b а lifetime.fecundity.25C.f locomotor.frequency.f week1.fecundity.25C.f critical.thermal.max.2020.f circadian.period.mesa.f -rapid.cold.hardening.old.m M.anisopliae.resistance.f climbing.ability.paraquat.m M.anisopliae.resistance.m lifespan.28C.m P.aeruginosa.resistance.2017.m fertility.25C.m week3.fecundity.25C.f = paraquat.resistance.2021.f P.aeruginosa.resistance.2017.f fertility.27C.m climbing ability paraquat.f circadian.period.mesa.m 2.3-butanedione.olfactory.response.intensity.f P.aeruginosa.resistance.2017.m circadian.period.chi.m • CHC.n-C26.f CHC.7-C27:1.f M.anisopliae.resistance.m locomotor.frequency.f M.anisopliae.resistance.f flight.performance.m -P.aeruginosa.resistance.2017.f fecundity.f climbing.ability.f CHC.NI.33.f glucose.low.glucose.diet.m tunicamycin.ER.stress.m day.sleep.bout.length.SD.m starvation.resistance.high.protein.diet.m phototaxis.mid.age.f parathion.resistance.m micro.environmental.plasticity.lifespan.25C.m dessication.tolerance.f day.sleep.bout.length.m night.sleep.bouts.SD.f climbing.ability.m 2.3-butanedione.olfactory.latency.30.percentile.f sprinter.marathoner.m wing.centroid.size.2019_Dworkin.m -startle.response.2012.f negative.geotaxis.msb.f activity.MPH.m micro.environmental.plasticity.lifespan.25C.f foraging.survival.m · starvation.resistance.high.fat.diet.m -sprinter.marathoner.f CHC.NI.54.m ovariole.number.f critical.thermal.min.2020.m basal.activity.f CHC.5-C25:1.f CHC.n-C29.f negative.geotaxis.msb.f exercise.induced.activity.f -T1.femur.f day.sleep.bout.length.SD.f lead.effect.locomotor.activity.m CHC.n-C28.f hydrogen.peroxide.resistance.f locomotor.activity.m acclimated.acute.cold.exposure.resistance.25C.m tergite5.f circadian.rythmicity.index.f day.sleep.m startle.response.2012.msb.f rapid.cold.hardening.old.f T1.femur.m activity.m boric.acid.resistance.f startle.response.2012.msb.m week5.fecundity.25C.f day.sleep.bout.length.f CHC.5-C27:1.f P.rettgeri.resistance.f lifespan.25C.high.yeast.f triglyceride.medium.glucose.diet.m phototaxis.mid.age.f cold.shock.acclimated.old.m CHC.5,9-C27:2 & 9-C27:1.f DDT.resistance.mortality.f CHC.NI.34.f CHC.7,11-C28:2 & 2-Me-C27.f food.intake.f -glycogen.medium.glucose.diet.m CHC.6-C24:1.m • night.sleep.bout.length.SD.m CHC.6-C23:1.m rapid.cold.hardening.young.m abdomen.length.28C.f critical.thermal.max.2020.m negative.geotaxis.msb.m CHC.3-Me-C25 & 9-C26:1.f wing.centroid.size.2019 Dworkin.f weight.low.glucose.diet.m night.sleep.bout.length.m CHC.9-C25:1.m triglyceride.low.glucose.diet.m -CHC.2-Me-C28 & 7,11-C29:2.f abdomen.length.28C.f wing.centroid.size.f -2.3-butanedione.olfactory.latency.90.percentile.f lifespan.25C.2020.m phototaxis.mid.age.m CHC.NI.34.f phototaxis.old.f CHC.n-C27.f flight.performance.m glucose.low.glucose.diet.m = CHC.NI.54.f critical.thermal.min.2020.f wing.centroid.size.m glycogen.high.glucose.diet.m E.faecalis.resistance.m startle.response.2012.msb.f micro.environmental.plasticity.lifespan.28C.f olfactory.response.heliol.m climbing.ability.m glycogen.low.glucose.diet.m activity.m CHC.7,11-C31:2.f starvation.resistance.standard.diet.m olfactory.response.2-heptanone.m CHC.3-Me-C23.m -CHC.n-C27.m negative.geotaxis.f weight.medium.glucose.diet.m triglyceride.high.glucose.diet.m alucose.medium.alucose.diet.m T1.tarsus.f paraquat.resistance.2021.m dopamine.response.to.paraquat.2021.m T1.tarsus.m T1.leg.length.f egg.adult.development.time.2016.m CHC.7-C26:1.f negative.geotaxis.msb.m rapid.cold.hardening.young.f rapid.cold.hardening.young.f -CHC.NI.20.f lifespan.28C.f flight.performance.f night.sleep.m startle.response.2012.m CHC.7-C25:1.f P.rettgeri.tolerance.f CHC.8,12-C28:2.f CHC.5-C23:1.f CHC.7-C29:1.f starvation.resistance.old.m CHC.n-C31.f night.sleep.f olfactory.response.2-phenyl.ethyl.alcohol.m parathion.resistance.m -T1.leg.length.m critical.thermal.min.within.environment.variation.plasticity.m egg.adult.development.time.2016.f P.rettgeri.tolerance.f lead.locomotor.activity.2016.f 2.3-butanedione.olfactory.strength.attraction.f lifespan.25C.2020.f startle.response.2012.f night.sleep.bout.length.SD.f CHC.5-C24:1.m • triglyceride.high.glucose.diet.m startle.response.2012.msb.m negative.geotaxis.f circadian.rythmicity.index.m CHC.2-Me-C29.m food.intake.m · micro.environmental.plasticity.lifespan.18C.f chronic.cold.exposure.resistance.m activity.MPH.m wing.centroid.size.2019_Houle.m olfactory.response.1-hexanol.m rapid.cold.hardening.young.m boric.acid.resistance.f CHC.2-Me-C29 & 8,12-C30:2.f gut.permeability.f critical.thermal.min.developmental.stability.m fertilised.egg.retention.score.f day sleep bouts f CHC.9-C25:1.m phototaxis.young.f CHC.5-C23:1.m acute.cold.exposure.resistance.18C.-6.f acute.cold.exposure.resistance.25C.m tergite6.f lifetime.fecundity.25C.f starvation.resistance.high.carb.diet.m lifespan.18C.f social.effect.aggression.m dessication.tolerance.m circadian.period.chi.f isolated.aggression.m glycogen.low.glucose.diet.m fecundity.f glycerol.low.glucose.diet.m circadian.period.chi.m CHC.9-C29:1 & 5,9-C29:2.f -CHC.9-C29:1 & 5,9-C29:2.f starvation.resistance.2012.m olfactory.response.1-hexanol.f climbing.ability.paraquat.f glycogen.2015.m glycerol.medium.glucose.diet.m CHC.n-C26.m olfactory.response.methylSalicylate.m circadian.period.mesa.m song.interpulse.interval.m • night.sleep.bout.length.f CHC.5-C25:1.m CHC.NI.54.m CHC.n-C25.m CHC.6-C23:1.m phototaxis.old.f climbing.ability.f -CHC.2-Me-C29.m circadian.rythmicity.index.f chronic.cold.exposure.resistance.f 2.3-butanedione.olfactory.attraction.f 2.3-butanedione.olfactory.attraction.m T1.tibia.m olfactory.response.heliol.f sigma.virus.sensitivity.f social.aggression.m phototaxis.young.m CHC.n-C26.m olfactory.response.benzaldehyde.2013.m dessication.tolerance.f olfactory.response.1-hexanol.m day.sleep.bouts.m = wet.weight.m CHC.13- & 11-Me-C25.f T1.tibia.f CHC.NI.33.f glucose.microbiome.effect.m night.sleep.m triglyceride.poor.diet.f P.rettgeri.resistance.f flight.performance.f posterior.lobe.size.m week1.fecundity.25C.f lifespan.high.sugar.diet.f P.aeruginosa.resistance.2019.f CHC.5-Me-C25.f -CHC.6,10-C25:2.m micro.environmental.plasticity.lifespan.18C.m lead.egg.adult.development.time.2016.m interocular.distance.m lifespan.18C.m starvation.resistance.variance.m climbing.age.decline.low.yeast.f acclimated.acute.cold.exposure.resistance.25C.f olfactory.response.ethylbutyrate.m CHC.n-C26.f week3.fecundity.25C.f locomotor.activity.2016.f glucose.2015.m CHC.3-Me-C27 & 6,10-C28:2 & 9-C28:1.f L.monocytogenes.load.m protein.high.glucose.diet.m startle.sensitivity.msb.f wing.centroid.size.2019_Houle.f circadian.rythmicity.index.m tunicamycin.LT50.m fertility.29C.m olfactory.response.2-heptanone.m paraquat.resistance.f weight.low.glucose.diet.m -CHC.n-C25.m gustatory.response.ethanol.f food.intake.f glycerol.medium.glucose.diet.m CHC.6,10-C25:2.m CHC.n-C24.m circadian.period.mesa.f CHC.x-C22:1a.m basal.activity.f interocular.distance.f DDT.resistance.knockdown.f CHC.2-Me-C30.f CHC.n-C24.m weight.medium.glucose.diet.m tergite5.f CHC.n-C29.m abdomen.length.18C.f CHC.6-C26:1 & i.m acute.cold.exposure.resistance.18C.-6.f CHC.n-C28.f CHC.7-C27:1.f kallithea.viral.load.f weight.high.glucose.diet.m -CHC.7-C23:1.f CHC.7-C25:1.m CHC.5-C24:1.f exercise.induced.activity.f P.aeruginosa.resistance.2019.f startle response 2012 m developmental.acclimation.cold.exposure.f glucose.high.glucose.diet.m lifespan high sugar diet f acclimated.acute.cold.exposure.resistance.18C.f CHC.NI.54.f acclimated.acute.cold.exposure.resistance.25C.m caffeine.resistance.f negative.geotaxis.m olfactory.response.eugenol.f starvation.resistance.high.protein.diet.m olfactory.response.ethylbutyrate.m CHC.6-C24:1.m lifespan.25C.2014.f anoxia.tolerance.adult.m isolated.aggression.m 2.3-butanedione.olfactory.attraction.m phototaxis.old.m lifespan.25C.2014.f olfactory.response.acetophenone.m day.sleep.bouts.SD.m CHC.n-C27.m starvation.resistance.high.carb.diet.m olfactory.response.D-carvone.f lead.egg.adult.development.time.2016.f CHC.3-Me-C27 & 6,10-C28:2 & 9-C28:1.f -CHC.5,9-C25:2 & 9-C25:1.f -CHC.2-Me-C27.m • startle.response.f glycerol.low.glucose.diet.m CHC.7-C27:1.m rapid.cold.hardening.18C.f acclimated.acute.cold.exposure.resistance.25C.f startle.response.m night.sleep.bouts.f -CHC.5-C27:1.f ance.25C.f deltamethrin.resistance.m T2.femur.m climbing.ability.paraquat.m food.intake.m tunicamycin.ER.stress.m CHC.n-C27.f night.sleep.SD.f olfactory.response.2-heptanone.f 2.3-butanedione.olfactory.latency.90.percentile.m weight.microbiome.effect.m thorax.length.28C.f -CHC.2-Me-C30.f CHC.n-C28.m CHC.9-C23:1.m • ovariole.number.f T2.tibia.m olfactory response hexal m glycerol.high.glucose.diet.m glycogen.medium.glucose.diet.m micro.environmental.plasticity.lifespan.18C.m night.sleep.bout.length.SD.f CHC 7-C26·1 m CHC.7-C25:1.m radiation.resistance.m night.sleep.bout.length.SD.m approach.female.m rapid.cold.hardening.25C.f olfactory.response.eugenol.f olfactory.response.1-hexanol.f attempted.copulation.frequency.m lifespan.25C.high.yeast.f gut.permeability.radiation.f weight.anexic.m micro.environmental.plasticity.lifespan.28C.m paraquat.resistance.2021.f T1.leg.length.f acute.cold.exposure.resistance.25C.m CHC.NI.7.m P.aeruginosa.fecal.pH.f night.sleep.bouts.SD.m T2.tarsus.f T1.leg.length.m T2.tarsus.m waking.activity.m aggression.2015.m startle.response.f olfactory.response.ethanol.m aggression.2015.m protein.2015.m acute.cold.exposure.resistance.25C.f CHC.9-C27:1.m • day.sleep.f MSB.resistance.m lead.effect.development.time.m CHC.9-C23:1.f lifespan.2019.f T1.tibia.f gustatory.response.ethanol.m glycerol.high.glucose.diet.m -T1.femur.m P.aeruginosa.defecation.f locomotor.activity.2016.f CHC.5-Me-C25.f T2.femur.f sigma.virus.sensitivity.f glycerol.2015.m CHC.5-C24:1.m olfactory.response.benzaldehyde.2015.f CHC.3-Me-C25.m starvation.resistance.young.m weight.high.glucose.diet.m lifespan.25C.2015.f lead.locomotor.activity.2016.m glucose.yeast.rich.diet.f rapid.cold.hardening.18C.m virgin.egg.retention.f $2.3 \hbox{-} but an edione. ol factory. latency. 30. per centile. m\\$ T1.femur.f lead.locomotor.activity.2016.m night.sleep.bout.length.m lead.effect.development.time.f starvation.resistance.high.fat.diet.m acclimated.acute.cold.exposure.resistance.18C.m acute.cold.exposure.resistance.18C.-8.f T2.leg.length.m chronic.cold.exposure.resistance.f day.sleep.bouts.SD.m olfactory.response.benzaldehyde.2013.f CHC.7-C23:1.m negative.geotaxis.m olfactory.response.ethylbutyrate.f wet.weight.m T2.leg.length.f lead.effect.development.time.f olfactory.response.eugenol.m rapid.cold.hardening.25C.m olfactory.response.benzaldehyde.2015.m starvation.resistance.young.m protein.medium.glucose.diet.m social.aggression.m starvation.resistance.yeast.poor.diet.f glycogen.2015.m fertility.thermal.susceptibility.m posterior.lobe.shape.PC2.m = $2.3 \hbox{-} but an edione. ol factory. response. in tensity.m\\$ starvation.resistance.2017.m malathion.mortality.24hr.f fertilised.egg.retention.score.f critical.thermal.min.23C.m acclimated.acute.cold.exposure.resistance.18C.f cold.shock.acclimated.old.f micro.environmental.plasticity.lifespan.18C.f malathion.mortality.6hr.m olfactory.response.benzaldehyde.2015.m MPH.effect.on.activity.m CHC.6,10-C26:2.f posterior.lobe.shape.PC1.m climbing.age.decline.low.yeast.f glucose.microbiome.effect.m CHC.7-C29:1.f acute.cold.exposure.resistance.18C.-8.m approach.female.m starvation.resistance.variance.f triglyceride.2015.m P.rettgeri.load.low.glucose.diet.m T1.tibia.m paraquat.resistance.m rapid.cold.hardening.25C.m locomotor.activity.2016.m ethanol.sensitivity.first.exposure.m cold.hardiness.f triglyceride.yeast.rich.diet.f Trait lead.egg.adult.development.time.2016.f Trait CHC.6-C24:1.f anoxia.tolerance.adult.f 2.3-butanedione.olfactory.response.intensity.m exercise.induced.activity.m olfactory.response.2-heptanone.f triglyceride.medium.glucose.diet.m olfactory.response.ethylbutyrate.f thorax.length.28C.f chronic.cold.exposure.resistance.m -P.entomophila.resistance.f starvation.resistance.young.f CHC.n-C29.f CHC.7-C26:1.m night.sleep.bouts.SD.f exercise.induced.activity.m CHC.x-C22:1a.m lead.effect.development.time.m rapid.cold.hardening.18C.f paraquat.resistance.m • olfactory.response.citral.m glucose.gnotobiotic.m malathion.mortality.3hr.m fertility.25C.m · CHC.9-C23:1.m fertility.29C.m starvation.resistance.2019.f egg.adult.development.time.2016.m starvation.resistance.old.f P.rettgeri.load.f gustatory.response.ethanol.f egg.adult.development.time.2016.f starvation.resistance.old.m CHC.7,11-C25:2.f rapid.cold.hardening.25C.f climbing.age.decline.high.yeast.f tergite6.f egg.adult.development.time.2016 m starvation resistance venoor diet f CHC.3-Me-C23.m gustatory.response.ethanol.m flock.house.virus.resistance.m radiation.resistance.m dessication.tolerance.m lifespan.25C.low.yeast.f caffeine.resistance.f waking.activity.SD.m day.sleep.bouts.SD.f day.sleep.SD.f glycerol.2015.m glucose.yeast.poor.diet.f lifespan.following.diapause.2019.f olfactory.response.hexal.m triglyceride.yeast.rich.diet.f CHC.5-C25:1.f cold.shock.old.m -CHC.9,13-C27:2.f anoxia.tolerance.adult.m malathion.mortality.24hr.m T2.tibia.m kallithea.resistance.LT50.m CHC.2-Me-C25.f wing.centroid.size.2019 Dworkin.m P.aeruginosa.intestinal.mitosis.f ethanol.sensitivity.first.exposure.f acute.cold.exposure.resistance.18C.-8.m olfactory.response.hexal.f CHC.2-Me-C25.f CHC.11 & 9-Me-C23.f T2.tibia.f CHC.2-Me-C28.m week7.fecundity.25C.f kallithea.viral.load.f 2.3-butanedione.olfactory.attraction.f starvation.resistance.2019.m 2.3-butanedione.olfactory.strength.attraction.m olfactory.response.citral.m rapid.cold.hardening.old.f malathion.mortality.6hr.f startle.response.variance.m • T2.femur.m mating.latency.2015.m T1.tarsus.f orient.towards.female.m E.faecalis.resistance.m micro.environmental.plasticity.lifespan.25C.f CHC.3-Me-C25.m paraquat.resistance.f wing.centroid.size.2019 Dworkin.f glucose.yeast.poor.diet.f protein.low.glucose.diet.m MSB.resistance.m glucose.yeast.rich.diet.f locomotor.activity.m CHC.n-C23.m CHC.7-C24:1.m kallithea.resistance.LT50.f starvation.resistance.old.f lead.locomotor.activity.2016.f starvation.resistance.voung.f lead.effect.locomotor.activity.f micro.environmental.plasticity.lifespan.28C.f olfactory.response.2-phenyl.ethyl.alcohol.m 2.3-butanedione.olfactory.strength.attraction.m • CHC.7.11-C25:2.f phototaxis.young.f basal.activity.m CHC.x,y-C24:2.f thorax.length.thermal.plasticity.f drosophila.C.virus.resistance.m posterior.lobe.size.m CHC.x,y-C24:2.m T1.tarsus.m CHC.13- & 11-Me-C25.f P.entomophila.resistance.f lifespan.28C.f night.sleep.bouts.f CHC.7,11-C28:2 & 2-Me-C27.f olfactory.response.benzaldehyde.2015.f hydrogen.peroxide.resistance.f CHC.2-Me-C26.m · startle.sensitivity.msb.m CHC.n-C28.m fertility.thermal.susceptibility.m wing.centroid.size.f lifespan.2019.f thorax.length.18C.f CHC.7-C24:1.m • CHC.n-C24.f CHC.2-Me-C29 & 8,12-C30:2.f T2.leg.length.m permethrin.knockdown.m MSB.resistance.f starvation.resistance.2017.m micro.environmental.plasticity.lifespan.25C.m olfactory.response.L-carvone.f CHC.5,9-C27:2 & 9-C27:1.f CHC.2-Me-C24.m phototaxis.old.m lifespan.25C.2020.m starvation.resistance.2012.f micro.environmental.plasticity.lifespan.28C.m posterior.lobe.shape.PC2.m startle.response.m ethanol.tolerance.m night.sleep.bouts.m CHC.7-C29:1.m ethanol.tolerance.f starvation.resistance.variance.m CHC.2-Me-C28.m CHC.6-C26:1 & i.m glucose.medium.glucose.diet.m protein.medium.glucose.diet.m malathion.mortality.24hr.f interocular.distance.m olfactory.response.acetophenone.f phototaxis.mid.age.m glycogen.high.glucose.diet.m -T2.femur.f circadian.period.chi.f starvation.resistance.2012.f acute cold exposure resistance 18C -8 f CHC.2-Me-C27.m DDT.resistance.knockdown.f CHC.11 & 9-Me-C23.f night.sleep.f critical.thermal.min.plasticity.m protein.low.glucose.diet.m malathion.mortality.12hr.f lifespan.28C.m malathion.mortality.12hr.m olfactory.response.hexal.f foraging.survival.m fertility.27C.m mass.yeast.rich.diet.f gut.permeability.radiation.f abdomen.length.18C.f CHC.NI.7.m cold.hardiness.m CHC.2-Me-C28 & 7,11-C29:2.f olfactory.response.acetophenone.f CHC.7,11-C26:2.f olfactory.response.citral.f malathion.mortality.6hr.m climbing.age.decline.high.yeast.f phototaxis.young.m T2.leg.length.f CHC.x-C22:1b.m wing.centroid.size.m olfactory.response.eugenol.m CHC.n-C29.m weight.microbiome.effect.m olfactory.response.heliol.m startle.sensitivity.msb.f developmental.acclimation.cold.exposure.f abdomen.length.thermal.plasticity.f -CHC.7-C23:1.m CHC.8,12-C26:2.f CHC.7-C25:1.f olfactory.response.L-carvone.m song.interpulse.interval.m critical.thermal.min.2020.f waking.activity.f starvation.resistance.2012.m developmental.acclimation.cold.exposure.m • glucose.anexic.m startle.response.variance.f chill.coma.recovery.variance.m interocular.distance.f CHC.6,10-C25:2.f olfactory.response.L-carvone.m triglyceride.poor.diet.f tunicamycin.LT50.m glucose.2015.m chill.coma.recovery.variance.f CHC.n-C31.f CHC.n-C31.m startle.sensitivity.msb.m olfactory.response.ethanol.f critical.thermal.min.23C.m starvation.resistance.yeast.rich.diet.f olfactory.response.ethanol.f CHC.n-C22.m startle.response.variance.f ovariole.asymmetry.f L.monocytogenes.MTD.m negative.geotaxis.sensitivity.msb.f social.effect.aggression.m CHC.7,11-C31:2.f ethanol.sensitivity.second.exposure.m malathion.mortality.3hr.f kallithea.resistance.LT50.f waking.activity.SD.m weight.gnotobiotic.m olfactory.response.methylSalicylate.f gut.permeability.f negative.geotaxis.sensitivity.msb.f olfactory.response.ethylacetate.f CHC.7-C27:1.m wing.display.frequency.m week5.fecundity.25C.f critical.thermal.min.2020.m cold.shock.acclimated.young.f -starvation.resistance.standard.diet.m cold.hardiness.f lifespan.25C.2020.f CHC.x,y-C24:2.f negative geotaxis sensitivity msb.m permethrin.mortality.24hr.m ethanol.sensitivity.first.exposure.f olfactory.response.methylSalicylate.m • genital.licking.frequency.m permethrin.knockdown.f MPH.effect.on.activity.m abdomen.length.thermal.plasticity.f kallithea.resistance.LT50.m 2.3-butanedione.olfactory.latency.90.percentile.f malathion.mortality.24hr.m protein.high.glucose.diet.m starvation.resistance.yeast.rich.diet.f ethanol.sensitivity.second.exposure.f permethrin.knockdown.f week7.fecundity.25C.f chill.coma.recovery.m permethrin.mortality.24hr.f malathion.mortality.6hr.f -CHC.3-Me-C25 & 9-C26:1.f = olfactory.response.2-phenyl.ethyl.alcohol.f CHC.5-C23:1.f P.rettgeri.load.medium.glucose.diet.m acute.cold.exposure.resistance.18C.-6.m lifespan.25C.low.yeast.f CHC.9-C23:1.f -night.sleep.bout.length.f CHC.n-C21.m CHC.7,11-C23:2.f MSB.resistance.f anoxia.tolerance.adult.f weight.anexic.m chill.coma.recovery.variance.f mass.yeast.poor.diet.f CHC.2-Me-C24.m ethanol.sensitivity.second.exposure.f P.aeruginosa.fecal.pH.f ethanol.sensitivity.second.exposure.m locomotor.activity.2016.m CHC.7-C23:1.f malathion.mortality.3hr.m rapid.cold.hardening.18C.m mass.yeast.rich.diet.f CHC.8-C25:1.f malathion.mortality.12hr.f cold.shock.acclimated.young.m P.aeruginosa.defecation.f weight.gnotobiotic.m mass.yeast.poor.diet.f -2.3-butanedione.olfactory.latency.90.percentile.m starvation.resistance.2019.m CHC.n-C31.m protein.anexic.m glucose.high.glucose.diet.m - 1 CHC.2-Me-C26.m cold.shock.acclimated.old.f = ovariole.asymmetry.f permethrin.mortality.24hr.f CHC.7,11-C26:2.f ethanol.sensitivity.first.exposure.m olfactory.response.citral.f CHC.7-C26:1.f night.sleep.SD.f olfactory.response.methylSalicylate.f olfactory.response.D-carvone.m ethanol.tolerance.m lead.effect.locomotor.activity.m cold.hardiness.m 2.3-butanedione.olfactory.response.intensity.f acute.cold.exposure.resistance.18C.-6.m CHC.5-C25:1.m protein.gnotobiotic.m -CHC.2-Me-C25.m deltamethrin.resistance.m P.rettgeri.load.low.glucose.diet.m chill.coma.recovery.f P.aeruginosa.intestinal.mitosis.f day.sleep.m • T2.tarsus.m olfactory.response.L-carvone.f malathion.mortality.12hr.m olfactory.response.heliol.f critical.thermal.min.plasticity.variation.m DDT.resistance.mortality.f protein.2015.m starvation.resistance.2019.f 2.3-butanedione.olfactory.latency.30.percentile.m CHC.7,11-C24:2.f CHC.9-C27:1.m CHC.7,11-C27:2 & 2-Me-C26.f lifespan.following.diapause.2019.f olfactory.response.benzaldehyde.2013.m day.sleep.bouts.SD.f drosophila.C.virus.resistance.m virgin.egg.retention.f -CHC.n-C23.m CHC.7,11-C27:2 & 2-Me-C26.f CHC.n-C24.f kujin.virus.resistance.f CHC.2-Me-C22.m CHC.x-C22:1b.m startle.response.variance.m CHC.2-Me-C22.f CHC.7-C29:1.m • ethanol.tolerance.f CHC.8,12-C28:2.f CHC.n-C22.f CHC.n-C22.f olfactory.response.acetophenone.m lifespan.18C.m critical.thermal.min.developmental.stability.m glucose.anexic.m • lifespan.18C.f glucose.gnotobiotic.m day.sleep.SD.f triglyceride.low.glucose.diet.m permethrin.knockdown.m -CHC.x,y-C24:2.m malathion.mortality.3hr.f CHC.6-C24:1.f CHC.2-Me-C24.f cold.shock.old.m night.sleep.SD.m wing.centroid.size.2019_Houle.m flock.house.virus.resistance.m • wing.centroid.size.2019_Houle.f L.monocytogenes.load.m CHC.2-Me-C25.m chill.coma.recovery.m olfactory.response.ethanol.m cold.shock.acclimated.young.f chill.coma.recovery.variance.m basal activity m day sleep bouts f lead.effect.locomotor.activity.f chill.coma.recovery.f cold.shock.old.f acclimated.acute.cold.exposure.resistance.18C.m critical.thermal.max.2020.f -2.3-butanedione.olfactory.strength.attraction.f lifespan.25C.2015.f CHC.n-C23.f day.sleep.f developmental.acclimation.cold.exposure.m CHC.n-C21.f CHC.x-C23:1.f 2.3-butanedione.olfactory.latency.30.percentile.f CHC.9,13-C27:2.f sprinter.marathoner.m olfactory.response.D-carvone.f olfactory.response.ethylacetate.m CHC.5-C23:1.m thorax.length.18C.f -orient.towards.female.m CHC.n-C21.m -L.monocytogenes.MTD.m kujin.virus.resistance.f wing.display.frequency.m CHC.n-C23.f genital.licking.frequency.m waking.activity.m · CHC.7,11-C23:2.f olfactory.response.benzaldehyde.2013.f negative.geotaxis.sensitivity.msb.m day.sleep.SD.m · CHC.6,10-C25:2.f permethrin.mortality.24hr.m CHC.2-Me-C22.f posterior.lobe.shape.PC1.m -P.rettgeri.load.f CHC.n-C22.m -olfactory.response.ethylacetate.f -CHC.9,13-C25:2.f night.sleep.bouts.SD.m critical.thermal.min.plasticity.m CHC.x-C23:1.f triglyceride.2015.m · critical.thermal.min.plasticity.variation.m P.rettgeri.load.high.glucose.diet.m olfactory.response.D-carvone.m attempted.copulation.frequency.m night.sleep.SD.m CHC.7,11-C24:2.f CHC.n-C21.f critical.thermal.max.2020.m night.sleep.bouts.m waking.activity.SD.f -CHC.6-C23:1.f day.sleep.bout.length.m • day.sleep.SD.m triglyceride.gnotobiotic.m • olfactory.response.2-phenyl.ethyl.alcohol.f rapid.cold.hardening.old.m -P.rettgeri.load.medium.glucose.diet.m • day.sleep.bout.length.SD.m = CHC.5-C24:1.f starvation.resistance.variance.f day.sleep.bouts.m protein.anexic.m -CHC.2-Me-C24.f waking.activity.SD.f -CHC.6-C23:1.f • thorax.length.thermal.plasticity.f critical.thermal.min.within.environment.variation.plasticity.m cold.shock.acclimated.old.m CHC.2-Me-C22.m day.sleep.bout.length.SD.f CHC.9,13-C25:2.f cold.shock.acclimated.young.m = CHC.8,12-C26:2.f paraquat.resistance.2021.m olfactory.response.ethylacetate.m dopamine.response.to.paraquat.2021.m CHC.5,9-C25:2 & 9-C25:1.f waking.activity.f cold.shock.young.f CHC.8-C25:1.f cold.shock.old.f sprinter.marathoner.f cold.shock.young.m cold.shock.young.f CHC.6,10-C26:2.f cold.shock.young.m -P.rettgeri.load.high.glucose.diet.m day.sleep.bout.length.f -triglyceride.gnotobiotic.m protein.gnotobiotic.m mating.latency.2015.m 0.25 0.50 0.00 0.25 0.50 -0.50 -0.25 0.00 -0.50 -0.25 R_F R_{M}