

Materials List for:

# Lung MicroRNA Profiling Across the Estrous Cycle in Ozone-Exposed Mice

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## Materials

Name	Company	Catalog Number	Comments
C57BL/6J mice	The Jackson Laboratory	000664	8 weeks old
UltraPure Water	Thermo Fisher Scientific	10813012	
Sterile plastic pipette	Fisher Scientific	13-711-25	Capacity: 1.7mL
Frosted Microscope Slides	Thermo Fisher Scientific	2951TS	
Light microscope	Microscope World	MW3-H5	10X and 20X objective
Ketathesia- Ketamine HCl Injection USP	Henry Schein Animal Health	55853	90 mg/kg. Controlled drug.
Xylazine Sterile Solution	Lloyd Laboratories	139-236	10mg/kg. Controlled Drug.
Ethanol	Fisher Scientific	BP2818100	Dilute to 70% ethanol with water.
21G gauge needle	BD Biosciences	305165	
Syringe	Fisher Scientific	329654	1mL
Operating Scissors	World Precision Instruments	501221, 504613	14cm, Sharp/Blunt, Curved and 9 cm, Straight, Fine Sharp Tip
Tweezer Kit	World Precision Instruments	504616	
Spectrum Bessman Tissue Pulverizers	Fisher Scientific	08-418-1	Capacity: 10 to 50mg
RNase-free Microfuge Tubes	Thermo Fisher Scientific	AM12400	1.5 mL
TRIzol Reagent	Thermo Fisher Scientific	15596026	
Direct-zol RNA MiniPrep Plus	Zymo Research	R2071	
NanoDrop	Thermo Fisher Scientific	ND-ONE-W	
miScript II RT kit	Qiagen	218161	
Mouse Inflammatory Response & Autoimmunity miRNA PCR Array	Qiagen	MIMM-105Z	
Thin-walled, DNase-free, RNase-free PCR tubes	Thermo Fisher Scientific	AM12225	for 20 µl reactions
miRNeasy Serum/Plasma Spike-in Control	Qiagen	219610	
Microsoft Excel	Microsoft Corporation		<a href="https://office.microsoft.com/excel/">https://office.microsoft.com/excel/</a>
Ingenuity Pathway Analysis	Qiagen		<a href="https://www.qiagenbioinformatics.com/products/ingenuity-pathway-analysis/">https://www.qiagenbioinformatics.com/products/ingenuity-pathway-analysis/</a>
R Software	The R Foundation		<a href="https://www.r-project.org/">https://www.r-project.org/</a>
Thermal cycler or chilling/heating block	General Lab Supplier		
Microcentrifuge	General Lab Supplier		
Real-time PCR cycler	General Lab Supplier		
Multichannel pipettor	General Lab Supplier		

RNA wash buffer	Zymo Research	R1003-3-48	48 mL
DNA digestion buffer	Zymo Research	E1010-1-4	4 mL
RNA pre-wash buffer	Zymo Research	R1020-2-25	25 mL
Ultraviolet ozone analyzer	Teledyne API	Model T400	<a href="http://www.teledyne-api.com/products/oxygen-compound-instruments/t400">http://www.teledyne-api.com/products/oxygen-compound-instruments/t400</a>
Mass flow controllers	Sierra Instruments Inc	Flobox 951/954	<a href="http://www.sierrainstruments.com/products/954p.html">http://www.sierrainstruments.com/products/954p.html</a>