## Appendix A: Search strategies for the systematic literature reviews

### Head fixation literature search strategy

For the head fixation-focused search, the following searches were performed:

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| **PubMed**((head fix[All Fields] OR head fixation[All Fields] OR head fixed[All Fields] OR head fixing[All Fields]) OR (head restrained[All Fields] OR head restrainer[All Fields] OR head restraining[All Fields] OR head restraint[All Fields] OR head restraints[All Fields])) AND (("mice"[MeSH Terms] OR "mice"[All Fields] OR "mouse"[All Fields]) OR ("mice"[MeSH Terms] OR "mice"[All Fields]) OR ("rats"[MeSH Terms] OR "rats"[All Fields] OR "rat"[All Fields]) OR ("rats"[MeSH Terms] OR "rats"[All Fields])) |
| **Web of Science**TS=(head NEAR/0 fix\*) OR TS=(head NEAR/0 restrain\*) AND TS=(mouse OR mice OR rat OR rats) |
| **Scopus**TITLE-ABS-KEY ((head W/0 fix\*) OR (head W/0 restrain\*)) AND (LIMIT-TO (EXACTKEYWORD, "Mouse") OR LIMIT-TO (EXACTKEYWORD, "Rat") OR LIMIT-TO (EXACTKEYWORD, "Rats") OR LIMIT-TO (EXACTKEYWORD, "Mice")) |
| **Ovid (Medline)**"head adj restrain\*".mp. or "head adj fix\*".mp. limit to (mice or rats) |
| **Ovid (Embase)**"head restrain\*".mp. or "head fix\*".mp. limit to (mouse or rat) |

### Fluid control search strategy

For the fluid control-focused literature review, the following searches were performed:

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| **PubMed**(water deprivation[MeSH Terms] OR water depriv\* OR fluid depriv\* OR water restrict\* OR fluid restrict\* OR water regulat\* OR fluid regulat\* OR water control\* OR fluid control\*) AND (dehydration OR thirst OR weight loss OR mortality OR reward OR refinement) AND (mouse OR mice OR rat OR rats) |
| **Web of Science**(TS=(water NEAR/0 restrict\*) OR TS=(water NEAR/0 restrict\*) OR TS=(fluid NEAR/0 restrict\*) OR TS=(water NEAR/0 regulat\*) OR TS=(fluid NEAR/0 regulat\*) OR TS=(water NEAR/0 control\*) NOT TS="water (control)" OR TS=(fluid NEAR/0 control\*) OR TS=(water NEAR/0 depriv\*) OR TS=(fluid NEAR/0 depriv\*) OR TS=dehydration OR TS=thirst OR TS="weight loss" OR TS=mortality OR TS=reward OR TS=refinement) AND (TS=(mouse OR mice OR rat OR rats)) |
| **Scopus**(TITLE-ABS-KEY (water W/0 restrict\*) OR TITLE-ABS-KEY (fluid W/0 restrict\*) OR TITLE-ABS-KEY (water W/0 regulat\*) OR TITLE-ABS-KEY (fluid W/ regulat\*) OR TITLE-ABS-KEY (water W/0 control\*) OR TITLE-ABS-KEY (fluid W/0 control\*) OR TITLE-ABS-KEY (fluid W/0 depriv\*) OR TITLE-ABS-KEY (water W/ depriv\*)) AND (TITLE-ABS-KEY (dehydration) OR TITLE-ABS-KEY (thirst) OR TITLE-ABS-KEY ("weight loss") OR TITLE-ABS-KEY (mortality) OR TITLE-ABS-KEY (reward) OR TITLE-ABS-KEY (refinement)) AND (LIMIT-TO (EXACTKEYWORD, "Rat") OR LIMIT-TO (EXACTKEYWORD, "Rats") OR LIMIT-TO (EXACTKEYWORD, "Mouse") OR LIMIT-TO (EXACTKEYWORD, "Mice")) |
| **Ovid (Medline)**(Water Deprivation/ or (water adj restrict\*).mp. or (water adj depriv\*).mp. or (water adj control\*).mp. or (water adj regulat\*).mp. or (fluid adj restrict\*).mp. or (fluid adj depriv\*).mp. or (fluid adj control\*).mp. or (fluid adj regulat\*).mp.) and (refinement.mp. or reward.mp. or mortality.mp. or thirst.mp. or dehydration.mp. or weight loss.mp.) limit to (mice or rats) |
| **Ovid (Embase)**(Water Deprivation/ or (water adj restrict\*).mp. or (water adj depriv\*).mp. or (water adj control\*).mp. or (water adj regulat\*).mp. or (fluid adj restrict\*).mp. or (fluid adj depriv\*).mp. or (fluid adj control\*).mp. or (fluid adj regulat\*).mp.) and (refinement.mp. or reward.mp. or mortality.mp. or thirst.mp. or dehydration.mp. or weight loss.mp.) limit to (mouse or rat) |