

In vivo Positron Emission Tomography to Reveal Activity Patterns Induced by Deep Brain Stimulation in Rats

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Citation

Casquero-Veiga, M., Lamanna-Rama, N., Romero-Miguel, D., Desco, M., Soto-Montenegro, M.L. *In vivo* Positron Emission Tomography to Reveal Activity Patterns Induced by Deep Brain Stimulation in Rats. *J. Vis. Exp.* (181), e63478, doi:10.3791/63478 (2022).

Date Published

March 23, 2022

DOI

10.3791/63478

URL

jove.com/video/63478

Materials

Name	Company	Catalog Number	Comments
7-Tesla Biospec 70/20 scanner	Bruker, Germany	SN0021	MRI scanner for small animal imaging
Betadine	Meda Pharma S.L., Spain	644625.6	Iodine solution (iodopovidone)
Beurer IL 11	Beurer	SN87318	Infra-red light
Bipolar cable 50 cm w/50 cm mesh covering up to 100 cm	Plastics One, USA	305-305 (CM)	
Bipolar cable TT2 50 cm up to 100 cm	Plastics One, USA	305-340/2	Bipolar cable TT2 50 cm up to 100 cm
Buprex	Schering-Plough, S.A	961425	Buprenorphine (analgesic)
Ceftriaxona Reig Jofré 1g IM	Laboratorio Reig Jofré S.A., Spain	624239.1	Ceftriaxone (antibiotic)
Commutator	Plastics One, USA	SL2+2C	4 Channel Commutator for DBS
Concentric bipolar platinum-iridium electrodes	Plastics One, USA	MS303/8-AIU/Spc	Electrodes for DBS
Driller	Bosh	T58704	Driller
FDG	Curium Pharma Spain S.A., Spain	----	2-[18F]fluoro-2-deoxy-D-glucose (PET radiotracer)
Heating pad	DAGA, Spain	23115	Heating pad
Ketolar	Pfizer S.L., Spain	776211.9	Ketamine (anesthetic drug)
Lipolasic 2 mg/g	Bausch & Lomb S.A, Spain	65277	Ophthalmic lubricating gel
MatLab R2021a	The MathWorks, Inc		Support software for SPM12
MRICro	McCausland Center for Brain Imaging, University of South Carolina, USA	v2.1.58-0	Software for imaging preprocessing and analysis
Multimodality Workstation (MMWKS)	BiiG, Spain		Software for imaging processing and analysis
Omicrom VISION VET	RGB Medical Devices, Spain	731100 Rev B	Cardiorrespiratory monitor for small imaging
Prevex Cotton buds	Prevex, Finland	----	Cotton buds

Sevorane	AbbVie Spain, S.L.U, Spain	673186.4	Sevoflurane (inhalatory anesthesia)
Small screws	Max Witte GmbH	1,2 x 2 DIN 84 A2	Small screws
Standard U-Frame Stereotaxic Instrument for Rat, 18° Ear Bar	Harvard Apparatus, USA	75-1801	Two-arms Stereotactic frame for rat
Statistical Parametric Mapping (SPM12)	The Wellcome Center for Human Neuroimaging, UCL Queen Square Institute of Neurology, UK	SPM12	Software for voxel-wise imaging analysis
STG1004	Multi Channel Systems GmbH, Germany	STG1004	Isolated stimulator
SuperArgus PET/CT scanner	Sedecal, Spain	S0026403	NanoPET/CT scanner for small animal imaging
Suture thread with needle, 1°	Lorca Marín S.A., Spain	55325	Braided natural silk non-absorbable suture 1/0, with triangle needle
Technovit 4004 (powder and liquid)	Kulzer Technique, Germany	64708471; 64708474	Acrylic dental cement for craniotomy tap
Wistar rats (<i>Rattus norvegicus</i>)	Charles River, Spain	animal facility	Animal model used
Xylagesic	Laboratorios Karizoo, A.A, Spain	572599-4	Xylazine (anesthetic drug)
	Normon S.A., Spain	602910	Mepivacaine in gel for topical use