

Materials List for:

# Semiautomated Longitudinal Microcomputed Tomography-based Quantitative Structural Analysis of a Nude Rat Osteoporosis-related Vertebral Fracture Model

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URL: <https://www.jove.com/video/55928>

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## Materials

Name	Company	Catalog Number	Comments
Isoflurane	MWI Animal Health, Pasadena, CA	501017	
BetadineSolution	MWI Animal Health, Pasadena, CA	4677	
Chlorhexidine Gluconate 2% scrub	MWI Animal Health, Pasadena, CA	510083	
Isopropyl Alcohol 70%-quart	MWI Animal Health, Pasadena, CA	501044	
Carprofen	MWI Animal Health, Pasadena, CA	26357	
Buprenorphine 0.3 mg/mL	MWI Animal Health, Pasadena, CA	56163	
Ovariectomized Athymic nude rats	Harlan Laboratories, Indianapolis, IN	Hsd:RH-Foxn1 rnu	
Low calcium food	Newco Distributors, Inc., CA	1814948 (5AV8 AIN-93M w/low calcium)	
Phosphate Buffered Saline	Life Technologies Corporation	14190250	
Dermabond	J AND J ETHICON	DHVM12	
Anesthesia machine	Patterson Scientific	TEC 3EX	
Slide Top Induction Chambers	Patterson Scientific	78917833	
ProStation Heated Workstation	Patterson Scientific	78914731	
Surgical drape	HALYARD HEALTH INC	89101	
Magnetic fixator retraction system	Fine Science Tools, Inc., CA	18200-50	
Dissecting Scissors, 10 cm, Curved, SS	World Precision Instruments, FL	14394	
Iris Scissors, 11.5 cm, 45 °Angle, Serrated, Sharp/Sharp	World Precision Instruments, FL	503225	
Forceps, no. 5	World Precision Instruments, FL	555048FT	
Micro Mosquito Hemostatic Forceps	World Precision Instruments, FL	503360	
Sterile cotton gauze	Medtronic, MINNEAPOLIS, MN	9024	
Absorption Spears - Mounted/ Sterile	Fine Science Tools, CA	18105-01	
Syringe, 1 mL	TERUMO TERUMO MED	SS-01T	
Needle, 25 gauge	BD MED SYS INJECTION SYS	305127	
Laminar flow hood	Baker	SterilGARD e3-Class II Type A2 Biosafety Cabinet	
Thermal Cautery Unit	World Precision Instruments, FL	501292	

Micro-Drill OmniDrill115/230V	World Precision Instruments, FL	503598	
Trephines for Micro Drill, 2 mm diameter	Fine Science Tools, CA	18004-20	
3-0 Vicryl undyed 27" SH taper	J AND J ETHICON	1663G	
4-0 Ethilon black 18" PC3 conventional cutting	J AND J ETHICON	1954G	
Conebeam in vivo microCT (vivaCT 40)	Scanco Medical	vivaCT 40	
SCANCO Medical microCT systems software suite	Scanco Medical	vivaCT 40	
Analyze software	Biomedical Imaging, Mayo Clinic, Rochester, MN	Analyze 12	Image analysis software
Veterenery eye ointment			