

The Experimental Fish - Program Syllabus (U.S. Version)



Module 1: Regulation of Experimental Animal Care and Use

- 1.1 Animal Welfare in the U.S
- 1.2 Animal Welfare Assurances
- 1.3 Responsibilities of Institutional Animal Care and Use Committees
- 1.4 Roles and Responsibilities of Laboratory Animal Users and Care Providers
- 1.5 Categories of Pain and Distress
- 1.6 Regulation of Experimental Animal Use Quiz

Module 2: Ethical Issues of Experimental Animal Use

- 2.1 The Animal Welfare Movement
- 2.2 Scientific Integrity
- 2.3 Replacement, Reduction and Refinement: The Three Rs
- 2.4 Contentious Issues of Experimental Animal Use
- 2.5 Ethical Issues of Experimental Animal Use Quiz

Module 3: Fish as Research Animals

- 3.1 Fish as Experimental Models
- 3.2 Responsibility of the Investigator
- 3.3 Role of the Animal Care Technician / Veterinarian in Research
- 3.4 Environmental Enrichment for Aquatic Animals
- 3.5 Humane Endpoints
- 3.6 Fish as a Research Animal Quiz

Module 4: Aquatic Animal Facilities

- 4.1 Aquatic Animal Holding Facilities
- 4.2 Facility Operation and Maintenance Issues
- 4.3 Standard Operating Procedures
- 4.4 Disinfection Protocols
- 4.5 Aquatic Animal Facilities Quiz

Module 5: Aquatic Animal Care

- 5.1 Water Quality Parameters Required for Life Support
- 5.2 Other Water Quality Parameters
- 5.3 Fish Feeding and Nutrition
- 5.4 Animal Records and Monitoring
- 5.5 Aquatic Animal Transport and Acclimation
- 5.6 Aquatic Animal Handling and Restraint

Module 6: Fish Disease, Anesthesia, and Euthanasia

- 6.1 Fish Disease
- 6.2 Anesthesia
- 6.3 Euthanasia
- 6.4 Additional Resources on Fish Care and Use
- 6.5 Fish Disease, Anesthesia, and Euthanasia Quiz

Module 7: Occupational Health and Safety in Aquatic Animal Facilities

- 7.1 Physical Hazards
- 7.2 Chemical Hazards
- 7.3 Biological Hazards
- 7.4 Occupational Health & Safety Quiz



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