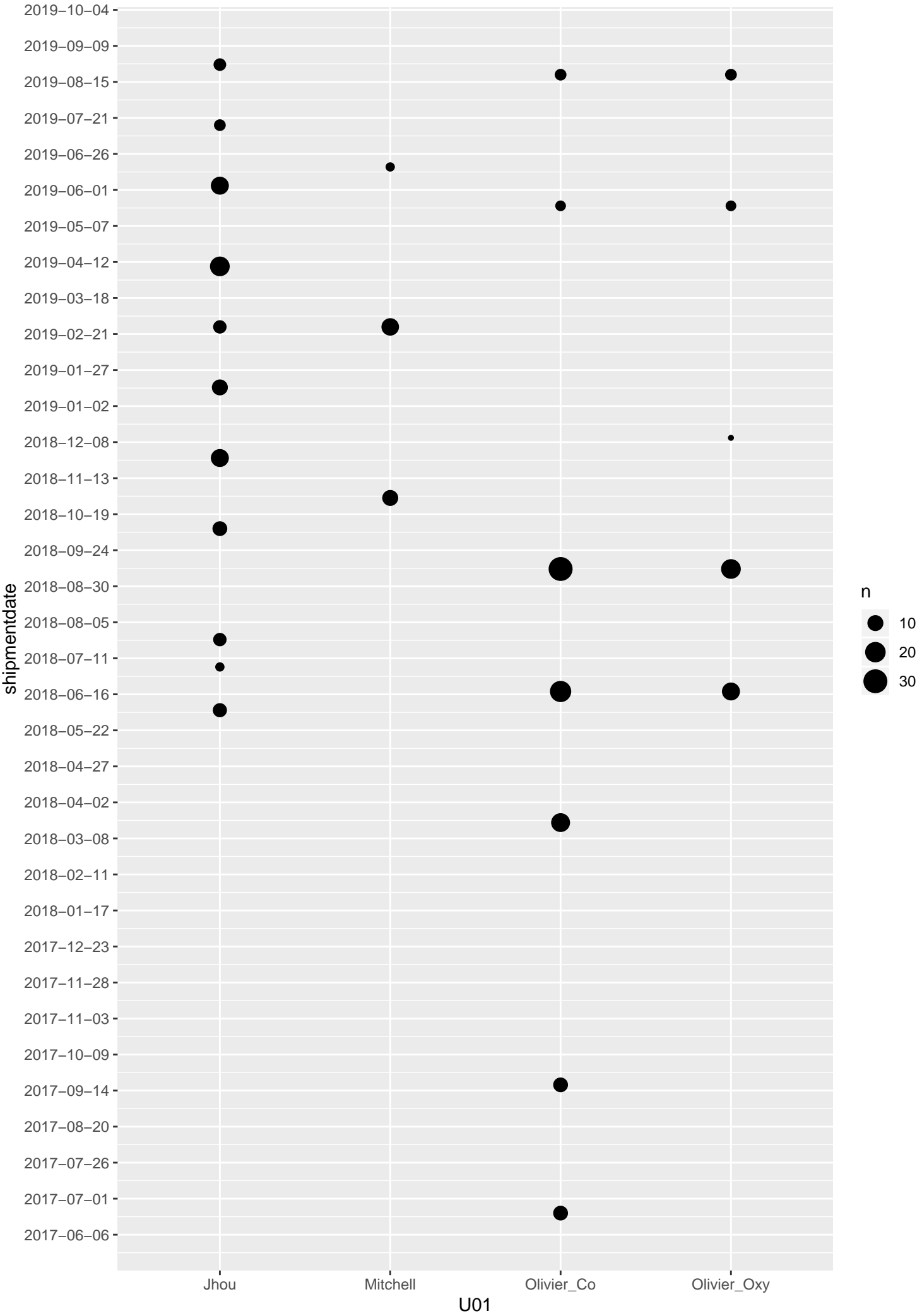


In WFU's rat shipments to U01 projects, we expect each cohort to represent different generations or a separate set of sire–dame pairs. Therefore, we would expect to find the number of rats from the same sire–dame pair in one cohort to be equal to the the number of rats from the same sire–dame pair in the overall U01. We have found that to not be the case for four of the U01's. The first figure and the second figure summarize the number of cases along with the timeline of shipments, while the last figure provides detailed information of each case.

Cases of sharing parents within cohorts

| U01 | n |
|-------------------|----------|
| Jhou | 48 |
| Mitchell | 14 |
| Olivier Cocaine | 36 |
| Olivier Oxycodone | 14 |

Shipment Dates Timeline by U01, from WFU shipments



| | U01 | sires | dames | cohort | siredamepair_in_cohort | siredamepair_in_u01 |
|----|------|---------|---------|--------|------------------------|---------------------|
| 1 | Jhou | 72409_2 | 72404_1 | 01 | 2 | 4 |
| 2 | Jhou | 72409_2 | 72404_1 | 03 | 2 | 4 |
| 3 | Jhou | 72411_2 | 72338_2 | 01 | 2 | 4 |
| 4 | Jhou | 72411_2 | 72338_2 | 03 | 2 | 4 |
| 5 | Jhou | 72454_2 | 72319_2 | 01 | 2 | 4 |
| 6 | Jhou | 72454_2 | 72319_2 | 03 | 2 | 4 |
| 7 | Jhou | 72623_1 | 72527_2 | 01 | 1 | 4 |
| 8 | Jhou | 72623_1 | 72527_2 | 04 | 3 | 4 |
| 9 | Jhou | 72689_1 | 72541_5 | 02 | 2 | 4 |
| 10 | Jhou | 72689_1 | 72541_5 | 04 | 2 | 4 |
| 11 | Jhou | 72772_3 | 73572_2 | 05 | 2 | 4 |
| 12 | Jhou | 72772_3 | 73572_2 | 06 | 2 | 4 |
| 13 | Jhou | 72773_3 | 72808_2 | 05 | 2 | 4 |
| 14 | Jhou | 72773_3 | 72808_2 | 06 | 2 | 4 |
| 15 | Jhou | 72782_3 | 72778_4 | 04 | 2 | 4 |
| 16 | Jhou | 72782_3 | 72778_4 | 05 | 2 | 4 |
| 17 | Jhou | 72808_1 | 72777_2 | 05 | 2 | 4 |
| 18 | Jhou | 72808_1 | 72777_2 | 06 | 2 | 4 |
| 19 | Jhou | 72935_1 | 72807_2 | 05 | 2 | 4 |
| 20 | Jhou | 72935_1 | 72807_2 | 07 | 2 | 4 |
| 21 | Jhou | 73151_1 | 73398_1 | 07 | 2 | 4 |
| 22 | Jhou | 73151_1 | 73398_1 | 08 | 2 | 4 |
| 23 | Jhou | 73154_1 | 73167_2 | 08 | 2 | 4 |
| 24 | Jhou | 73154_1 | 73167_2 | 09 | 2 | 4 |
| 25 | Jhou | 73155_1 | 73182_2 | 06 | 2 | 4 |
| 26 | Jhou | 73155_1 | 73182_2 | 08 | 2 | 4 |
| 27 | Jhou | 73156_1 | 73377_1 | 08 | 2 | 4 |
| 28 | Jhou | 73156_1 | 73377_1 | 09 | 2 | 4 |
| 29 | Jhou | 73170_1 | 73436_1 | 08 | 2 | 4 |
| 30 | Jhou | 73170_1 | 73436_1 | 09 | 2 | 4 |
| 31 | Jhou | 73189_1 | 73376_1 | 08 | 2 | 4 |
| 32 | Jhou | 73189_1 | 73376_1 | 09 | 2 | 4 |
| 33 | Jhou | 73205_1 | 73439_1 | 08 | 2 | 4 |
| 34 | Jhou | 73205_1 | 73439_1 | 09 | 2 | 4 |
| 35 | Jhou | 73337_2 | 73340_2 | 04 | 1 | 3 |
| 36 | Jhou | 73337_2 | 73340_2 | 07 | 2 | 3 |
| 37 | Jhou | 73354_2 | 73358_2 | 05 | 2 | 4 |
| 38 | Jhou | 73354_2 | 73358_2 | 06 | 2 | 4 |

| | | | | | | |
|----|------------|---------|---------|----|---|---|
| 39 | Jhou | 73358_1 | 73360_1 | 05 | 2 | 4 |
| 40 | Jhou | 73358_1 | 73360_1 | 08 | 2 | 4 |
| 41 | Jhou | 73400_2 | 73410_1 | 08 | 2 | 4 |
| 42 | Jhou | 73400_2 | 73410_1 | 09 | 2 | 4 |
| 43 | Jhou | 73728_1 | 73692_2 | 09 | 2 | 3 |
| 44 | Jhou | 73728_1 | 73692_2 | 11 | 1 | 3 |
| 45 | Jhou | 73737_1 | 73667_2 | 10 | 2 | 4 |
| 46 | Jhou | 73737_1 | 73667_2 | 11 | 2 | 4 |
| 47 | Jhou | 73768_1 | 73668_2 | 10 | 2 | 4 |
| 48 | Jhou | 73768_1 | 73668_2 | 11 | 2 | 4 |
| 49 | Mitchell | 72782_3 | 72778_4 | 01 | 2 | 4 |
| 50 | Mitchell | 72782_3 | 72778_4 | 02 | 2 | 4 |
| 51 | Mitchell | 72784_1 | 72802_2 | 01 | 2 | 4 |
| 52 | Mitchell | 72784_1 | 72802_2 | 02 | 2 | 4 |
| 53 | Mitchell | 72803_1 | 72936_2 | 01 | 1 | 2 |
| 54 | Mitchell | 72803_1 | 72936_2 | 02 | 1 | 2 |
| 55 | Mitchell | 72808_1 | 72777_2 | 01 | 3 | 5 |
| 56 | Mitchell | 72808_1 | 72777_2 | 02 | 2 | 5 |
| 57 | Mitchell | 73325_1 | 73327_1 | 01 | 2 | 4 |
| 58 | Mitchell | 73325_1 | 73327_1 | 02 | 2 | 4 |
| 59 | Mitchell | 73382_1 | 73198_2 | 02 | 2 | 3 |
| 60 | Mitchell | 73382_1 | 73198_2 | 03 | 1 | 3 |
| 61 | Mitchell | 73439_2 | 73227_1 | 02 | 2 | 3 |
| 62 | Mitchell | 73439_2 | 73227_1 | 03 | 1 | 3 |
| 63 | Olivier_Co | 71822_2 | 71804_3 | 01 | 2 | 4 |
| 64 | Olivier_Co | 71822_2 | 71804_3 | 02 | 2 | 4 |
| 65 | Olivier_Co | 71829_2 | 71806_5 | 01 | 2 | 3 |
| 66 | Olivier_Co | 71829_2 | 71806_5 | 02 | 1 | 3 |
| 67 | Olivier_Co | 71836_2 | 71799_3 | 01 | 2 | 4 |
| 68 | Olivier_Co | 71836_2 | 71799_3 | 02 | 2 | 4 |
| 69 | Olivier_Co | 71839_2 | 71829_3 | 01 | 2 | 5 |
| 70 | Olivier_Co | 71839_2 | 71829_3 | 02 | 3 | 5 |
| 71 | Olivier_Co | 72529_2 | 72601_4 | 05 | 1 | 7 |
| 72 | Olivier_Co | 72529_2 | 72601_4 | 06 | 6 | 7 |
| 73 | Olivier_Co | 72531_2 | 72624_2 | 04 | 2 | 4 |
| 74 | Olivier_Co | 72531_2 | 72624_2 | 05 | 2 | 4 |
| 75 | Olivier_Co | 72532_1 | 72534_6 | 05 | 2 | 3 |
| 76 | Olivier_Co | 72532_1 | 72534_6 | 06 | 1 | 3 |
| 77 | Olivier_Co | 72535_1 | 72632_2 | 04 | 2 | 4 |
| 78 | Olivier_Co | 72535_1 | 72632_2 | 05 | 2 | 4 |

| | | | | | | |
|-----|-------------|---------|---------|----|---|----|
| 79 | Olivier_Co | 72538_3 | 72621_2 | 04 | 2 | 5 |
| 80 | Olivier_Co | 72538_3 | 72621_2 | 06 | 3 | 5 |
| 81 | Olivier_Co | 72540_5 | 72530_2 | 04 | 2 | 4 |
| 82 | Olivier_Co | 72540_5 | 72530_2 | 06 | 2 | 4 |
| 83 | Olivier_Co | 72543_5 | 72531_1 | 04 | 2 | 6 |
| 84 | Olivier_Co | 72543_5 | 72531_1 | 06 | 4 | 6 |
| 85 | Olivier_Co | 72593_5 | 72529_1 | 04 | 2 | 4 |
| 86 | Olivier_Co | 72593_5 | 72529_1 | 05 | 2 | 4 |
| 87 | Olivier_Co | 72601_3 | 72533_6 | 04 | 2 | 4 |
| 88 | Olivier_Co | 72601_3 | 72533_6 | 06 | 2 | 4 |
| 89 | Olivier_Co | 72626_5 | 72660_2 | 04 | 2 | 6 |
| 90 | Olivier_Co | 72626_5 | 72660_2 | 06 | 4 | 6 |
| 91 | Olivier_Co | 72656_1 | 72625_2 | 05 | 6 | 10 |
| 92 | Olivier_Co | 72656_1 | 72625_2 | 06 | 4 | 10 |
| 93 | Olivier_Co | 72663_1 | 72526_2 | 05 | 7 | 11 |
| 94 | Olivier_Co | 72663_1 | 72526_2 | 06 | 4 | 11 |
| 95 | Olivier_Co | 73688_1 | 73674_2 | 08 | 2 | 4 |
| 96 | Olivier_Co | 73688_1 | 73674_2 | 09 | 2 | 4 |
| 97 | Olivier_Co | 73744_1 | 73731_2 | 08 | 1 | 3 |
| 98 | Olivier_Co | 73744_1 | 73731_2 | 09 | 2 | 3 |
| 99 | Olivier_Oxy | 72532_1 | 72534_6 | 01 | 7 | 15 |
| 100 | Olivier_Oxy | 72532_1 | 72534_6 | 02 | 8 | 15 |
| 101 | Olivier_Oxy | 72540_5 | 72530_2 | 01 | 2 | 7 |
| 102 | Olivier_Oxy | 72540_5 | 72530_2 | 02 | 5 | 7 |
| 103 | Olivier_Oxy | 72619_1 | 72593_6 | 01 | 3 | 5 |
| 104 | Olivier_Oxy | 72619_1 | 72593_6 | 02 | 2 | 5 |
| 105 | Olivier_Oxy | 72689_1 | 72541_5 | 01 | 2 | 3 |
| 106 | Olivier_Oxy | 72689_1 | 72541_5 | 02 | 1 | 3 |
| 107 | Olivier_Oxy | 72808_1 | 72777_2 | 02 | 2 | 3 |
| 108 | Olivier_Oxy | 72808_1 | 72777_2 | 03 | 1 | 3 |
| 109 | Olivier_Oxy | 73688_1 | 73674_2 | 04 | 2 | 4 |
| 110 | Olivier_Oxy | 73688_1 | 73674_2 | 05 | 2 | 4 |
| 111 | Olivier_Oxy | 73744_1 | 73731_2 | 04 | 1 | 3 |
| 112 | Olivier_Oxy | 73744_1 | 73731_2 | 05 | 2 | 3 |