**Semi-Final Totals – Before Data Analysis**

**CL8 – CeA Dyn Recording in DID with 20% EtOH, Water, or 0.5% Sucrose**

N = 26, 13/13 male/female; #1-6, 14-20 male, #7-13, 21-23 female

Cohort 1

N = 12, 6m, 6f #1-6 male, #7-13 female

Semi-final Cohort 1 N = 6, 3m 3f – 2 males dropped for bad placement (#3 & #4), one male died in surgeries (#2), two females had bad signal (#7 & #12) and one wrong virus (#13) which I called “surgical complications”;

Data Exclusion list: 3,4,13

Cohort 2

N= 14, 7m, 7f #14-20 male, #21-23 female

Semi-Final Cohort 2 N = 8, 5m 3f – 2 males (#16 & #19) and 4 females (#24-27) dropped for low signal

***Semi-Final Total N=14, 8m, 6f Male #’s: 1,5,6,14,15,17,18,20; Female #’s: 8,9,10,21,22,23***

***8 (2m, 6f) dropped for low signal***

***2 (1m, 1f) lost from surgical complications***

***2 (2m) dropped for bad placement***

**CL20 – CeA Dyn in Drinking Hedonics – quinine, sucrose + quinine, water deprivation, water, saccharin, citric acid, EtOH (not in order)**

N= 9, 4m, 5f ; #1-4 male; #5-9 female

– one dude’s (#1) head cap came off. I called it “surgical complications” for simplification.

***Semi-Final N=8, 3m, 5f Male #’s: 2,3,4; Female #’s: 5,6,7,8,9***

***1 (1m) lost from surgical complications***

**Summary of Semi-Final Totals From Both Studies:**

Total N=35, 17/18 male/female to begin with

Semi-Final N= 22, 11m, 11f

8 (2m, 6f) dropped for low signal

3 lost (2m, 1f) from surgical complications

2 (2m) dropped for bad placement

**Final Totals – After Data Quality Control**

**CL8 – CeA Dyn Recording in DID with 20% EtOH, Water, or 0.5% Sucrose**

***Total Sessions (each animal each recording = 1 session) – Overall Total = 122/160 Sessions; after bad placements 136 total***

**15/30 EtOH Sessions Cohort 1 (8f/7m), 28/30 EtOH Sessions Cohort 2 (10f/18m)= 43/60 Total EtOH**

Cohort 1: 4 dropped = no bouts; 9 dropped = bad placement; 2 dropped = technical issue/TrueBout

Cohort 2: 2 dropped = no bouts; 0 dropped = bad placement; 0 dropped = technical issue/outlier

Total: 6 dropped = no bouts, 9 dropped = bad placement; 3 dropped = tech issue/TrueBout |outlier; total = 21

**13/20 Water Sessions Cohort 1 (7f/6m), 18/20 Water Sessions Cohort 2 (7f/11m)= 31/40 Total Water**

Cohort 1: 1 dropped = no bouts; 6 dropped = bad placement;

Cohort 2: 1 dropped = no bouts; 1 dropped = technical issue/outlier|TrueBout

Total: 2 dropped = no bouts; 6 dropped = bad placement; 1 dropped = technical issue/outlier | TrueBout

**20/30 Sucrose Sessions Cohort 1 (10f/10m), 28/30 Sucrose Sessions Cohort 2 (10f/18m)= 48/60 Total Sucrose**

Cohort 1: 1 dropped = no bouts; 9 dropped = bad placement

Cohort 2: 1 dropped = no bouts; 1 dropped = tech issue/TrueBout

Total: 2 dropped = no bouts; 9 dropped = bad placement; 1 dropped = tech issue/TrueBout |outlier

***Total Verified Bouts – Overall Total = 2832/3188 (88.8%) –Table below is correct pre-analysis.***

Additional Bouts dropped during analysis: Two bouts had outlying Lick Frequencies or Bout Durations.

20220513CLA17B21, Subject 17, Session 15, Bout 4 (Lick Frequency outlier)

20220512CL8A1B20, Subject 18, Session 14, Bout 18 (Bout Duration outlier)

Then three sessions only had a single bout: 20201030CL8A6B, Subject 6; 20201113CL8A6B5, Subject 5; 20201120CL8A6B5water, Subject 6 – they were retained in final analysis.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Drinking Bout Validation Status** | **20% Ethanol** | | | **Water** | | | **0.5% Sucrose** | | | **Grand Total** |
| Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** |
| True | 357 (90.3%) | 327 (96.2%) | **684 (92.9%)** | 383 (86.1%) | 368 (91.0%) | **751 (89.1%)** | 623 (82.0%) | 774 (91.0%) | **1397 (86.7%)** | **2832 (88.8%)** |
| False | 32 | 7 | **39** | 62 | 29 | **91** | 137 | 77 | **214** | **344 (10.8%)** |
| Undetermined | 6 | 6 | **12** | 0 | 0 | **0** | 0 | 0 | **0** | **12 (0.38%)** |
| **Total** | 395 | 340 | **735** | 445 | 323 | **842** | 760 | 851 | **1611** | **3188 (100%)** |

|  |
| --- |
| **Subject**  **(Female ID / Male ID)** |
| **20% Ethanol** | | **Water** | | **0.5% Sucrose** | | **Grand Total** |
| Females | Males | Females | Males | Females | Males |
| 1 (8/1) | 107 | 38 | 47 | 19 | 79 | 37 |
| 2 (9/5) | 2 | 3 | 37 | 14 | 27 | 37 |
| 3 (10/6) | 17 | 12 | 53 | 25 | 86 | 79 |
| 4 (21/14) | 73 | 64 | 97 | 93 | 104 | 135 |
| 5 (22/15) | 85 | 36 | 68 | 37 | 163 | 195 |
| 6 (17) |  | 39 |  | 74 |  | 44 |
| 7 (23/18) | 73 | 78 | 81 | 51 | 163/4\* | 154 |
| 8 (NA/20) |  | 57 |  | 55 |  | 93 |
| **Total** | 357 | 327 | 383 | 368 | 622/23\* | 774 | **2832** |

\*One bout had only a before signal and not an after signal so effectively 163.

**CL20 – CeA Dyn in Drinking Hedonics**

Total Sessions (each animal each recording = 1 session) – **Overall Total = 92/108 Sessions (62 in “Most Solutions” Data – Dropped “Very High” and “High” QHCl, “Saccharin”, and “Citric Acid; 52 Sessions in “Half Solutions” FINAL Data – same as “Most Solutions” except also dropped EtOH)**

**28/36 Quinine Sessions (17/33 in Most Solutions)**

3 Quinine Very High – 3 female (Dropped in “Most Solutions”)

8 Quinine High – 2 male, 6 female (Dropped in “Most Solutions”)

17 Quinine Low – 7 male, 10 female

8 dropped = no bouts (either before or after TrueBout verification)

**10/10 Water Sessions**

**8**/**10 Water Dep Sessions**

2 dropped = technical issue (mild dep)

**10/10 Sucrose+QHCl High Sessions**

**7/10 Sucrose+QHCl Low Sessions**

2 dropped = no bouts (before TrueBout verification); 1 dropped = technical issue/outlier – both bouts too high

**10/10 Ethanol Sessions (dropped in “Half Solutions”)**

**10/10 Saccharin Sessions (dropped in “Most Solutions”)**

**9/12 Citric Acid Sessions (dropped in “Most Solutions”)**

1 dropped = no bouts due to technical issue; 2 dropped = tech issue/lost recordings

***Total Verified Bouts – Overall Total = 1243/1378 (90 %)***

| **Drinking Bout Validation Status** | **Quinine (30 mM - 250 µM)**  **“Very High”**  **Excluded From Totals** | | | **Quinine (125 µM)**  **“High”**  **Excluded From Totals** | | | **Quinine (90 µM)**  **“Low”** | | | **Water** | | | **Water + Deprivation** | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** |  |
| True | 48 (41.0%) | 0 (0%) | **48 (32.9%)** | 87 (68.5%) | 34 (72.3%) | **121 (69.5%)** | 179 (79.6%) | 131 (92.3%) | **310 (84.5%)** | 90 (84.9%) | 124 (91.9%) | **214 (88.8%)** | 212 (94.6%) | 133 (96.4%) | **345 (95.3%)** |  |
| False | 69 | 29 | **98** | 40 | 13 | **53** | 46 | 11 | **57** | 16 | 11 | **27** | 12 | 5 | **17** |  |
| **Total** | 117 | 29 | **146** | 127 | 47 | **174** | 225 | 142 | **367** | 106 | 135 | **241** | 224 | 138 | **362** |  |
| **Drinking Bout Validation Status** | **Sucrose + QHCl Low (90 µM)** | | | **Sucrose + QHCl High (125 µM)** | | | **EtOH (20%)**  **Excluded from Totals** | | | **Saccharin (0.0333%)**  **Excluded from Totals** | | | **Citric Acid (0.1 mM)**  **Excluded from Totals** | | |  |
| Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** | Females | Males | **Total** | **Grand Total** |
| True | 100 (91.7%) | 121 (95.3%) | **221 (93.6%)** | 75 (85.2%) | 78 (92.9%) | **153 (89.0%)** | 83 (91.2%) | 56 (90.3%) | **139 (90.8%)** | 300 (98.7%) | 234 (97.5%) | **534 (98.2%)** | 134 (91.8%) | 51 (82.3%) | **185 (88.9%)** | **1243 (90 %)** |
| False | 9 | 6 | **15** | 13 | 6 | **19** | 8 | 6 | **14** | 4 | 6 | **10** | 12 | 11 | **23** | **135** |
| **Total** | 109 | 127 | **236** | 88 | 84 | **172** | 91 | 62 | **153** | 304 | 240 | **544** | 146 | 62 | **208** | **1378** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject**  **(Female ID / Male ID)** | **Mouse/Sex Sampling** | | | | | | |
| **Quinine (125 µM)**  **Excluded from Totals** | | **Quinine (90 µM)** | | **Water** | | **Water + Dep** | | **Sucrose + QHCl low** | | **Sucrose + QHCl high** | | **EtOH** | | **Grand Total** |
| Females | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | Males | Females | Males |
| 1 (5/1) | 4 (3 + 1) | - | 12 | - | 8 (1 + 7) | - | 31 | - | 9 | - | 17 | - | 25 (19 + 6) | **-** |
| 2 (6/2) | 16 (1+15) | 30 (24.8%) | 29 (2 + 7 + 20) | 41 (1 + 40) | 18 | 42 | 29 | 47 | 26 (10 + 16) | 47 | 0 | 40 (21 + 19) | 11 | 31 |
| 3 (7/3) | 0 | 4 | 26 (3 + 23) | 16 (3 + 2 + 11) | 28 | 13 | 47 | 23 | 11 | 21 (8 + 13) | 19 | 0 | 19 | 11 |
| 4 (8/4) | 48 (39.7%) | 0 | 40 (32 + 8) | 74 (22 + 52) | 23 | 69 | 57 | 63 | 32 | 53 | 21 | 38 | 18 | 14 |
| 5 (9/-) | 19 | - | 72 (32 + 40) | - | 13 (2+11) | - | 48 | - | 22 | - | 18 | - | 10 (4 + 6) | - |
| **Total** | 87 | 34 | 179 | 131 | 90 | 124 | 212 | 133 | 100 | 121 | 75 | 78 | 83 | 56 | **1243** |