Supplementary Table 1: Bill of Materials

Part #	Item	Serial Number	Amt.
3D Printed	Parts: Shapeways.com	contact authors for *.cad files)	
1	Sipper Tube Mounting Bracket		1
2	ACRoBaT Housing		1
3	Peristalic Pump Mount		1
4	ACRoBat Mounting Plate		1
5	Joystick Mount		1
6	Joystick Handle		1
7	Joystick Attachment		1
PCB from (OSHPark	(contact authors for *.brd files)	
1	LED Board		1
2	Joystick Board		1
Sparkfun			
1	Arduino Pro-Micro 5V/16MHz	DEV-12640	1
2	Arduino Stackable Header - 6 Pin	PRT-09280	4
3	N Channel Mosfet (TO-220)	COM-10213	1
4	Ribbon Crimp Connector - 6-pin (2x3, Female)	PRT-10651	4
5	Ribbon Cable - 6 wire (15ft)	CAB-10646	1
6	Resistor 330 Ohm 1/6 Watt PTH - 20 p	ack COM-11507	1
7	BNC Connector - Right Angle	PRT-10550	2

8	DC Barrel Jack Adapter - Breadboard Compatible	PRT-10811	1
9	Header - 2x3 (Male, 0.1")	PRT-12807	4
10	LED - Super Bright White (25 pack)	COM-09850	1
11	SMD LED - White 1206 (strip of 25)	PRT-12621	1
12	SparkFun Capacitive Touch Breakout - AT42QT1010	SEN-12041	2
13	Break Away Male Headers - Right Angle	PRT-00553	1
14	Break Away Headers – Straight	PRT-00116	1
15	Wall Adapter Power Supply - 12VDC 600mA	TOL-09442	1
16	USB microB Cable - 6 Foot	CAB-10215	1
17	Thumb Joystick	COM-09032	0
1	0.1" 36-pin Strip Right-Angle Female/Socket		
1	0.1" 36-pin Strip Right-Angle Female/Socket		
	Header (5 pack)	1542	1
2		1150	1
	Header (5 pack)		<u> </u>
	Header (5 pack)		<u> </u>
Digikey	Header (5 pack) Peristaltic Liquid Pump with Silicone Tubing	1150	1
Digikey 1	Header (5 pack) Peristaltic Liquid Pump with Silicone Tubing MAX6966	1150 MAX6966AEE+-ND	2
Digikey 1 2	Header (5 pack) Peristaltic Liquid Pump with Silicone Tubing MAX6966 TXB0108PWR APEM Inc. TSAA1S00A Joystick	1150 MAX6966AEE+-ND 296-21527-1-ND	2

2	Type 316 Stainless Steel Pan Head Phillips Machine Screw 4-40 Thread, 3/4" Length (Pack of 50)	91735A113	1
3	Type 316 Stainless Steel Pan Head Phillips Machine Screw 4-40 Thread, 7/16" Length (Pack of 50)	91735A105	2
Other			
1	Acrylic behavioral arena approximately 12" x 8" x 16" (height x width x length)	(
2	Sipper Tube http://www.altdesign.com/products/rodent-ivc/straight-open-stainless-steel-2-5-sipper-tube/	_	
3	22 gage wire		
Assembly I	Equipment		
1	Solder Station		
1	Solder Station		
1 2	Solder Station Solder		
		5)	
2	Solder	5)	
2	Solder Solder Paste (for surface mount components	;)	
3 4	Solder Solder Paste (for surface mount components Microscope	5)	
2 3 4 5	Solder Solder Paste (for surface mount components Microscope Helping Hands	;)	
2 3 4 5 6	Solder Solder Paste (for surface mount components Microscope Helping Hands Wire Stripers	5)	