

# Figure supp5G-J

Figure supp5G (sEPSC Frequency)

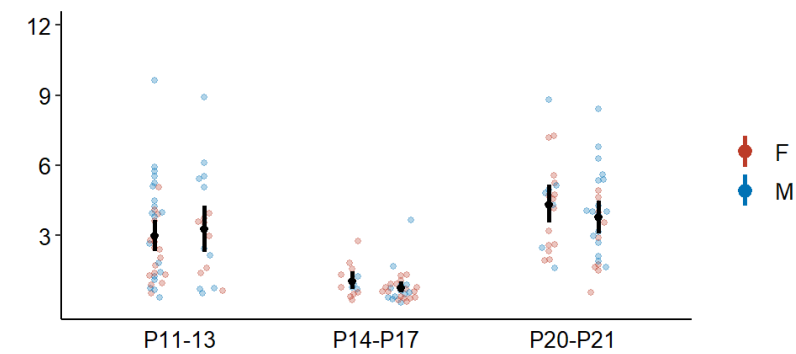


Table: ANOVA table before bootstrapping

|             | F      | Df | Df.res | Pr(>F) |
|-------------|--------|----|--------|--------|
| (Intercept) | 53.905 | 1  | 64.921 | 0.000  |
| f.age       | 22.466 | 2  | 71.787 | 0.000  |
| group       | 0.611  | 1  | 71.313 | 0.437  |
| sex         | 5.327  | 1  | 70.705 | 0.024  |

Table: Main effect after bootstrapping

| Parameter | Median | Mean  | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|-------|------|--------|---------|-------|-------|
| Ctr1 - KO | 0.289  | 0.285 | 0.95 | -0.348 | 0.903   | 0.818 | 0.364 |

| Parameter             | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|------|--------|---------|-------|-------|
| (P11-13) - (P14-P17)  | 2.014  | 2.004  | 0.95 | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21)  | -0.911 | -0.913 | 0.95 | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21) | -2.918 | -2.917 | 0.95 | -3.473 | -2.366  | 1.000 | 0.000 |

| Parameter | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|--------|------|--------|---------|-------|-------|
| F - M     | -0.839 | -0.839 | 0.95 | -1.382 | -0.297  | 0.999 | 0.002 |

Table: Post-hoc comparison with bootstrapping output

| Parameter             | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, F, P11-13  | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, M, P11-13  | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, F, P14-P17 | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, M, P14-P17 | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, F, P20-P21 | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, M, P20-P21 | -0.289 | -0.285 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |

| Parameter                      | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|--------------------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                         | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl, F  | 2.014  | 2.004  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, F  | -0.911 | -0.913 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), Ctrl, F | -2.918 | -2.917 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO, F    | 2.014  | 2.004  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, F    | -0.911 | -0.913 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), KO, F   | -2.918 | -2.917 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |
| (P11-13) - (P14-P17), Ctrl, M  | 2.014  | 2.004  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, M  | -0.911 | -0.913 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), Ctrl, M | -2.918 | -2.917 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO, M    | 2.014  | 2.004  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, M    | -0.911 | -0.913 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), KO, M   | -2.918 | -2.917 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |

| Parameter            | Median | Mean  | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|----------------------|--------|-------|--------|-------|--------|---------|-------|-------|
| :-----               | -----  | ----- | -----  | ----- | -----  | -----   | ----- | ----- |
| M - F, Ctrl, P11-13  | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |
| M - F, KO, P11-13    | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |
| M - F, Ctrl, P14-P17 | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |
| M - F, KO, P14-P17   | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |
| M - F, Ctrl, P20-P21 | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |
| M - F, KO, P20-P21   | 0.839  | 0.839 | 0.839  | 0.95  | 0.297  | 1.382   | 0.999 | 0.002 |

Table: Merge-sex-Post-hoc comparison with bootstrapping output

| Parameter          | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|--------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----             | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, P11-13  | -0.289 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, P14-P17 | -0.289 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |
| KO - Ctrl, P20-P21 | -0.289 | -0.285 | 0.95  | -0.903 | 0.348   | 0.818 | 0.364 |

| Parameter                   | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----                      | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl  | 2.014  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl  | -0.911 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), Ctrl | -2.918 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO    | 2.014  | 2.004  | 0.95  | 1.300  | 2.699   | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO    | -0.911 | -0.913 | 0.95  | -1.679 | -0.147  | 0.989 | 0.021 |
| (P14-P17) - (P20-P21), KO   | -2.918 | -2.917 | 0.95  | -3.473 | -2.366  | 1.000 | 0.000 |

Figure supp5H (sEPSC amplitude)

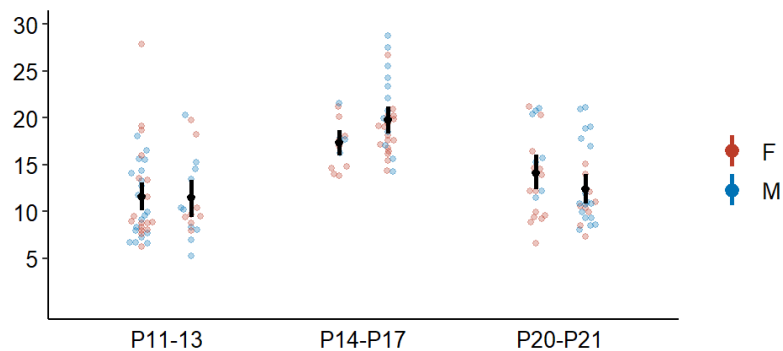


Table: ANOVA table before bootstrapping

|             | F       | Df | Df.res | Pr(>F) |
|-------------|---------|----|--------|--------|
| (Intercept) | 152.974 | 1  | 62.041 | 0.000  |
| f.age       | 29.614  | 2  | 70.803 | 0.000  |
| group       | 0.027   | 1  | 70.347 | 0.870  |
| sex         | 2.547   | 1  | 69.717 | 0.115  |

Table: Main effect after bootstrapping

| Parameter | Median | Mean  | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|-------|------|--------|---------|-------|-------|
| Ctrl - KO | 0.112  | 0.107 | 0.95 | -1.286 | 1.515   | 0.564 | 0.873 |

| Parameter             | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|------|--------|---------|-------|-------|
| (P11-13) - (P14-P17)  | -7.843 | -7.871 | 0.95 | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21)  | -1.223 | -1.217 | 0.95 | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21) | 6.653  | 6.654  | 0.95 | 5.148  | 8.148   | 1.000 | 0.000 |

| Parameter | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|--------|------|--------|---------|-------|-------|
| F - M     | -1.394 | -1.389 | 0.95 | -2.749 | -0.045  | 0.979 | 0.043 |

Table: Post-hoc comparison with bootstrapping output

| Parameter             | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, F, P11-13  | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, M, P11-13  | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, F, P14-P17 | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, M, P14-P17 | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, F, P20-P21 | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, M, P20-P21 | -0.112 | -0.107 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |

| Parameter                      | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|--------------------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                         | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl, F  | -7.843 | -7.871 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, F  | -1.223 | -1.217 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), Ctrl, F | 6.653  | 6.654  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO, F    | -7.843 | -7.871 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, F    | -1.223 | -1.217 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), KO, F   | 6.653  | 6.654  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |
| (P11-13) - (P14-P17), Ctrl, M  | -7.843 | -7.871 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, M  | -1.223 | -1.217 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), Ctrl, M | 6.653  | 6.654  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO, M    | -7.843 | -7.871 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, M    | -1.223 | -1.217 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), KO, M   | 6.653  | 6.654  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |

| Parameter            | Median | Mean  | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|----------------------|--------|-------|--------|-------|--------|---------|-------|-------|
| :-----               | -----  | ----- | -----  | ----- | -----  | -----   | ----- | ----- |
| M - F, Ctrl, P11-13  | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |
| M - F, KO, P11-13    | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |
| M - F, Ctrl, P14-P17 | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |
| M - F, KO, P14-P17   | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |
| M - F, Ctrl, P20-P21 | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |
| M - F, KO, P20-P21   | 1.394  | 1.389 | 1.389  | 0.95  | 0.045  | 2.749   | 0.979 | 0.043 |

Table: Merge-sex-Post-hoc comparison with bootstrapping output

| Parameter          | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|--------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----             | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, P11-13  | -0.112 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, P14-P17 | -0.112 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |
| KO - Ctrl, P20-P21 | -0.112 | -0.107 | 0.95  | -1.515 | 1.286   | 0.564 | 0.873 |

| Parameter                   | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----                      | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl  | -7.843 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl  | -1.223 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), Ctrl | 6.653  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |
| (P11-13) - (P14-P17), KO    | -7.843 | -7.871 | 0.95  | -9.629 | -6.174  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO    | -1.223 | -1.217 | 0.95  | -2.981 | 0.523   | 0.915 | 0.169 |
| (P14-P17) - (P20-P21), KO   | 6.653  | 6.654  | 0.95  | 5.148  | 8.148   | 1.000 | 0.000 |

Figure supp5I (sIPSC frequency)

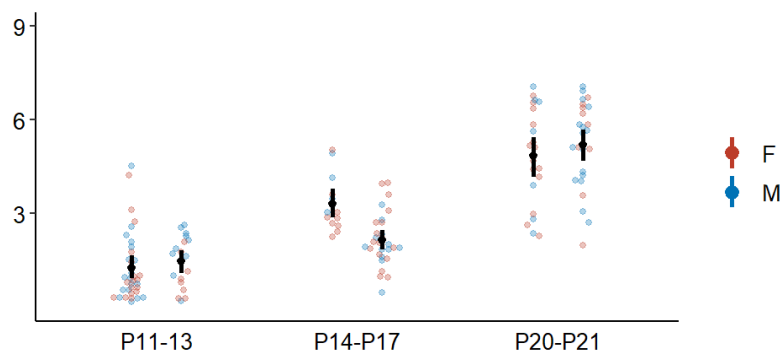


Table: ANOVA table before bootstrapping

|             | F      | Df | Df.res | Pr(>F) |
|-------------|--------|----|--------|--------|
| (Intercept) | 14.274 | 1  | 62.557 | 0.000  |
| f.age       | 44.091 | 2  | 64.652 | 0.000  |
| group       | 0.476  | 1  | 72.096 | 0.493  |
| sex         | 0.874  | 1  | 69.650 | 0.353  |
| f.age:group | 4.245  | 2  | 69.623 | 0.018  |

Table: Main effect after bootstrapping

| Parameter | Median | Mean  | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|-------|------|--------|---------|-------|-------|
| Ctrl - KO | 0.245  | 0.243 | 0.95 | -0.198 | 0.679   | 0.865 | 0.269 |

| Parameter             | Median | Mean   | CI   | CI_low | CI_high | pd | pval |
|-----------------------|--------|--------|------|--------|---------|----|------|
| (P11-13) - (P14-P17)  | -1.573 | -1.573 | 0.95 | -2.011 | -1.149  | 1  | 0    |
| (P11-13) - (P20-P21)  | -3.791 | -3.792 | 0.95 | -4.323 | -3.269  | 1  | 0    |
| (P14-P17) - (P20-P21) | -2.221 | -2.219 | 0.95 | -2.822 | -1.612  | 1  | 0    |

| Parameter | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|--------|------|--------|---------|-------|-------|
| F - M     | -0.234 | -0.233 | 0.95 | -0.625 | 0.162   | 0.875 | 0.251 |

Table: Post-hoc comparison with bootstrapping output

| Parameter             | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, F, P11-13  | 0.287  | 0.290  | 0.290  | 0.95  | -0.156 | 0.756   | 0.897 | 0.205 |
| KO - Ctrl, M, P11-13  | 0.287  | 0.290  | 0.290  | 0.95  | -0.156 | 0.756   | 0.897 | 0.205 |
| KO - Ctrl, F, P14-P17 | -1.346 | -1.348 | -1.348 | 0.95  | -2.103 | -0.611  | 1.000 | 0.000 |
| KO - Ctrl, M, P14-P17 | -1.346 | -1.348 | -1.348 | 0.95  | -2.103 | -0.611  | 1.000 | 0.000 |
| KO - Ctrl, F, P20-P21 | 0.324  | 0.328  | 0.328  | 0.95  | -0.651 | 1.281   | 0.755 | 0.491 |
| KO - Ctrl, M, P20-P21 | 0.324  | 0.328  | 0.328  | 0.95  | -0.651 | 1.281   | 0.755 | 0.491 |

| Parameter                      | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|--------------------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                         | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl, F  | -2.391 | -2.392 | -2.392 | 0.95  | -3.150 | -1.662  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, F  | -3.765 | -3.773 | -3.773 | 0.95  | -4.631 | -2.918  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), Ctrl, F | -1.378 | -1.381 | -1.381 | 0.95  | -2.412 | -0.345  | 0.992 | 0.017 |
| (P11-13) - (P14-P17), KO, F    | -0.755 | -0.755 | -0.755 | 0.95  | -1.229 | -0.276  | 0.999 | 0.002 |
| (P11-13) - (P20-P21), KO, F    | -3.807 | -3.812 | -3.812 | 0.95  | -4.457 | -3.174  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), KO, F   | -3.055 | -3.057 | -3.057 | 0.95  | -3.684 | -2.417  | 1.000 | 0.000 |
| (P11-13) - (P14-P17), Ctrl, M  | -2.391 | -2.392 | -2.392 | 0.95  | -3.150 | -1.662  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, M  | -3.765 | -3.773 | -3.773 | 0.95  | -4.631 | -2.918  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), Ctrl, M | -1.378 | -1.381 | -1.381 | 0.95  | -2.412 | -0.345  | 0.992 | 0.017 |
| (P11-13) - (P14-P17), KO, M    | -0.755 | -0.755 | -0.755 | 0.95  | -1.229 | -0.276  | 0.999 | 0.002 |
| (P11-13) - (P20-P21), KO, M    | -3.807 | -3.812 | -3.812 | 0.95  | -4.457 | -3.174  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), KO, M   | -3.055 | -3.057 | -3.057 | 0.95  | -3.684 | -2.417  | 1.000 | 0.000 |

| Parameter            | Median | Mean  | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|----------------------|--------|-------|--------|-------|--------|---------|-------|-------|
| :-----               | -----  | ----- | -----  | ----- | -----  | -----   | ----- | ----- |
| M - F, Ctrl, P11-13  | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |
| M - F, KO, P11-13    | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |
| M - F, Ctrl, P14-P17 | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |
| M - F, KO, P14-P17   | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |
| M - F, Ctrl, P20-P21 | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |
| M - F, KO, P20-P21   | 0.234  | 0.233 | 0.233  | 0.95  | -0.162 | 0.625   | 0.875 | 0.251 |

Table: Merge-sex-Post-hoc comparison with bootstrapping output

| Parameter          | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|--------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----             | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, P11-13  | 0.287  | 0.290  | 0.95  | -0.156 | 0.756   | 0.897 | 0.205 |
| KO - Ctrl, P14-P17 | -1.346 | -1.348 | 0.95  | -2.103 | -0.611  | 1.000 | 0.000 |
| KO - Ctrl, P20-P21 | 0.324  | 0.328  | 0.95  | -0.651 | 1.281   | 0.755 | 0.491 |

| Parameter                   | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----                      | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl  | -2.391 | -2.392 | 0.95  | -3.150 | -1.662  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl  | -3.765 | -3.773 | 0.95  | -4.631 | -2.918  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), Ctrl | -1.378 | -1.381 | 0.95  | -2.412 | -0.345  | 0.992 | 0.017 |
| (P11-13) - (P14-P17), KO    | -0.755 | -0.755 | 0.95  | -1.229 | -0.276  | 0.999 | 0.002 |
| (P11-13) - (P20-P21), KO    | -3.807 | -3.812 | 0.95  | -4.457 | -3.174  | 1.000 | 0.000 |
| (P14-P17) - (P20-P21), KO   | -3.055 | -3.057 | 0.95  | -3.684 | -2.417  | 1.000 | 0.000 |

Figure supp5J (sIPSC amplitude)

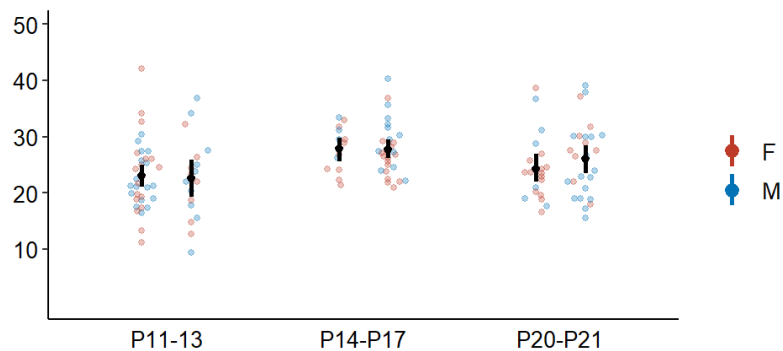


Table: ANOVA table before bootstrapping

|             | F       | Df | Df.res | Pr(>F) |
|-------------|---------|----|--------|--------|
| (Intercept) | 286.991 | 1  | 55.980 | 0.000  |
| f.age       | 6.511   | 2  | 68.251 | 0.003  |
| group       | 0.025   | 1  | 67.946 | 0.874  |
| sex         | 1.892   | 1  | 67.539 | 0.173  |

Table: Main effect after bootstrapping

| Parameter | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|--------|------|--------|---------|-------|-------|
| Ctrl - KO | -0.043 | -0.067 | 0.95 | -2.327 | 2.2     | 0.514 | 0.971 |

| Parameter             | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|--------|------|--------|---------|-------|-------|
| (P11-13) - (P14-P17)  | -5.807 | -5.821 | 0.95 | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21)  | -3.888 | -3.879 | 0.95 | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21) | 1.940  | 1.942  | 0.95 | -0.519 | 4.416   | 0.943 | 0.114 |

| Parameter | Median | Mean   | CI   | CI_low | CI_high | pd    | pval  |
|-----------|--------|--------|------|--------|---------|-------|-------|
| F - M     | -1.958 | -1.935 | 0.95 | -4.026 | 0.23    | 0.958 | 0.083 |

Table: Post-hoc comparison with bootstrapping output

| Parameter             | Median | Mean  | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------|--------|-------|--------|-------|--------|---------|-------|-------|
| :-----                | -----  | ----- | -----  | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, F, P11-13  | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, M, P11-13  | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, F, P14-P17 | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, M, P14-P17 | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, F, P20-P21 | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, M, P20-P21 | 0.043  | 0.067 | 0.067  | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |

| Parameter                      | Median | Mean   | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|--------------------------------|--------|--------|--------|-------|--------|---------|-------|-------|
| :-----                         | -----  | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl, F  | -5.807 | -5.821 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, F  | -3.888 | -3.879 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), Ctrl, F | 1.940  | 1.942  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |
| (P11-13) - (P14-P17), KO, F    | -5.807 | -5.821 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, F    | -3.888 | -3.879 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), KO, F   | 1.940  | 1.942  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |
| (P11-13) - (P14-P17), Ctrl, M  | -5.807 | -5.821 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl, M  | -3.888 | -3.879 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), Ctrl, M | 1.940  | 1.942  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |
| (P11-13) - (P14-P17), KO, M    | -5.807 | -5.821 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO, M    | -3.888 | -3.879 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), KO, M   | 1.940  | 1.942  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |

| Parameter            | Median | Mean  | Mean.1 | CI    | CI_low | CI_high | pd    | pval  |
|----------------------|--------|-------|--------|-------|--------|---------|-------|-------|
| :-----               | -----  | ----- | -----  | ----- | -----  | -----   | ----- | ----- |
| M - F, Ctrl, P11-13  | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |
| M - F, KO, P11-13    | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |
| M - F, Ctrl, P14-P17 | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |
| M - F, KO, P14-P17   | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |
| M - F, Ctrl, P20-P21 | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |
| M - F, KO, P20-P21   | 1.958  | 1.935 | 1.935  | 0.95  | -0.23  | 4.026   | 0.958 | 0.083 |

Table: Merge-sex-Post-hoc comparison with bootstrapping output

| Parameter          | Median | Mean  | CI    | CI_low | CI_high | pd    | pval  |
|--------------------|--------|-------|-------|--------|---------|-------|-------|
| :-----             | -----  | ----- | ----- | -----  | -----   | ----- | ----- |
| KO - Ctrl, P11-13  | 0.043  | 0.067 | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, P14-P17 | 0.043  | 0.067 | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |
| KO - Ctrl, P20-P21 | 0.043  | 0.067 | 0.95  | -2.2   | 2.327   | 0.514 | 0.971 |

| Parameter                   | Median | Mean   | CI    | CI_low | CI_high | pd    | pval  |
|-----------------------------|--------|--------|-------|--------|---------|-------|-------|
| :-----                      | -----  | -----  | ----- | -----  | -----   | ----- | ----- |
| (P11-13) - (P14-P17), Ctrl  | -5.807 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), Ctrl  | -3.888 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), Ctrl | 1.940  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |
| (P11-13) - (P14-P17), KO    | -5.807 | -5.821 | 0.95  | -8.062 | -3.532  | 1.000 | 0.000 |
| (P11-13) - (P20-P21), KO    | -3.888 | -3.879 | 0.95  | -6.903 | -0.906  | 0.996 | 0.008 |
| (P14-P17) - (P20-P21), KO   | 1.940  | 1.942  | 0.95  | -0.519 | 4.416   | 0.943 | 0.114 |