

Features:

- Provides researchers with the most comprehensive and up-to-date review of the use of anesthesia and analgesia in laboratory animals
- Includes complete coverage of agents' impact in research outcomes
- Thoroughly updated with new material on ferrets, birds, reptiles, amphibians, fish and cephalopods
- Covers hot topic areas such as pain research, ethical issues, legal issues and imaging studies

Περιεχόμενα:**SECTION I ETHICAL, REGULATORY, and SCIENTIFIC CONSIDERATIONS**

1. Ethical Considerations
2. Regulatory Considerations, US and International
3. Optimising anaesthesia and analgesia for specific research projects

SECTION II PRINCIPLES of ANESTHESIA and ANALGESIA

4. Injectable Anesthetics including Delivery Systems (where applicable)
5. Anesthetic Adjuncts including Sedatives, Tranquilizers, and Local Anesthetics
6. Inhalant Anesthetics including Delivery and Safety
7. Analgesics including Novel Delivery Systems (eg oral, transdermal, slow release formulations etc)
8. Neuromuscular Blocking Agents

SECTION III ANESTHETIC EQUIPMENT and MONITORING

9. Anaesthetic equipment (ventilators etc)
10. Monitoring of Anesthesia

SECTION IV PERIPROCEDURAL CARE

11. General Care: During and after the Procedure
12. Assessing Pain in Laboratory Species
13. Pain management in Laboratory Species

SECTION V PRACTICAL CONSIDERATIONS BY SPECIES

14. Anesthesia and Analgesia in Rodents
15. Anesthesia and Analgesia in Rabbits
16. Anesthesia, Restraint and Analgesia of Laboratory Fishes
17. Anesthesia and Analgesia in Swine
18. Anesthesia and Analgesia in Nonhuman Primates
19. Anesthesia and Analgesia in Dogs and Cats
20. Anesthesia and Analgesia of Ruminants
21. Anesthesia and Analgesia in Ferrets
22. Anesthesia and Analgesia in Other Mammals
23. Anesthesia and Analgesia in Birds
24. Anesthesia and Analgesia in Reptiles
25. Anesthesia and Analgesia in Amphibians
26. Anesthesia and Analgesia of Invertebrates

SECTION VI SPECIAL TOPICS

27. Management of Chronic Pain
28. Anesthesia and Analgesia in the Fetus and Neonate
39. Anesthetic Considerations for In Vivo Imaging Studies
30. The Study of Pain