ADULT BRAIN INJECTIONS

I. set up injection syringe

pull H\textsubscript{2}O into tubing using 1.5 ml syringe and 30 gauge needle; flush tubing
pull tubing, filled with water, onto precision syringe (gloves, hemostats/micro)
pull small bubble
pull infusate into tubing
*there should be no lag time of bubble movement when pulling solution in tubing
mark bubble to check movement
clamp needle (not tubing) onto flat side of cube

II. set up animal

anesthetize mouse via IP injection of avertin (0.017 ml/ gram)
shave head using clippers or scissors
put mouse into ear bars and incisor
make incision using scalpel or blade
apply local anesthetic (lidocaine 0.5% solution) and epinephrine to reduce bleeding

III. set stereotaxic coordinates

Rostral/caudal
Medial/lateral

IV. insert injection needle

Drill holes according to coordinates (triple check!)
Insert needle dorsal/ventral into brain
Turn on pump (ml/hour) at setting 1
Watch for bubble movement (should see within 45 seconds)
Inject total volume of one µl at rate of 0.5 ml/ 4-5 minutes

V. Post - op
Clamp incision and watch animal for recovery

| Avertin | epinephrine | 70% EtOH |
| clippers | lidocaine |
| scalpel/blade | stereotaxic instrument |
| Precision syringe | 30 gauge needle |
| H2O | 1.5 ml syringe |
| infusate | incision clamps |
| cotton swabs | injection pump |