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Working

U Mass - Surgery – tail vein injection

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Mouse Metabolic Phenotyping Centers

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ABSTRACT

Summary:

Intravenous administration via tail vein is used to acutely deliver drug, hormones, and adenoassociated virus in mice. A large fraction of injectate will be cleared by liver.

EXTERNAL LINK

https://mmpc.org/shared/document.aspx?id=157&docType=Protocol

MATERIALS

NAME	CATALOG #	VENDOR	CAS NUMBER	RRID
Heat Lamp				
1 ml syringes	309659			
1 ml syringes (or U-100 Insulin Syringe)	329461	BD Biosciences		
27G needles	305109			
0.9% Saline	0409-4888-10	Hospira(Pfizer)		
70% Ethanol				

MATERIALS TEXT

Note:

Hospira, RRID:SCR_003985
BD Biosciences, RRID:SCR_013311

1 Place mice in clean cages and keep warm with a heat lamp for ~5 min with constant monitoring to induce vasodilation.

2 Transfer mice to a restrainer with a hole for the tail.

3 Apply 70% Ethanol wipes to tail and turn 45º for a visible presentation of tail vein.

4 Introduce a 27G syringe into tail vein to administer an injectate into mice. (For precise volume introduction, a U-100 insulin syringe can be

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used to avoid dead volumes.)

5 Apply light pressure over the injection site for ~30 sec to prevent backflow.

6 Return mice to housing cages and monitor for the next several days for any evidence of swelling or complications at the injection site.

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