Figure	Sex	N	Test used	Test statistic	P value
1C	M + F	Lab Males=40 Lab Females=25 Wild Males=45 Wild Females=45	2-Way ANOVA with Tukey post-hoc	$F_{type(1,151)}=242.7$	$p<0.001$
1D				$F_{sex \times type(1,151)}=21.15$	$p<0.001$
1E				$F_{sex(1,151)}=59.7$ $F_{type(1,151)}=4.95$	$p<0.001$ $p=0.028$. $p_{wild\ males\text{-}lab\ males}=0.03$
2A-B	M + F	Lab Males=40 Lab Females=25	Repeated-measures ANOVA with Tukey post-hoc	$F_{Rank \times Day \times Sex(5,55)}=5.86$	$p<0.001$ $p_{males,\ \alpha\text{-submissives}}=0.0018$, $_{day\ 1}=1.00$, $_{day2}=0.013$, $_{days3\text{-}6}<0.001$ $p_{females,\ \alpha\text{-submissives}}=0.152$, $_{day\ 1}=0.43$, $_{day2}=0.408$, $_{day3}=0.711$, $_{day\ 4}=0.317$, $_{day5}=0.352$, $_{day6}=0.663$
2A-B insets			Repeated-measures ANOVA with Tukey post-hoc	$F_{Rank\ (males,4,28)}=14.0$	$p<0.001$ $p_{males,\ \alpha\text{-}\beta}=0.16$, $_{\alpha\text{-}\gamma,\delta,\varepsilon}<0.001$, $_{\beta\text{-}\gamma}=0.09$, $_{\beta\text{-}\delta}=0.045$, $_{\beta\text{-}\varepsilon}=0.002$, $_{\gamma\text{-}\delta\text{-}\varepsilon}>0.5$
				$F_{Rank\ (females,4,16)}=1.6$	$p=0.233$ $p_{females,\ \alpha\text{-}\beta}=0.481$, $_{\alpha\text{-}\gamma}=0.255$, $_{\alpha\text{-}\delta}=0.507$, $_{\alpha\text{-}\varepsilon}=0.244$, $_{\beta\text{-}\gamma\text{-}\delta\text{-}\varepsilon}>0.9$
2C-D	M + F	Wild Males=45 Wild Females=45	Repeated-measures ANOVA with Tukey post-hoc	$F_{Rank \times Day(5,80)}=3.83$	$p=0.004$ $p_{males,\ \alpha\text{-submissives}}<0.001$, $_{days\ 1\text{-}6}<0.001$ $p_{females,\ \alpha\text{-submissives}}=0.0034$, $_{day\ 1}=0.99$, $_{day2}=0.249$, $_{day3}=0.076$, $_{days\ 4\text{-}6}<0.001$
2C-D insets				$F_{Rank\ (males,4,32)}=13.1$	$p<0.001$ $p_{males,\ \alpha\text{-}\beta}=0.002$, $_{\alpha\text{-}\gamma,\delta,\varepsilon}<0.001$, $_{\beta\text{-}\gamma}=0.542$, $_{\beta\text{-}\delta}=0.609$, $_{\beta\text{-}\varepsilon}=0.211$, $_{\gamma\text{-}\delta\text{-}\varepsilon}>0.9$
				$F_{Rank\ (females,4,32)}=14.9$	$p<0.001$ $p_{females,\ \alpha\text{-}\beta}=0.007$, $_{\alpha\text{-}\gamma}=0.003$, $_{\alpha\text{-}\delta,\varepsilon}<0.001$, $_{\beta\text{-}\gamma}=0.99$, $_{\beta\text{-}\delta}=0.328$, $_{\beta\text{-}\varepsilon}=0.007$, $_{\gamma\text{-}\delta}=0.499$, $_{\gamma\text{-}\varepsilon}=0.016$, $_{\delta\text{-}\varepsilon}=0.418$
2F	M + F	Lab Males=40 Lab Females=25 Wild Males=45 Wild Females=45	Mann-Whitney (M vs. F)	$U_{Lab}=4.0$ $U_{Wild}=29.5$	$p=0.019$ $p=0.34$
2G				$U_{Lab}=4.0$ $U_{Wild}=22.0$	$p=0.019$ $p=0.113$
2H				$U_{Lab}=0$ $U_{Wild}=20$	$p=0.002$ $p=0.077$
2I				$U_{Lab}=0$ $U_{Wild}=21$	$p=0.002$ $p=0.094$
3D	M + F	Wild Males=45 Wild Females=45	Mann-Whitney (with Benjamini-Hochberg correction)	$U_{Archetype.A}=0$ $U_{Archetype.B}=3$ $U_{Archetype.I}=0$ $U_{Archetype.P}=0$	$p=0.037$ $p=0.055$ $p=0.037$ $p=0.023$
3E	M + F	Wild Males=45 Wild Females=45	Kolmogorov-Smirnov	$D_{Archetype.A}=0.333$ $D_{Archetype.B}=0.311$ $D_{Archetype.P}=0.511$	$p=0.013$ $p=0.025$ $p<0.001$

3F	M + F	Wild Males=45 Wild Females=45	Repeated randomized shuffling		$p_{Archetype.A}$=0.0036 $p_{Archetype.B}$=0.078 $p_{Archetype.I}$=0.453 $p_{Archetype.P}$=0.423
3G	M + F	Wild Males=45 Wild Females=45	Spearman correlation	$t_{(N-2)}$=-2.65	p=0.0096
3H	M + F	Wild Males=45 Wild Females=45	Spearman correlation	$t_{(N-2)}$=2.19	p=0.031
4A-B	M + F	Wild TrpC2$^{-/-}$ Males=15 Wild TrpC2$^{-/-}$ Females=30	Wilcoxon signed-rank	T_{Social}=0 $T_{Individual}$=20	p=0.003 p=0.013
4C-D	M + F	Wild TrpC2$^{-/-}$ Males=15 Wild TrpC2$^{-/-}$ Females=30	Repeated-measures ANOVA with Tukey post-hoc	$F_{Rank\ (1,7)}$=36.69	p<0.001 $p_{males,\ \alpha\text{-submissives}}$=0.015, $_{day\ 1}$=0.003, $_{days\ 2\text{-}6}$<0.001 $p_{females,\ \alpha\text{-submissives}}$=0.013, $_{day\ 1}$=0.007, $_{days\ 2\text{-}6}$<0.001
4C-D insets				$F_{Rank\ (males,4,8)}$=16.6	p<0.001 $p_{males,\ \alpha\text{-}\beta}$=0.013, $_{\alpha\text{-}\gamma}$=0.003, $_{\alpha\text{-}\delta}$=0.0013, $_{\alpha\text{-}\varepsilon}$<0.001, $_{\beta\text{-}\gamma}$=0.759, $_{\beta\text{-}\delta}$=0.288, $_{\beta\text{-}\varepsilon}$=0.124, $_{\gamma\text{-}\delta\text{-}\varepsilon}$>0.5
				$F_{Rank\ (females,4,20)}$=15.14	p<0.001 $p_{females,\ \alpha\text{-}\beta}$=0.086, $_{\alpha\text{-}\gamma,\delta,\varepsilon}$<0.001, $_{\beta\text{-}\gamma}$=0.159, $_{\beta\text{-}\delta}$=0.094, $_{\beta\text{-}\varepsilon}$=0.003, $_{\gamma\text{-}\delta}$=0.998, $_{\gamma\text{-}\varepsilon}$=0.315, $_{\delta\text{-}\varepsilon}$=0.464
4E	M + F	Wild Males=45 Wild Females=45 Wild TrpC2$^{-/-}$Males=15 Wild TrpC2$^{-/-}$ Females=30		<u>Chasing events</u>: $U_{Females}$=3 U_{Males}=8 <u>Despotism α</u>: $U_{Females}$=7 U_{Males}=10 <u>Stability α</u>: $U_{Females}$=8 U_{Males}=10.5 <u>Stability ε</u>: $U_{Females}$=9 U_{Males}=9	 p=0.006 p=0.36 p=0.022 p=0.579 p=0.029 p=0.644 p=0.039 p=0.46
5B			Mann-Whitney (with Benjamini-Hochberg correction)	$U_{Archetype.AP}$=0 $U_{Archetype.ST}$=1 $U_{Archetype.SE}$=0	p=0.008 p=0.016 p=0.008
5C			Kolmogorov-Smirnov	$D_{Archetype.AP}$=0.867 $D_{Archetype.ST}$=0.8 $D_{Archetype.SE}$=0.267	p<0.001 p<0.001 p=0.459

S1E	M + F	Lab Males=40 Lab Females=25	Friedman's ANOVA with post-hoc pairwise signed-ranks tests	χ^2_{males}=20.9 $\chi^2_{females}$=6.4	p<0.001 $p_{males,\ \alpha\text{-}\beta,\gamma,\delta,\varepsilon}$=0.014, $_{\beta\text{-}\gamma}$=0.042, $_{\beta\text{-}\delta}$=0.08, $_{\beta\text{-}\varepsilon}$=0.021, $_{\gamma\text{-}\delta}$=0.944, $_{\gamma,\delta\text{-}\varepsilon=}$0.142 p=0.17 $p_{females,\ \alpha\text{-}\beta}$=0.06, $_{\alpha\text{-}\gamma,\delta,\varepsilon}$=0.11, $_{\beta\text{-}\gamma}$=1, $_{\beta\text{-}\delta,\varepsilon}$=0.59, $_{\gamma\text{-}\delta}$=0.59, $_{\gamma\text{-}\varepsilon=}$1, $_{\delta\text{-}\varepsilon}$=0.28
S1F		Wild Males=45 Wild Females=45		χ^2_{males}=26.04 $\chi^2_{females}$=25.9	p<0.001 $p_{males,\ \alpha\text{-}\beta}$ =0.018, $_{\alpha\text{-}\gamma,\delta,\varepsilon}$=0.009, $_{\beta\text{-}\gamma}$=0.009, $_{\beta\text{-}\delta}$=0.024, $_{\beta\text{-}\varepsilon}$=0.013, $_{\gamma\text{-}\delta}$=0.058, $_{\gamma\text{-}\varepsilon=}$0.044, $_{\delta\text{-}\varepsilon}$=0.722 p<0.001 $p_{females,\ \alpha\text{-}\beta}$=0.04, $_{\alpha\text{-}\gamma,\delta,\varepsilon}$=0.009, $_{\beta\text{-}\gamma}$=0.407, $_{\beta\text{-}\delta}$=0.024, $_{\beta\text{-}\varepsilon}$=0.009, $_{\gamma\text{-}\delta}$=0.018, $_{\gamma\text{-}\varepsilon=}$0.013, $_{\delta\text{-}\varepsilon}$=0.058
S3D	M + F	Lab TrpC2$^{-/-}$ Males=40 Lab TrpC2$^{-/-}$ Females=20	Repeated-measures ANOVA with Tukey post-hoc	$F_{Rank \times Day \times Sex(5,105)}$=7.8	p<0.001 p_{males}=0.001 $p_{females}$=0.057
S3E-F	M + F	Lab Males=40 Lab Females=25 Wild Males=45 Wild Females=45 Lab TrpC2$^{-/-}$ Males=40 Lab TrpC2$^{-/-}$ Females=20 Wild TrpC2$^{-/-}$Males=15 Wild TrpC2$^{-/-}$ Females=30	Repeated-measures ANOVA with Tukey post-hoc	$F_{genotype \times day \times sex(1,1260)}$=19.94 $F_{genotype \times day \times type(1,1260)}$=7.83	P<0.001 p<0.001
S3G-H	M + F	Lab Males=40 Lab Females=25 Wild Males=45 Wild Females=45 Lab TrpC2$^{-/-}$ Males=40 Lab TrpC2$^{-/-}$ Females=20 Wild TrpC2$^{-/-}$Males=15 Wild TrpC2$^{-/-}$ Females=30	Repeated-measures ANOVA with Tukey post-hoc	$F_{genotype \times day \times sex(1,1260)}$=11.45 $F_{genotype \times day \times type(1,1260)}$=2.89	P<0.001 P=0.013
S4A$_{up}$	M + F	Lab Males=7 Lab Females=11 Wild Males=15 Wild Females=11	2-Way ANOVA with Tukey post-hoc	$F_{type(Total\ distance,\ 1,40)}$=14.54 $F_{type(center\ visits,\ 1,40)}$=48.29 $F_{type(Rearing\ time,\ 1,40)}$=7.5	p<0.001 p<0.001 p=0.009
S4A$_{down}$	F	Lab Females=11 Wild Females=11 Lab TrpC2$^{-/-}$ Females=11	2-Way ANOVA with Tukey post-hoc	$F_{type(Total\ distance,\ 1,38)}$=28.56	p<0.001 p<0.001

		Wild TrpC2$^{-/-}$ Females=9		$F_{type(center\ visits,\ 1,38)}$=65.57 $F_{type(Rearing\ time,\ 1,38)}$=34.7	p<0.001
S4B	M + F	Lab Males=40 Lab Females=25 Wild Males=45 Wild Females=45 Lab TrpC2$^{-/-}$ Males=40 Lab TrpC2$^{-/-}$ Females=20 Wild TrpC2$^{-/-}$Males=15 Wild TrpC2$^{-/-}$ Females=30	2-Way ANOVA with Tukey post-hoc	$F_{type(Males,\ 1,136)}$=48.33 $F_{type(Females,\ 1,116)}$=14.29	p<0.001 p<0.001