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Fig. 4

Figs. 4A

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| NPF[-/-] |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | \*\*\* |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | \*\*\*\* |
| Refed Glucose for 1 hr | \*\* |
| Starvation vs | Refed fly food for 10 min | \* |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | ns |
| Refed Glucose 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 (5, 44) = 14.01 |

Figs. 4B

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| sNPF hypo |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | \* |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | \*\*\* |
| Refed Glucose for 1 hr | \*\*\* |
| Starvation vs | Refed fly food for 10 min | \*\* |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | \*\* |
| Refed Glucose 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) | Tuckey test |
| F value (F (DFn, DFd)) | F (5, 39) = 18.35 |

Figs. 4C

|  |
| --- |
| Dh44Gal4/+ |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\* |
| Refed Glucose for 10 min | ns |
| Starvation vs | Refed fly food for 10 min | \*\*\*\* |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | \*\*\*\* |

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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 (4, 25) = 27.23 |

Figs. 4D

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| Dh44Gal4>uas-Kir |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | \* |
| Starvation vs | Refed fly food for 10 min | \*\*\*\* |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | \*\*\* |

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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 (4, 38) = 21.93 |

Figs. 4E

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| AkhGal4/+ |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | ns |
| Starvation vs | Refed fly food for 10 min | \*\*\* |
| Refed Sucralose for 10 min | \*\*\* |
| Refed Glucose for 10 min | \*\*\* |

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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 (4, 30) = 14.32 |

Figs. 4F

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| AkhGal4>uas-Kir |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\*\* |
| Refed Glucose for 10 min | ns |
| Refed Glucose for 1 hr | ns |
| Starvation vs | Refed fly food for 10 min | \*\*\*\* |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | \*\*\*\* |
| Refed Glucose 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 (5, 35) = 16.47 |

Figs. 4G

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| ilp6 LOF |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | ns |
| Refed Glucose for 1 hr | ns |
| Starvation vs | Refed fly food for 10 min | \*\*\*\* |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | \*\*\*\* |
| Refed Glucose 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 (5, 48) = 23.13 |

Figs. 4H

|  |
| --- |
| Upd3Δ |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\*\*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | ns |
| Refed Glucose for 1 hr | ns |
| Starvation vs | Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | \* |
| Refed Glucose 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 (5, 37) = 14.92 |

Figs. 4I

|  |
| --- |
| Upd2Δ |
| Comparison of Tp between | p value |
| Fed vs | Starvation | \*\* |
| Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | \*\*\*\* |
| Refed Glucose for 10 min | ns |
| Refed Glucose for 1 hr | ns |
| Starvation vs | Refed fly food for 10 min | ns |
| Refed Sucralose for 10 min | ns |
| Refed Glucose for 10 min | ns |
| Refed Glucose for 1 hr | ns |

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| p value | P=0.0002 |
| 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 (5, 43) = 6.356 |

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