34 Regulation of the Heart

Intrinsic regulation of cardiac function

1. What is the difference between heterometric and homeometric regulation?
2. Define preload and afterload.

Extrinsic regulation of cardiac function

1. What are the heart rates for different animals?
2. How is heart rate related to body size, metabolic rate, and autonomic balance?
3. Explain the innervation of the heart.
4. Define the following: chronotropic action (chronotropy), inotropic action (inotropy), dromotropic action (dromotropy), and bathmotropic action (bathmotropy).
5. Explain chemical and hormonal control of the heart.