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Fig. 3

Figs. 3A

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| TrpA1[SH]Gal4>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 | 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, 42) = 10.02 |

Figs. 3B

|  |
| --- |
| R11F02Gal4>uas-Kir |
| 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 |
| 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 | ns |
| Refed Glucose for 1 hr | ns |

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| p value | 0.0016 |
| alpha | 0.05 |
| Multiple test (ANOVA and Tukey’s post hoc test or Kruskal-Wallis test and Dunn’s test) | Dunn's test |
| F value (F (DFn, DFd)) |  |

Figs. 3C

|  |
| --- |
| TrpA1[SH]Gal4/+ |
| 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=0.0003 |
| 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, 31) = 7.442 |

Figs. 3D

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| R11F02Gal4/+ |
| 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, 40) = 8.637 |

Fig. 3F

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| TrpA1[SH]Gal4>uas-CsChrimson |
| Comparison of Tp between | p value |
| Water + Red light vs | ATR + Red light | \* |

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| p value | P=0.0186 |
| alpha | 0.05 |
| t-test or Kolmogorov-Smirnov test | Kolmogorov-Smirnov test |

Fig. 3G

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| R11F02Gal4>uas-CsChrimson, tubGal80[ts] |
| Comparison of Tp between | p value |
| Water + Red light vs | ATR + Red light | \* |

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| p value | P=0.0192 |
| alpha | 0.05 |
| t-test or Kolmogorov-Smirnov test | Unpaired t-test |

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