

**Laboratory:** Developmental cardiology

**Speaker:** Jan Neckář, Jaroslav Hrdlička

**Topic:** Noninvasive assessment of progressive cardiac dysfunctions in animal models of cardiovascular diseases

**Annotation:** Cardiovascular diseases remain the leading cause of death worldwide. Ischemic cardiac disease is the most prevalent and can lead to life-threatening cardiac dysfunction and heart failure. Noninvasive methods are ideal for assessing cardiac function in clinical and experimental setups. High-resolution echocardiography is suitable for neonatal to adult animals with minimal interference with their welfare and can precisely describe cardiovascular anatomy and function in experimental models.