act/mut
066-067 ramp
Aug 14 068-069 act/mut w/CS
070-071 act/mut w/CS
Sub files: Av 12-13, Av 14-15

072-073 act/mut - Aug 13
074-075 ramp Aug 15
076-077 act/mut w/CS
078-079 act/mut w/CS

oocyte 5 - 100 mM NiCl_2 ; 1 mM CaCl_2

TTX

080-081 act/mut
082-083 ramp
084-085 act/mut w/CS
086-087 ramp w/CS

088-089 act/mut
090-091 ramp

oocyte 6 - normal ND96

Aug 16 093-094 act/mut
095-096 ramp
Aug 18 097-098 act/mut w/CS
099-100 ramp w/CS

098-101-102 act/mut Aug 17
103-104 ramp Aug 19
105-106 act/mut w/CS
107-108 ramp w/CS

Sub files: Aug 16-17, Av 18-19

June 18, 2010 - Dm NaV 30 & TPE & virtual ground

ocyte 1 - with agarose - 2 M Ω

Aug 000

TTX

Aug 001

10618 000-002 act/inact

00012-014 act/inact

003-005 ramp

015-017 ramp

Aug 003

Aug 002 006-008 act/inact w/o CS

018-020 act/inact w/o CS

009-011 ramp w/o CS

021-023 ramp w/o CS

012

Sub files: Av 0-1, Av 2-3

ocyte 2 - without agarose (5 M Ω)

Aug 004- 024-025 act/inact

032-033 A/I - Aug 005

026-027 ramp

034-035 ramp

Aug 006- 028-029 A/I w/o CS

036-037 A/I w/o CS Aug 007

030-031 ramp w/o CS

038-039 ramp w/o CS

Sub files: Av 4-5, Av 6-7

ocyte 3 - w/o agarose

TTX

Av 008- 040-041 A/I

048-049 A/I - Av 009

042-043 ramp

* 052-053 ramp - Av 011

Av 010- 044-045 A/I w/o CS

* 050-051 A/I w/o CS

046-046 ramp w/o CS

054-055 ramp w/o CS

Sub files: Av 8-9, Av 10-11

ocyte 4 - w/o agarose

06

TTX

Aug 012 056-057 A/I

064-065 A/I Aug 013

058-059 ramp

066-067 ramp

Aug 014 060-061 A/I w/o CS

068-069 A/I w/o CS Aug 015

062-063 A/I w/o CS
ramp

070-071 ramp w/o CS

Sub files: Av 12-13, Av 14-15

June 18

ocyte 5 - 18.5 M2 electrodes broken at rings
pulled according to "cookbook" pg 50

Aug 2016

TTX

10618 @ 072-073 A/E

074-075 ring

Av018 - 076-077 A/E w/0 CS

078-079 ring w/0 CS

080-81 A/B - Av017

082-083 ring

084-085 A/B w/0 CS - Av019

086-087 ring w/0 CS

Sub files: Av16-17, Av18-19

June 24th, 2010

On Nav 31 - Vclamp recordings

oocyte 1 - looks like receptors were overexpressed
6000-10000 nA

000-001 A/I

002-003 ramp

004-005 A/I w/o LS

006-007 ramp w/o LS

oocyte 2 & 3 were dead !!

oocyte 4 - using ND60

		W/TTX
Aug 001	009-010 A/I	017-018 A/I - Aug 001
	011-012 ramp	019-020 ramp
Aug 002	013-014 A/I w/o LS	021-022 A/I w/o LS - Aug 003
	015-016 ramp w/o LS	023-024 ramp w/o LS

Sub files: ~~Aug 001~~, Av0-1, Av2-3

oocyte 5 - using ND48 < best clamp so far (-20 nA)
W/TTX

Aug 004	030-031 A/I	038-039 A/I - Aug 005
	032-033 ramp	040-041 ramp
Aug 005	034-035 A/I w/o LS	042-043 A/I w/o LS - Aug 007
	036-037 ramp w/o LS	044-045 ramp w/o LS

Sub files: Av4-5, Av6-7

oocyte 6 - using ND25 (very low resting potential)

046-047 A/I crapped out

048-049 ramp

050-051 A/I w/o LS

052-053 ramp w/o LS

June 24th - DmtnaV31

oocyte 7-in NO25

Av008

51-52 A/I

53-54 ramp

ADD-55-56 A/I w/10 CS

57-58 ramp w/10 CS

W/ITX

59-60 A/I - Av009

61-62 ramp

63-64 A/I w/20 CS - Av011

65-66 ramp w/10 CS

lamp
started
dying around
here.

Sub files: Av8-9, Av10-11

1062

1062

Aug000

Aug002-1

oocyte

oocyte

oocyte

Aug004

025

027

029

031-

Aug006

Sub

June 25th, DmNav32

oocyte 1 - didn't express, only showed Cl^- current.

oocyte 2 - huge current (~ 8000 nA), but good clamp (~ 20 nA)

10625

000-001 A/I
02-03 ramp
04-05 A/I w/o LS
06-07 ramp w/o LS

~~w/TTX~~
~~08-09 A/I~~
~~10-11 ramp~~
~~12-13 A/I w/o LS~~
~~14-15 ramp w/o LS~~

- rig moved & killed clamp during TTX injection.

oocyte 3 - ND96 w/ 60 mM NaCl

10625

Aug00 009-010 A/I
011-12 ramp
Aug00 13-14 A/I w/o LS
15-16 ramp w/o LS

~~w/TTX~~
~~17-18 A/I - Aug 001~~
~~19-20 ramp~~
~~21-22 A/I w/o LS - Aug 003~~
~~23-24 ramp w/o LS~~

Sub files: Av0-1, Av2-3

oocyte 4 - didn't express

oocyte 5, 6 - dead, no membrane potential

oocyte 7 - didn't express, recorded anyway, basically un.injected

Aug004

025-026 A/I
027-028 ramp
029-030 A/I w/o LS
031-032 ramp w/o LS

~~w/TTX~~ Ci think?!
033-034 A/I - Aug005 Maybe tiny
035-036 ramp Na^+ current
037-038 A/I w/o LS
039-040 ramp w/o LS Aug007

Aug006

Sub files: Av4-5, Av6-7

OmNav32

oocyte 8 - NO96, 96 mM NaCl

Aug 08	041-042	AIF	}	049-050	AIF - Aug 009
	43-44	ramp		051-052	ramp
Aug 10 -	45-46	AIF w/OLS	}	053-054	AIF w/OLS - Aug 011
	47-48	ramp w/OLS		055-056	ramp w/OLS

Sub files: Av8-7, Av10-11