

Materials List for

A High-Throughput Image-Guided Stereotactic Neuronavigation and Focused Ultrasound System for Blood-Brain Barrier Opening in Rodents

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Citation

Haumann, R., 't Hart, E., Derieppe, M.P.P., Besse, H.C., Kaspers, G.J.L., Hoving, E., van Vuurden, D.G., Hulleman, E., Ries, M. A High-Throughput Image-Guided Stereotactic Neuronavigation and Focused Ultrasound System for Blood-Brain Barrier Opening in Rodents. *J. Vis. Exp.* (), e61269, doi:10.3791/61269 (2020).

Date Published

July 16, 2020

DOI

10.3791/61269

URL

jove.com/video/61269

Materials

Name	Company	Catalog Number	Comments
1 mL luer-lock syringe	Becton Dickinson	309628	Plastipak
19 G needle	Terumo Agani	8AN1938R1	
23 G needle	Terumo Agani	8AN2316R1	
3M Transpore surgical tape	Science applied to life	7000032707	or similar
Arbitrary waveform generator	Siglent	n.a.	SDG1025, 25 MHz, 125 Msa/s
Automated stereotact	in-house built	n.a.	Stereotact with all elements were in-house built
Bruker In-Vivo Xtreme	Bruker	n.a.	Includes software
Buffered NaCl solution	B. Braun Melsungen AG	220/12257974/110	
Buprenorfine hydrochloride	Indivior UK limitd	n.a.	0.324 mg
Cage enrichment: paper-pulp smart home	Bio services	n.a.	
Carbon filter	Bickford	NC0111395	Omnicon f/air
Ceramic spoon	n.a.	n.a.	
Cotton swabs	n.a.	n.a.	
D-luciferin, potassium salt	Gold Biotechnology	LUCK-1	
Ethanol	VUmc pharmacy	n.a.	70%
Evans Blue	Sigma Aldrich	E2129	
Fresenius NaCl 0.9%	Fresenius Kabi	n.a.	NaCl 0.9 %, 1000 mL
Histoacryl	Braun Surgical	n.a.	Histoacryl 0.5 mL
Hydrophone	Precision Acoustics	n.a.	
Insulin syringe	Becton Dickinson	324825/324826	0.5 mL and 0.3 mL
Isoflurane	TEVA Pharmachemie BV	8711218013196	250 mL

Ketamine	Alfasan	n.a.	10 %, 10 mL
Mouse food: Teklad global 18% protein rodent diet	Envigo	2918-11416M	
Neoflon catheter	Becton Dickinson	391349	26 GA 0.6 x 19 mm
Oscilloscope	Keysight technologies	n.a.	InfiniiVision DSOX024A
Plastic tubes	Greiner bio-one	210261	50 mL
Power amplifier	Electronics & Innovation Ltd	210L	Model 210L
Preamplifier DC Coupler	Precision Acoustics	n..	Serial number: DCPS94
Scissors	Sigma Aldrich	S3146-1EA	or similar
Sedazine	AST Farma	n.a.	2%
SonoVue microbubbles	Bracco	n.a.	8 µl/ml
Sterile water	Fresenius Kabi	n.a.	1000 mL
Syringe	n.a.	n.a.	various syringes can be used
Temgesic	Indivior UK limitd	n.a.	0.3 mg/ml
Transducer	Precision Acoustics	n.a.	1 MHz
Tweezers	Sigma Aldrich	F4142-1EA	or similar
Ultrasound gel	Parker Laboratories Inc.	01-02	Aquasonic 100
Vidisc gel	Bausch + Lomb	n.a.	10 g