

Materials List for

Gathering Self-Initiated Rat Behavioral Data to Characterize Post-Stroke Deficits

Jared Armshaw^{*1}, Grayson Butcher^{*1}, April Becker¹

¹Department of Behavior Analysis, College of Health and Public Service, University of North Texas

*These authors contributed equally

Corresponding Author

April Becker

april.becker@unt.edu

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jove.com/video/64967

Materials

Name	Company	Catalog Number	Comments
3D printer			Consult with local makerspace
bolt	Boltdepot	1346	6-32 or 8-32 by 0.5"
bolt	Boltdepot	1348	6-32 or 8-32 by 0.75"
door hinge	XJS (Amazon)	43398-16234	1" cabinet stainless steel door hinge set; Optional (if "perfect hinge" is not printed)
drill			Any electric drill works
extension spring	Nieko (Amazon)	50456A	Choose and adjust spring based on ORT sized and desired tension
granulated sugar			
lock nuts	Boltdepot	2551	6-32 or 8-32
measuring tape			
microcontroller	Arduino	A000066	Arduino Uno
microswitch	Sparkfun	KW4-Z5F	mini microswitch (SPDT-roller lever)
One Rat Turnstile (ORT)	Vulintus		Contact company to request quote if not self-assembling
Operant Chambers as desired for behavioral assessment: For this experiment we used automated isometric pull chambers from Vulintus	Vulintus	No cat #: contact Vulintus	Contact Vulintus for quote
PLA filament	OVERTURE (Amazon)	UK-MATTEPLA17511	
plexiglass	Lesnlok (Amazon)	B09P74K7BR	clear, 1/8" thickness, Cut to size
plexiglass cutter			
python program	Python Software Foundation		software available on request
RFID reader	Priority 1 Design	RFIDRW-E-USB	With antenna
RFID tag	Unified Information Devices	UC-1485-10	
rod	Boltdepot	23632	cut to > 3.5"

Rotary tool			Used to bore hole in apparatus and colony caging for ORT; any hardware usable
sand paper	HSYMQ (Amazon)	TOMPOL-1118-1915-11	
socket wrench set			Any socket wrench set works
soldering iron			
super glue		234790	
wire	Plusivo (Amazon)	EAN0721248989789	