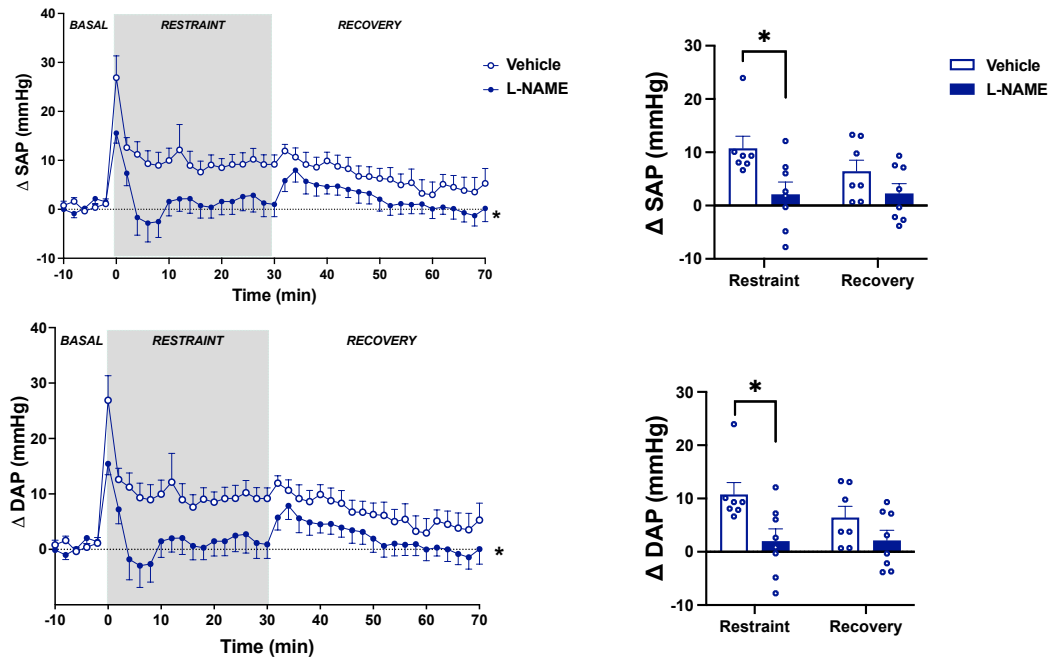


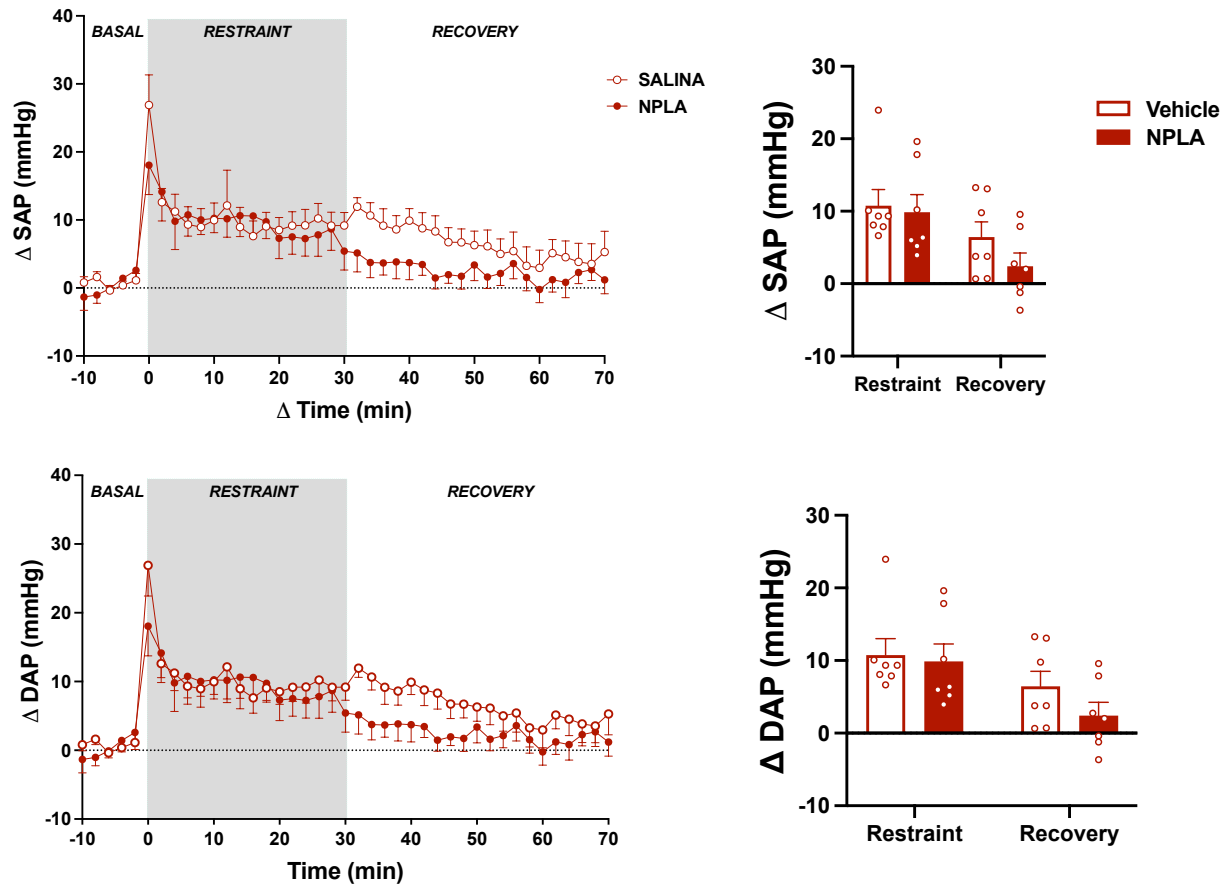
Supplementary Table 1 - Basal parameters (i.e., pre-stress values) of systolic arterial pressure (SAP) and diastolic arterial pressure (DAP) before and after treatment of the lateral hypothalamus (LH).

Group	SAP (mmHg)			DAP (mmHg)	
	<i>n</i>	<i>before</i>	<i>after</i>	<i>before</i>	<i>after</i>
Vehicle (saline)	7	116±6	117±5	79±6	79±5
L-NAME	8	121±4	122±4	83±4	84±4
NPLA	7	117±3	121±4	79±3	83±4
1400W	6	139±6	143±6	84±3	87±3
Tris-HCl	6	121±4	120±4	82±4	81±4
NOC-9	6	128±3	127±2	91±3	89±2

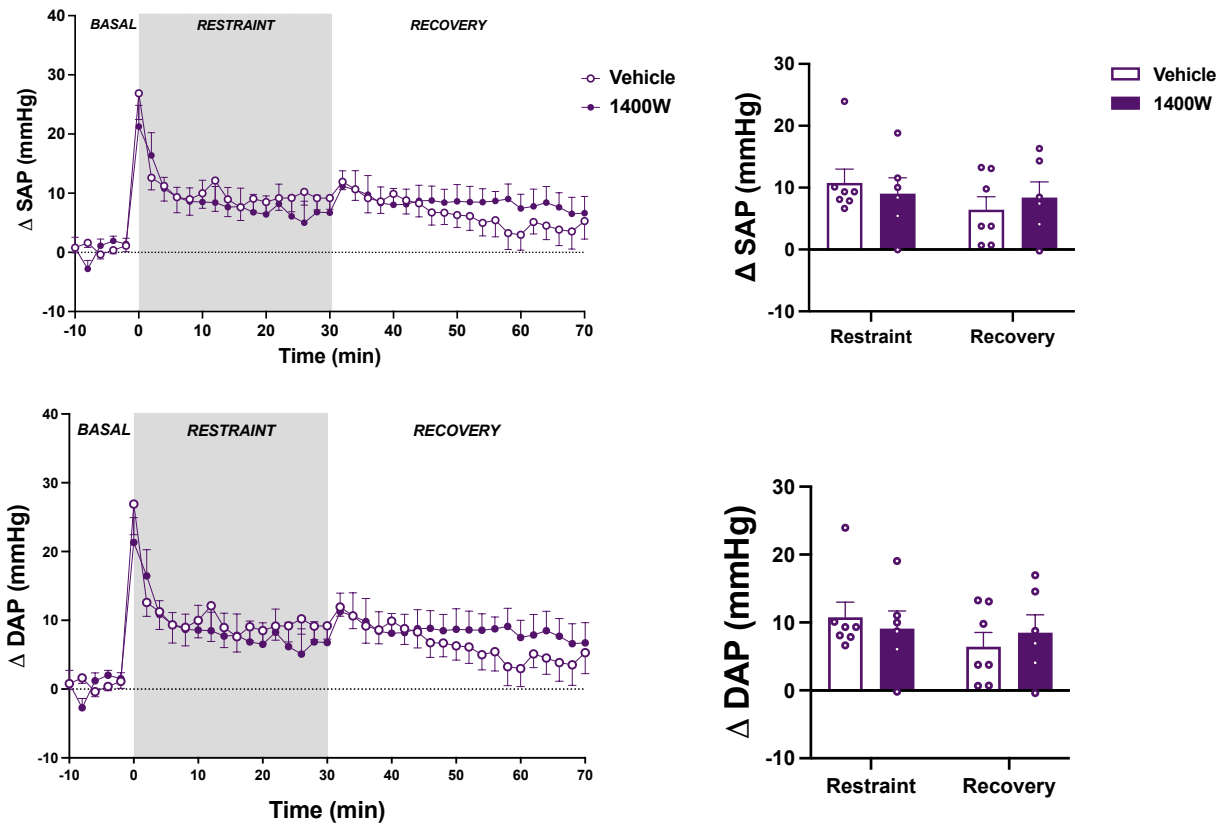
Data were expressed as error ± standard error of the mean (SEM). Student *t* test.



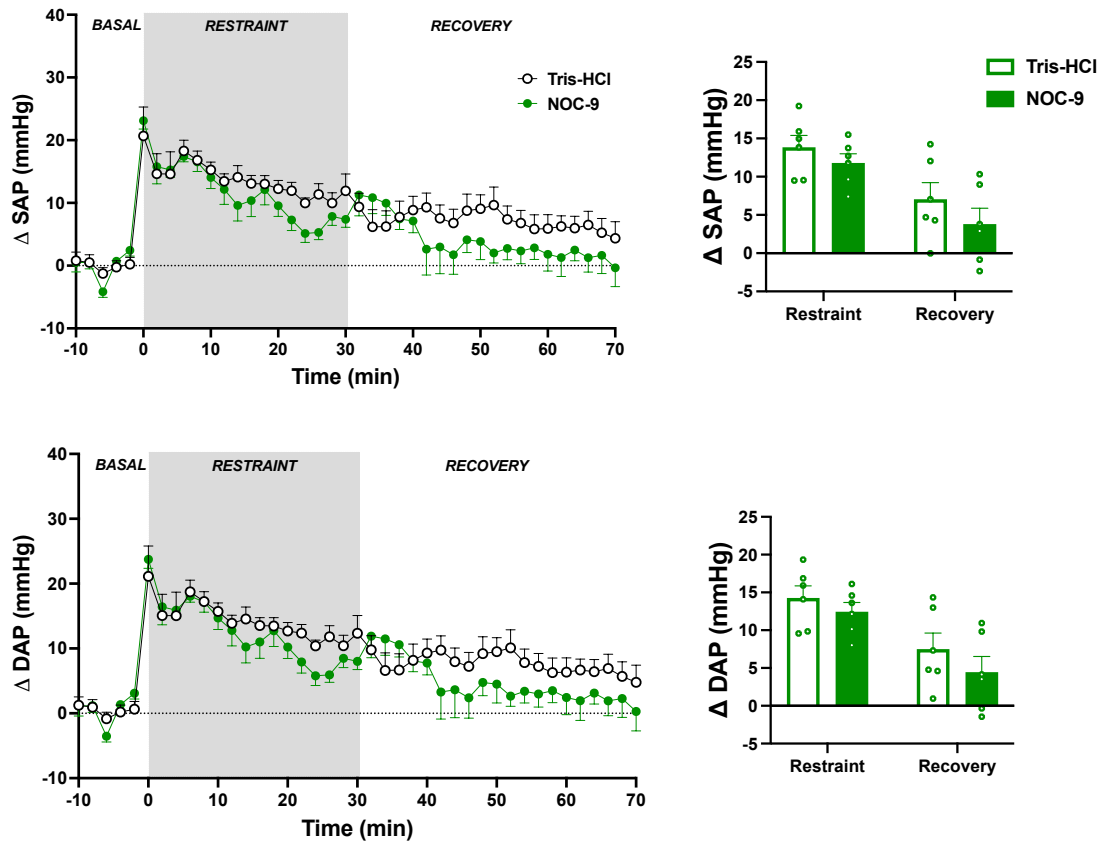
Supplementary Figure 1 - Effect of non-selective NOS inhibition within the LH on the systolic (SAP) and diastolic (DAP) blood pressure responses to acute restraint stress. (Left) Time-course curves of changes in SAP (Δ SAP) and DAP (Δ DAP) during the basal, restraint, and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; $n = 7$) or the non-selective NOS inhibitor L-NAME (4 nmol/100 nL; blue circles; $n = 8$). The shaded area represents the restraint period. * $P < 0.05$ over the entire restraint and recovery periods compared to the control group (vehicle), two-way ANOVA. **(Right)** Mean Δ MAP and Δ DAP during restraint and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; $n = 7$) or the non-selective NOS inhibitor L-NAME (4 nmol/100 nL; blue circles; $n = 8$). * $P < 0.05$, two-way ANOVA followed by Sidak's post-hoc test. Circles (left graphs) and bars (right graphs) represent mean $\pm$ SEM.



Supplementary Figure 2 - Effect of selective nNOS inhibition within the LH on the systolic (SAP) and diastolic (DAP) blood pressure responses to acute restraint stress. (Left) Time-course curves of changes in SAP (Δ SAP) and DAP (Δ DAP) during the basal, restraint, and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; $n=7$) or the selective nNOS inhibitor NPLA (0.04nmol/100nL, red circles, $n=7$). The shaded area represents the restraint period. Two-way ANOVA. (Right) Mean Δ SAP and Δ DAP during restraint and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; $n=7$) or the selective nNOS inhibitor NPLA (0.04 nmol/100nL, red circles, $n=7$). Two-way ANOVA. Circles (left graphs) and bars (right graphs) represent mean $\pm$ SEM.



Supplementary Figure 3 - Effect of selective iNOS inhibition within the LH on the on the systolic (SAP) and diastolic (DAP) blood pressure responses to acute restraint stress. (Left) Time-course curves of changes in SAP (Δ SAP) and DAP (Δ DAP) during the basal, restraint, and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; n = 7) or the selective iNOS inhibitor 1400W (0.04nmol/100nL, purple circles, n = 6). The shaded area represents the restraint period. Two-way ANOVA. **(Right)** Mean Δ SAP and Δ DAP during restraint and recovery periods in rats subjected to intra-HL microinjection of vehicle (saline, 100 nL; white circles; n = 7) or with the selective iNOS inhibitor 1400W (0.04nmol/100nL, purple circles, n = 6). Two-way ANOVA. Circles (left graphs) and bars (right graphs) represent mean $\pm$ SEM.



Supplementary Figure 4 - Effect of intra-LH microinjection of a NO donor on the on the systolic (SAP) and diastolic (DAP) blood pressure responses to acute restraint stress. (Left) Time-course curves of changes in SAP (Δ SAP) and DAP (Δ DAP) during the basal, restraint, and recovery periods in rats subjected to intra-HL microinjection of vehicle (Tris-HCl, 200 nL; white circles; $n = 7$) or the NO donor NOC-9 (75nmol/200nL, green circles, $n = 6$). The shaded area represents the restraint period. Two-way ANOVA. **(Right)** Mean Δ SAP and Δ DAP during restraint and recovery periods in rats subjected to intra-HL microinjection of vehicle (Tris-HCl, 200 nL; white circles; $n = 7$) or the NO donor NOC-9 (75nmol/200nL, green circles, $n = 6$). Two-way ANOVA. Circles (left graphs) and bars (right graphs) represent mean $\pm$ SEM.