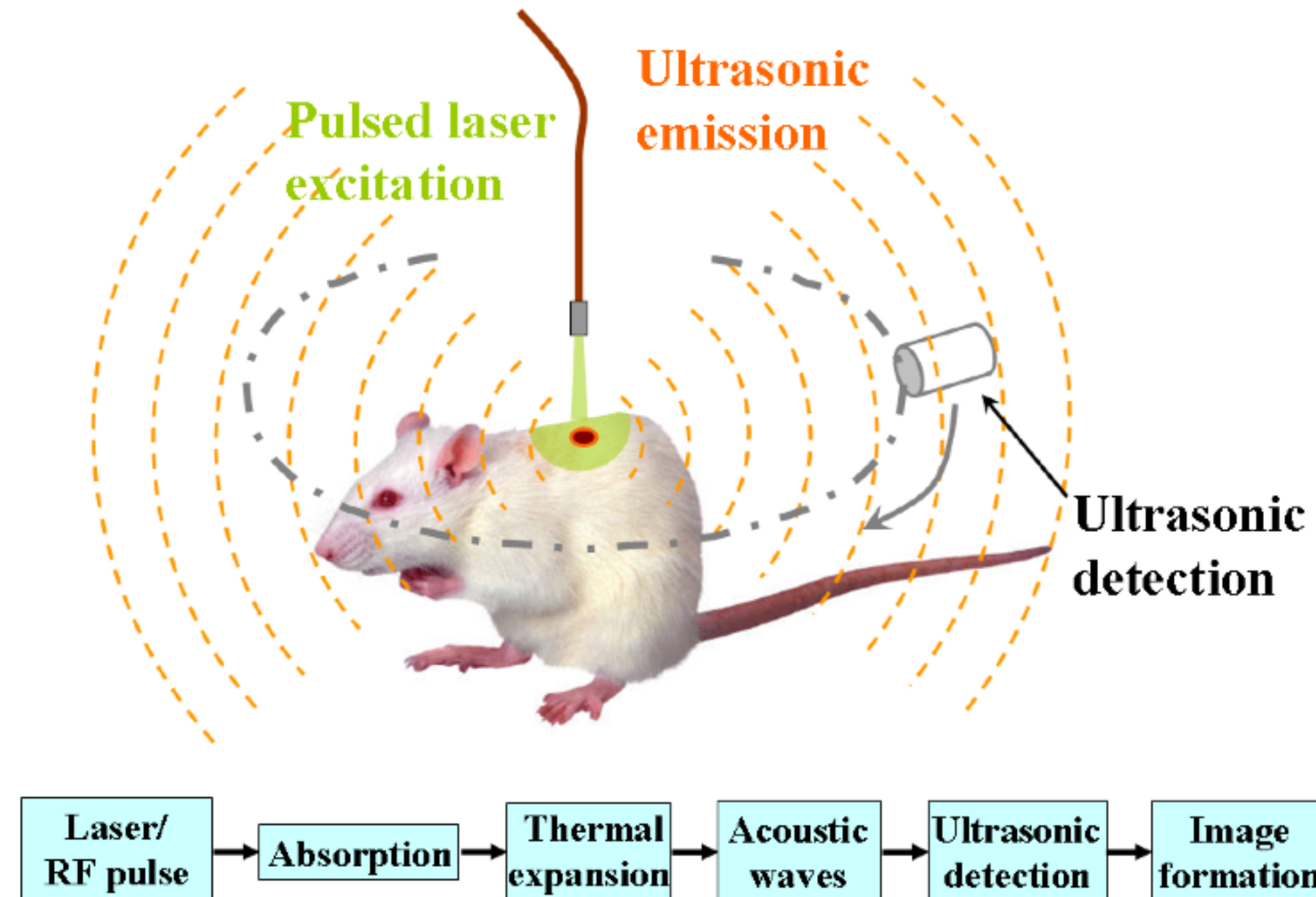


# Photoacoustic Imaging

MultiPhysics imaging modality – laser optics & ultrasound

- Light in, sound out



# Forward Problem

Given initial pressure distribution calculate pressure at receivers:

$$\frac{1}{c_0^2} \frac{\partial^2}{\partial t^2} u(x, t) - \Delta u(x, t) = 0$$

$$u(x, 0) = p_0(x)$$

$$\frac{\partial}{\partial t} u(x, 0) = 0$$

