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19/10/2016

Standard Operating Procedure
Tamoxifen Administration

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Preparing tamoxifen

- Dissolve 100mg of tamoxifen in 100µl 96% ethanol [final concentration 1g/ml]
- Vortex thoroughly
- Add 900µl corn oil [final concentration 100mg/ml]
- Vortex
- Incubate 15 min at 56°C
- Sonicate until everything is dissolved
- Store aliquots at -20°C
- Alternatively, dissolve tamoxifen directly in corn oil (for less concentrated stock, e.g. 25mg/ml), incubate at 42°C until everything is dissolved, aliquot and store at -20°C.

Oral Application of Tamoxifen

- Use 18-20 gauge feeding tube about 3.81 cm in length with a rounded tip
- Maximum dosing volume is 10ml/kg. 1-5 mg tamoxifen (50-100 µl) are administered.
- Check the length of the gavage tube by measuring from the tip of the animal's head to the last rib (see image A).
- Restrain the animal
- Hold the animal's head in place by gently extending the head back—this extension of the head creates a straight line through the neck and esophagus
- Place the gavage tube into the mouth. The tube is then gently advanced along the upper palate until the esophagus is reached. The tube should pass easily into the esophagus. The animal may swallow as the tube is passed. Pass the tube smoothly in one motion (see image B). Note: If there is any resistance, do not force the tube. Pull the tube out and try again.
- Change status of mice in iRATS to "in experiment", choose severity 1
- Procedure may be repeated!



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I.p. Application of Tamoxifen

- Inject mouse with 1-5 mg tamoxifen (50-100 μ l) i.p. or inject 1mg i.c. (10 μ l)
- Repeat if needed (every 2nd day for a longer period of time or every day for 5-8 days)
- Change status of mice in iRATS to “in experiment”, choose severity 1

Application of Tamoxifen in chow

- Use mouse food pellets with 400mg/kg tamoxifen
- Feed mouse with tamoxifen-pellets or normal food
- Change status of mice in iRATS to “in experiment”, choose severity 1