**Supplementary Table S1. Summary of statistical analyses.**

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| **Parameter** | **Type of test** | **Description of analysis** | **Test value** | **p-value** |
| *SPSS Statistics 25 - Treatment: 3 factors (CTL, GBS Ia, GBS III), One value per litter* |
| Mean weight of dams (G19) | 1-way ANOVA | Main effect: Treatment | F (2, 31) = .230 |  .796 |
| Mean weight of dams (G20 to G22) | 2-way ANCOVA  | Interaction: Treatment x Gestational day | F (2, 28) = .454 |  .639 |
|  |  (covariate: weight at G19) | Main effect: Gestational day | F (1, 28) = 1,774 |  .194 |
|  |  | Main effect: Treatment | F (2, 28) = 18.836 |  **< .0001** |
|  |  |  Sidak post hoc: CTL vs. GBS Ia |  |  .**003** |
|  |  |  Sidak post hoc: CTL vs. GBS III |  |  **< .0001** |
|  |  |  Sidak post hoc: GBS Ia vs. GBS III |  |  .211 |
| Mean number of pups per litter | 1-way ANOVA  | Main effect: Treatment | F (2, 25) = 2.177 |  .136 |
| *Sex ratio* | 1-way ANOVA | Main effect: Treatment | F (2, 25) = .315 |  .733 |
| Mean weight of male pups at P1 | 1-way ANOVA | Main effect: Treatment | F (2,21) = 4.942 |  **.017** |
|  |  |  Sidak post hoc: CTL vs. GBS Ia |  |  .832 |
|  |  |  Sidak post hoc: CTL vs. GBS III |  |  **.022** |
|  |  |  Sidak post hoc: GBS Ia vs. GBS III |  |  .203 |
| Mean weight of female pups at P1 | 1-way ANOVA | Main effect: Treatment | F (2, 21) = 3.089 |  .067 |
|  |  |  Sidak post hoc: CTL vs. GBS Ia |  |  .909 |
|  |  |  Sidak post hoc: CTL vs. GBS III |  |  .089 |
|  |  |  Sidak post hoc: GBS Ia vs. GBS III |  |  .320 |
| *SPSS Statistics 25 - Treatment: 2 factors (CTL, GBS III), One value per litter* |
| Mean weight of male rats at P40 | 1-way ANOVA | Main effect: Treatment | F (2,15) = 3.693 |  **.049** |
| Mean weight of female rats at P40 | 1-way ANOVA | Main effect: Treatment | F (2,16) = 3.412 |  .058 |
| Mean weight of forebrains at P40 | 2-way ANOVA | Interaction: Treatment x Sex | F (1, 26) = .507 |  .483 |
|  |  | Main effect: Treatment | F (1, 26) = 3.697 |  .066 |
|  |  | Main effect: Sex | F (1, 26) = 4.567 |  **.042** |
| *SPSS Statistics 25 - Treatment: 2 factors (CTL, GBS III), Random effect: litterID* |
| Open Field - Total distance - P15 | Linear mixed model | Random effect: LitterID |  | .207 |
|  |  | Interaction: Treatment x Sex | F (1, 40) = .691 | .411 |
|  |  | Main effect: Treatment | F (1, 11) = .591 | .459 |
|  |  | Main effect: Sex | F (1, 40) = 1.076 | .306 |
| Open Field - Total distance - P20 | Linear mixed model | Random effect: LitterID |  | .214 |
|  |  | Interaction: Treatment x Sex | F (1, 40) = .581 | .450 |
|  |  | Main effect: Treatment | F (1, 11) = .225 | .645 |
|  |  | Main effect: Sex | F (1, 40) = .002 | .961 |
| Open Field - Total distance - P25 | Linear mixed model | Random effect: LitterID |  | .121 |
|  |  | Interaction: Treatment x Sex | F (1, 39) = 8.497 | **.006** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | **.038** |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .598 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | **.042** |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | **.048** |
| Open Field - Mobility - P15 | Linear mixed model | Random effect: LitterID |  | .277 |
|  |  | Interaction: Treatment x Sex | F (1, 38) = .055 | .815 |
|  |  | Main effect: Treatment | F (1, 9) = .008 | .932 |
|  |  | Main effect: Sex | F (1, 38) = 2.418 | .128 |
| Open Field - Mobility - P20 | Linear mixed model | Random effect: LitterID |  | .308 |
|  |  | Interaction: Treatment x Sex | F (1, 41) = .686 | .412 |
|  |  | Main effect: Treatment | F (1, 10) = .279 | .608 |
|  |  | Main effect: Sex | F (1, 41) = .077 | .783 |
| Open Field - Mobility - P25 | Linear mixed model | Random effect: LitterID |  | .220 |
|  |  | Interaction: Treatment x Sex | F (1, 41) = 5.188 | **.028** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | **.008** |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .577 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | .115 |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | .109 |
| Open Field - Visited squares - P15 | Linear mixed model | Random effect: LitterID |  | .471 |
|  |  | Interaction: Treatment x Sex | F (1, 39) = .055 | .440 |
|  |  | Main effect: Treatment | F (1, 8) = .008 | .845 |
|  |  | Main effect: Sex | F (1, 39) = 2.418 | .599 |
| Open Field - Visited squares - P20 | Linear mixed model | Random effect: LitterID |  | .196 |
|  |  | Interaction: Treatment x Sex | F (1, 40) = .046 | .831 |
|  |  | Main effect: Treatment | F (1, 10) = .005 | .947 |
|  |  | Main effect: Sex | F (1, 40) = .109 | .743 |
| Open Field - Visited squares - P25 | Linear mixed model | Random effect: LitterID |  | .127 |
|  |  | Interaction: Treatment x Sex | F (1, 40) = 5.386 | **.026** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | .219 |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .304 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | **.018** |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | .539 |
| Open Field - Number of lines - P15 | Linear mixed model | Random effect: LitterID |  |  |
|  |  | Interaction: Treatment x Sex | F (1, 39) = .584 | .448 |
|  |  | Main effect: Treatment | F (1, 8) = .898 | .348 |
|  |  | Main effect: Sex | F (1, 39) = .126 | .724 |
| Open Field - Number of lines - P20 | Linear mixed model | Random effect: LitterID |  | .174 |
|  |  | Interaction: Treatment x Sex | F (1, 40) = .633 | .431 |
|  |  | Main effect: Treatment | F (1, 11) = .456 | .514 |
|  |  | Main effect: Sex | F (1, 40) = .931 | .931 |
| Open Field - Number of lines - P25 | Linear mixed model | Random effect: LitterID |  | .123 |
|  |  | Interaction: Treatment x Sex | F (1, 39) = 8.743 | **.005** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | **.028** |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .654 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | **.022** |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | **.087** |
| Open Field - Time centre - P15 | Linear mixed model | Random effect: LitterID |  | .428 |
|  |  | Interaction: Treatment x Sex | F (1, 39) = .557 | .460 |
|  |  | Main effect: Treatment | F (1, 8) = .162 | .698 |
|  |  | Main effect: Sex | F (1, 39) = .370 | .547 |
| Open Field - Time centre - P20 | Linear mixed model | Random effect: LitterID |  | .953 |
|  |  | Interaction: Treatment x Sex | F (1, 44) = .341 | .562 |
|  |  | Main effect: Treatment | F (1, 12) = 1.585 | .231 |
|  |  | Main effect: Sex | F (1, 44) = 1.102 | .300 |
| Open Field - Time centre - P25 | Linear mixed model | Random effect: LitterID |  | .134 |
|  |  | Interaction: Treatment x Sex | F (1, 41) = .561 | .458 |
|  |  | Main effect: Treatment | F (1, 12) = .321 | .581 |
|  |  | Main effect: Sex | F (1, 41) = .497 | .482 |
| *Treatment: 2 factors (CTL, GBS III), Repeated measures: Postnatal day (P) 35 and P65, One subject per litter* |
| Startle Magnitude - Habituation - P35, P65 | Repeated measures 2-way ANOVA | Within-subject: Interaction: P x Treatment x Sex | F (1, 6) = .346 | .578 |
|  |  | Within-subject: Interaction: P x Treatment | F (1, 6) = .009 | .926 |
|  |  | Within-subject: Interaction: P x Sex | F (1, 6) = .649 | .451 |
|  |  | Between-subject: Interaction: Treatment x Sex | F (1, 6) = 1.592 | .254 |
|  |  | Between-subject: Main effect: Treatment | F (1, 6) = .180 | .686 |
|  |  | Between-subject: Main effect: Sex | F (1, 6) = .263 | .626 |
| Startle Magnitude - Startle response - P35, P65 | Repeated measures 2-way ANOVA | Within-subject: Interaction: P x Treatment x Sex | F (1, 9) = .005 | .948 |
|  |  | Within-subject: Interaction: P x Treatment | F (1, 9) = 1.972 | .194 |
|  |  | Within-subject: Interaction: P x Sex | F (1, 9) = 5.317 | **.047** |
|  |  |  Sidak post hoc: P35 M vs. P65 M  |  | **.019** |
|  |  |  Sidak post hoc: P35 F vs. P65 F |  | .741 |
|  |  |  Sidak post hoc: P35 M vs. P35 F |  | **.041** |
|  |  |  Sidak post hoc: P65 M vs. P65 F |  | .132 |
|  |  | Between-subject: Interaction: Treatment x Sex | F (1, 9) = 1.045 | .333 |
|  |  | Between-subject: Main effect: Treatment | F (1, 9) = 15.775 | **.003** |
|  |  | Between-subject: Main effect: Sex | F (1, 9) = .229 | .644 |
| *Treatment: 2 factors (CTL, GBS III), One subject per litter* |
| Corpus callosum (CC) - thickness | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = 1.556 |  .233 |
|  |  | Main effect: Treatment | F (1, 14) = .115 |  .740 |
|  |  | Main effect: Sex | F (1, 14) = 3.399 |  .087 |
| Lateral ventricles - area | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 12) = .046 | .834 |
|  |  | Main effect: Treatment | F (1, 12) = 2.762 | .122 |
|  |  | Main effect: Sex | F (1, 12) = .066 | .801 |
| Frontal M1 - thickness | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = 5.455 | **.035** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | **.009** |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .907 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | .067 |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | .218 |
| Frontal M1 - GFAP density | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = .093 | .193 |
|  |  | Main effect: Treatment | F (1, 14) = 1.873 | .365 |
|  |  | Main effect: Sex | F (1, 14) = 5.368 | **.036** |
| Frontal M1 - Iba-1 density | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = .504 | .489 |
|  |  | Main effect: Treatment | F (1, 14) = .254 | .622 |
|  |  | Main effect: Sex | F (1, 14) = 1.124 | .307 |
| CC - MBP staining | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 13) = .560 | .468 |
|  |  | Main effect: Treatment | F (1, 13) = 8.573 | **.012** |
|  |  | Main effect: Sex | F (1, 13) = .020 | .889 |
| CC - GFAP density | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = 1.874 | .193 |
|  |  | Main effect: Treatment | F (1, 14) = .876 | .365 |
|  |  | Main effect: Sex | F (1, 14) = .349 | .564 |
| CC - Iba-1 density | 2-way ANOVA  | Interaction: Treatment x Sex | F (1, 14) = 4.394 | **.055** |
|  |  |  Sidak post hoc: M CTL vs. M GBS III  |  | **.024** |
|  |  |  Sidak post hoc: F CTL vs. F GBS III |  | .744 |
|  |  |  Sidak post hoc: M CTL vs. F CTL |  | **.023** |
|  |  |  Sidak post hoc: M GBS III vs. F GBS III |  | .757 |
| *GraphPad Prism 7.04 - Linear regression* |
| Weight P25, Distance OF – CTL M | Linear regression | Goodness of Fit |  R square = .031 |  |
|  |  | Slope significantly non-zero? | F (1, 5) = .159 | .707 |
| Weight P25, Distance OF – GBSIII M | Linear regression | Goodness of Fit |  R square = .290 |  |
|  |  | Slope significantly non-zero? | F (1, 12) = 4.909 | .**047** |
| Weight P25, Distance OF – CTL F | Linear regression | Goodness of Fit |  R square = .000 |  |
|  |  | Slope significantly non-zero? | F (1, 11) = .008 | .930 |
| Weight P25, Distance OF – GBSIII F | Linear regression | Goodness of Fit |  R square = .115 |  |
|  |  | Slope significantly non-zero? | F (1, 16) = 2.088 | .115 |
| CC Iba-1 density, M1 thickness - CTL |  Linear regression |  Goodness of Fit |  R square = .169 |  |
|  |  |  Slope significantly non-zero? | F (1, 6) = 1.223 | .311 |
| CC Iba-1 density, M1 thickness - GBSIII |  Linear regression |  Goodness of Fit |  R square = .693 |  |
|  |  |  Slope significantly non-zero? | F (1, 6) = 13.55 | **.010** |

*Abbreviations: CTL: control, F: female, G: gestational day, GBS: group B Streptococcus, M: male, P: postnatal day*