**Legend**

Blue cell is the example reported in the figure; Results of statistical test: “p” is for paired t-test.

**Ca2+ imaging pharmacology**

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| ***Isr*** | ΔFchange (fraction) | ICa change (fraction) |
| 03062020a | 2812 2595 (0.9227) | 189 171 (0.9056) |
| 03062020c | 2232 1393 (0.6241) | 131 113 (0.8688) |
| 08062020a | 1682 1084 (0.6662) | 109 68 (0.6222) |
| 08062020c | 1712 1645 (0.9596) | 141 100 (0.7072) |
| 08062020d | 2275 1830 (0.8047) | 237 157 (0.6630) |
| 05062020b | 901 314 (0.3480) | 52 25 (0.4881) |
| 26052020b | 2040 1862 (0.9127) | 147 113 (0.7721) |
| mean±SD | 0.74±0.22 p=0.0071 | 0.72±0.15 p=0.0037 |

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| ***Aga*** | ΔFchange (fraction) | ICa change (fraction) |
| 23062020c | 1362 1320 (0.9694) | 108 78 (0.7239) |
| 09062020a | 1844 1737 (0.9423) | 118 109 (0.9238) |
| 22062020b | 805 739 (0.9181) | 66 69 (1.0483) |
| 24062020c | 369 311 (0.8433) | 29 22 (0.7640) |
| 09062020c | 148 132 (0.8932) | 135 100 (0.7407) |
| 06112020b | 2207 1907 (0.8638) | 158 119 (0.7561) |
| 19112020a | 876 658 (0.7512) | 47 43 (0.9101)) |
| 22062020d | 2173 1706 (0.7848) | 120 115 (0.9630) |
| mean±SD | 0.87±0.08 p=0.0244 | 0.85±0.12 p=0.0286 |

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| ***Cntx*** | ΔFchange (fraction) | ICa change (fraction) |
| 31082020b | 4517 6147 (1.3609) | 246 284 (1.1541) |
| 10092020b | 1663 3080 (1.7470) | 48 69 (1.455) |
| 03092020a | 4324 4675 (1.0813) | 162 179 (1.1043) |
| 03092020b | 5261 5172 (0.9830) | 227 218 (0.9627) |
| 03092020c | 6784 10124 (1.4923) | 387 582 (1.5049) |
| 26112020a | 2724 2232 (0.8196) | 115 84 (0.7354) |
| 26112020c | 3094 3614 (1.1681) | 125 144 (1.1509) |
| 26112020b | 1440 1882 (1.3069) | 70 89 (1.2768) |
| 10092020b | 1406 2260 (1.6080) | 51 60 (1.1866) |
| 04092020c | 5292 6623 (1.2514) | 292 369 (1.2654) |
| 08092020a | 1693 1920 (1.1344) | 73 68 (0.9404) |
| mean±SD | 1.27±0.27 p=0.0212 | 1.15±0.22 p=0.1128 |

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| ***Snx*** | ΔFchange (fraction) | ICa change (fraction) |
| 23072020d | 869 839 (0.9657) | 82 73 (0.8867) |
| 23072020b | 1546 1267 (0.8195) | 66 60 (0.9124) |
| 23072020c | 404 414 (1.0232) | 55 61 (1.1205) |
| 21072020b | 93 93 (1) | 58 55 (0.9603) |
| 21072020c | 2023 1884 (0.9314) | 98 95 (0.9704) |
| 16072020a | 1378 1273 (0.9241) | 91 67 (0.7391) |
| 16072020c | 1621 1152 (0.7108) | 115 86 (0.7461) |
| mean±SD | 0.91±0.11 p=0.0710 | 0.90±0.13 p=0.0842 |

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| ***ML+NNC*** | ΔFchange (fraction) | ΔFchange (fraction) |
| 12112020b | 1830 1584 (0.8656) | 88 72 (0.8238) |
| 12112020d | 1909 1002 (0.5251) | 87 40 (0.4603) |
| 13112020a | 1740 1217 (0.6995) | 88 84 (0.9506) |
| 16102020a | 1087 753 (0.6928) | 71 49 (0.6878) |
| 16112020b | 1650 1047 (0.6346) | 99 41 (0.4170) |
| 19102020b | 2270 1380 (0.6061) | 102 81 (0.7905) |
| 26102020b | 1243 758 (0.6096) | 43 27 (0.6227) |
| 28102020c | 1185 872 (0.7360) | 54 44 (0.8286) |
| 28102020d | 1116 424 (0.3797) | 51 19 (0.3725) |
| 13112020b | 1090 802 (0.7358) | 57 39 (0.6824) |
| mean±SD | 0.65±0.13 p=7.2157·10-5 | 0.66±0.19 p=0.0013 |

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| ***PD*** | ΔFchange (fraction) | ICa change (fraction) |
| 02102020a | 2617 3496 (1.3358) | 83 115 (1.3837) |
| 02102020b | 2323 2365 (1.0183) | 79 75 (0.9426) |
| 13092020a | 995 1124 (1.1297) | 64 64 (0.9916) |
| 13092020b | 415 727 (1.7528) | 30 48 (1.6089) |
| 16092020c | 2248 3054 (1.3582) | 55 66 (1.2120) |
| 27112020a | 2611 3591 (1.3752) | 84 105 (1.2581) |
| 27112020b | 2615 2874 (1.0989) | 122 121 (0.9913) |
| mean±SD | 1.29±0.25 p=0.0162 | 1.20±0.24 p=0.0731 |

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| ***Ibtx - Cntx*** | ΔFchange (fraction) | ICa change (fraction) |
| 27062022a | 639 767 734 (1.2011 0.9565) | 359 357 347 (0.9952 0.9714) |
| 27062022b | 1269 1767 1252 (1.3922 0.7087) | 856 878 527 (1.0253 0.6000) |
| 27062022c | 1987 2230 2099 (1.1227 0.9413) | 1021 1055 1050 (1.0333 0.9953) |
| 28062022a | 615 696 508 (1.1313 0.7294) | 315 397 280 (1.2591 0.7048) |
| 28062022b | 2005 2239 1720 (1.1164 0.7684) | 1069 1169 937 (1.0940 0.8012) |
| 28062022c | 1272 1856 1144 (1.4586 0.6166) | 700 829 532 (1.1847 0.6414) |
| 30062022a | 947 1322 1045 (1.3968 0.7903) | 709 774 613 (1.0913 0.7920) |
| 30062022b | 2017 2385 1865 (1.1824 0.7818) | 1507 1592 1113 (1.0565 0.6991) |
| 30062022c | 2028 2552 2195 (1.2582 0.8600) | 1312 1370 1072 (1.0439 0.7823) |
| mean±SD | 1.25±0.13, p=0.00046 - 0.79±0.11, p=0.0012 | 1.09±0.08, p=0.0016 - 0.78±0.14, p=0.0034 |