

A Single Cell Dissociation Approach for Molecular Analysis of Urinary Bladder in the Mouse Following Spinal Cord Injury

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Materials

Name	Company	Catalog Number	Comments
2.5 X Magnifying Loupes			
7-0 Vicryl suture, 6.5mm needle 3/8 circle	ETHICON	J546	
70 µm Cell Strainer	Thermofisher	22363548	
Accutase in BPBS, 0.5mM EDTA	Millipore	SCR005	
Aerosol Filter Wide Orifice Pipettor Tips (1000 µL)	VWR	89049-168	
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APC anti-mouse CD326 (Ep-CAM), rat monoclonal, IgG2a, κ, affinity purified	BioLegend	118213	
BB515 Rat Anti-Mouse CD45, rat monoclonal, IgG2b, κ, Clone 30-F11	BD Biosciences	564590	
BONN Micro Dissecting Forceps, Straight, 1x2 teeth, 3.75" length, 0.3mm tip width, 0.12mm teeth	ROBOZ Surgical Instrument Company, Inc.	RS-5172	ROBOZ Surgical Instrument Company, Inc., Gaithersburg MD
Bovine Serum Albumin	Sigma	A9647-100G	
CaCl ₂	Sigma	2115-250ML	
CASTROVIEJO Micro Suturing Needle Holder, Straight with lock, 5.75" length	ROBOZ Surgical Instrument Company, Inc.	RS-6412	ROBOZ Surgical Instrument Company, Inc., Gaithersburg MD
Cell Counting Kit, 30 dual-chambered slides, 60 counts, with trypan blue	Biorad	1450003	
Cell Staining Buffer	BioLegend	420201	

Collagenase from Clostridium histolyticum	Sigma	C0130-1G	
Collagenase Type I	Worthington Biochemical Corporation	LS004196	
Collagenase Type III	Worthington Biochemical Corporation	LS004182	
Collagenase, Type 6	Worthington Biochemical Corporation	LS005319	
Dead Cell Apoptosis Kit with Annexin V Alexa Fluor 488 & Propidium Iodide (PI)	ThermoFisher	V13241	
Dispase II	Sigma	D4693-1G	
DNase	Sigma	DN25-1G	
Enrofloxacin (Baytril)	Bayer Health Care LLC,	NADA # 140-913 Approved by FDA. Lot No.: AH01CGP	2.27% Injectable Solution
Falcon 15 ml conical centrifuge tubes	Fisher Scientific	352096	
Falcon 50 ml conical centrifuge tubes	Fisher Scientific	352070	
FITC anti-mouse Ly-6A/E (Sca-1) Antibody, rat monoclonal, IgG2a, κ, affinity purified	BioLegend	122505	
Hyaluronidase from sheep testes, Type II	Sigma	H2126	
MACS SmartStrainers (100 μm)	Miltenyi Biotec, Inc.	130-110-917	
McPHERSON-VANNAS, Micro Dissecting Spring Scissors, Straight, 4" length, 0.15mm tip width	ROBOZ Surgical Instrument Company, Inc.	RS-5630	ROBOZ Surgical Instrument Company, Inc., Gaithersburg MD
Meloxicam	Patterson Veterinary	07-891-7959	
Papain	Worthington Biochemical Corporation	LS003119	
PE/Cy5 anti-mouse CD19 Antibody, rat monoclonal, IgG2a, κ, affinity purified	BioLegend	115509	Dump Channel
PE/Cy5 anti-mouse CD3ε Antibody, Armenian hamster monoclonal, IgG, affinity purified	BioLegend	100309	Dump Channel
PE/Cy5 anti-mouse CD4 Antibody, rat monoclonal, IgG2b, κ, affinity purified	BioLegend	100409	Dump Channel
PE/Cy5 anti-mouse CD8a Antibody, rat monoclonal, IgG2a, κ, affinity purified	BioLegend	100709	Dump Channel
PE/Cy5 anti-mouse NK-1.1 Antibody, mouse monoclonal, IgG2a, κ, affinity purified	BioLegend	108715	Dump Channel
PE/Cy5 anti-mouse TER-119/ Erythroid Cells Antibody, IgG2b, κ, affinity purified	BioLegend	116209	Dump Channel
Purified Rat Anti-Mouse CD16/ CD32 (Mouse BD Fc Block), rat monoclonal, IgG2b, κ, Clone 2.4G2	BD Biosciences	553141	
RBC Lysis Buffer (10X)	BioLegend	420301	
Red Blood Cell Lysis Buffer 1x	BioLegend	420201	
Screw-Cap microcentrifuge tubes, 1.5 ml	VWR	89004-290	
TC20 Automated Cell Counter	Biorad	1450102	
Triple antibiotic ointment (neomycin/ polymyxin B/ bacitracin)	Patterson Veterinary	07-893-7216	skin protectant
TrypLE Select Enzyme (10X), no phenol red	ThermoFisher	A1217701	
Vetropolycin eye ointment	Dechra Veterinary Products	NADA # 065-016. Approved by FDA.	protect eyes during anesthesia