Fig. 1D-G and S1

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| *w1118* |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
|   | Refed fly food for 5 min | \*\*\*\* |
|   | Refed fly food for 10 min | ns |
|   | Refed fly food for 30 min | ns |
|   | Refed fly food for 1 hr | ns |
|   | Refed Sucralose for 10 min | \*\*\* |
|   | Refed Sucralose for 1 hr | \*\*\*\* |
|   | Refed Glucose for 10 min | ns |
|   | Refed Glucose for 1 hr | ns |
|   | Refed Fructose for 10 min | ns |
|   | Refed Fructose for 1 hr | ns |
| Starvation vs | Refed fly food for 5 min | \*\*\* |
|   | Refed fly food for 10 min | \*\*\*\* |
|   | Refed fly food for 30 min | \*\*\*\* |
|   | Refed fly food for 1 hr | \*\*\*\* |
|   | Refed Sucralose for 10 min | \* |
|   | Refed Sucralose for 1 hr | \* |
|   | Refed Glucose for 10 min | \*\*\*\* |
|   | Refed Glucose for 1 hr | \*\*\*\* |
|   | Refed Fructose for 10 min | \*\*\*\* |
|   | Refed Fructose for 1 hr | \*\*\*\* |

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| --- | --- |
| p value | p<0.0001 |
| alpha | 0.05 |
| Multiple test (ANOVA and Tukey’s post hoc test or Kruskal-Wallis test and Dunn’s test) | Tukey test |
| F value (F (DFn, DFd)) | F (12, 75)=16.24 |

Fig. 1H

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| *w1118*, Cumulative # of licking |
| Time | Starvation vs Refed Sucralose | Starvation vs Refed Glucose |
| 0-5 | \*\* | \* |
| 5-10 | \*\* | \* |
| 10-15 | \*\* | \* |
| 15-20 | \*\* | \* |
| 20-25 | \*\* | \* |
| 25-30 | \*\* | ns |

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| --- | --- |
| alpha | 0.05 |
| p value |  |
|  Time x Refeeding conditions | <0.0001 |
|  Time | <0.0001 |
|  Refeeding conditions | 0.015 |
|  Subject | <0.0001 |
| F (DFn, DFd) |  |
|  Time x Refeeding conditions | F (24, 1140) = 3.561 |
|  Time | F (1.327, 126.1) = 59.54 |
|  Refeeding conditions | F (2, 95) = 4.389 |
|  Subject | F (95, 1140) = 31.76 |

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