

Session 4: Injection Techniques Mice or Rats

Pre-requisites: Session 1 and Session 2 or 3

Overview: Injections are common and important procedure utilized in the research setting. The course includes a demonstration of proper restraint and injection techniques for Subcutaneous, Intraperitoneal injections and (Intravenous tail vein upon request) in mice and or rats. Instruction is provided on the basics of proper injection techniques. This is a hands-on training session performed in the vivarium by request.

Required reading/pre-course material:

Video is available at:

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=03c675d8-ed00-4980-87d8-a8b900f1f71f>

and must be viewed before attending this class. A written training module pertinent to Injection Techniques will also be passed out at the time of training.

Topics covered:

- Basics and a few tips
- Recommended Volume and Needle gauges by injection type
- Types and parts of syringes and needles
- Preparation for Injections
- Sub-cutaneous Injections (SQ,SC)
- Intra-Peritoneal injections (IP)
- Intra-venous Tail Vein injections (IV) **Training provided upon request.**
- Needle safety
- Monitoring
- What to do if you poke yourself with the needle or inject yourself