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## Center for Musculoskeletal Research

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## Histology and Histomorphometry Core

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### CALCEIN INJECTION FOR DYNAMIC HISTOMORPHOMETRY

#### **Mice are injected with calcein, 20 mg/kg**

To make up calcein:

0.2g sodium bicarbonate, 0.02g of calcein,

Add 10 mls of dH<sub>2</sub>O, stir, then filter sterilize. Can keep for up to 2 weeks wrapped in foil at 4C Inject 100 mcl per 10 g of body weight intraperitoneally

For mice about 4 weeks old, dose interval 24 hours and sacrifice 24 hours after last fluorochrome injection

For 6 week old mice, dose interval 4 days and sacrifice 48 hours after last injection.

For 10 week old mice, dose interval 1 week and sacrifice 48 -72 hours after last injection.

Carefully dissect bones free of muscle and connective tissue, fix in 70% Ethanol and deliver to the core with a filled out requisition