

Contents

Editorial Board

v

Foreword

vii

Preface

xi

Section I: Animal Ecology

1. Sodium Fluoride Induced Toxicity in the Eggs and Larvae of *Drosophila melanogaster* 3
H.P. Garushankara, M. Shanthala and V. Vasudev
2. Does Predation Affect the Life Style of Freshwater Copepoda? 18
H.H. Mohammed, S.D. Salman and A.A.M. Abdullah
3. Integration of Botanicals and Microbial Pesticides for the Control of Dengue Vector, *Aedes aegypti* (Insecta : Diptera : Culicidae) 34
K. Murugan, A. Naresh Kumar, K. Kovendan,
K. Prasanna Kumar, Jiang-Shiou Hwang and
Donald R. Barnard

-
4. **Body Metric Variation in Populations of the Giant African Snail, *Achatina fulica* (Bowdich) from two Different Environ** 83
M. Jayashankar, M.S. Reddy, P. Marimuthu and Katre Shankuntala

 5. **Ionic Variability of Aquatic Environment and Osmoregulatory Adaptations in Teleost Fishes: An Ecological Perspective** 99
Iqbal Parwez and Subuhi Abidi

 6. **Ecotoxicological Risk Assessment of Pharmaceutical Effluent on Blood Chemistry Profiles of an Indian Major Carp, *Labeo rohita*** 136
Chokkalingam Kavitha, Mathan Ramesh, Annamalai Malarvizhi and Jayanthi Prabhu Naveena

 7. **Behavioural Alterations of Freshwater Airbreathing Teleost, *Channa punctatus* (Bloch) in Response to Heavy Metal Exposure** 154
Mohit Tiwari, N.S. Nagpure, D.N. Saksena and W.S. Lakra

 8. **Fisheries and Aquaculture in India—Dimension Towards Development: A Review** 163
Meenakshi Jindal and Kavita Sharma

 9. **A Critical Review on Certain Aspects of Anuran Integument** 187
Prahlad Dube

 10. **Human-Plants Interaction: A Case Study on Useful Plants of Dasigo Tribe from Mamberamo, Papua, Indonesia** 225
Agustina Y.S. Arobaya and Freddy Pattiselanno

 11. **Time Budget Activity Pattern of Behavioural Displays of Captive Axis Deer (*Axis axis*)** 233
Pradeep S. Khanpara and Kauresh D. Vachhrajani

 12. **Alleviation of Obesity Induced Oxidative Stress in Heart by Triphala** 251
B. Kalaivani and G. Vanithakumari

13. Study of Age Related Changes in the Activity of Some Metabolic Enzymes in <i>Cyprinus carpio</i> as Biomarkers <i>K.L. Jain, Meenakshi Jindal and Simmi</i>	265
14. Biopesticides-Its Prospects and Limitations: An Overview <i>Shahnawaz A. Dar, Z.H. Khan, Akhtar Ali Khan and Sheikh Bilal Ahmad</i>	296
15. Light Microscopic as well as Ultrastructural Changes in Adrenal Cortex of <i>Mus norvegicus</i> Induced by Sub-lethal Heroin Administration <i>Kaminidevi K. Bhoir, S.A. Suryawanshi and A.K. Pandey</i>	315
16. Effect of Neem Seed Alkaloid Extract on the Serum Levels of Sex Hormones and Pituitary Gonadotrophins in Male Albino Rats <i>V. Maruthappan, M. Ramesh and K. Sakthi Shree</i>	331
Section II: Animal Reproduction	
17. <i>Trypterygium wilfordii</i> : A New Hope for Male Contraception <i>Mukesh Kumar and N.K. Lohiya</i>	341
18. Mating Behaviour of Commercially Important Portunid Crab <i>Portunus pelagicus</i> (Linnaeus, 1758) <i>Anand, T. and P. Soundarapandian</i>	352
19. Leydig Cell Differentiation in Adult Amphibian (<i>Euphlyctis cyanophlyctis</i>) Testis <i>Katti Pancharatna</i>	364
20. Biochemical Changes in Ovary and Uterus of Mice After Exposure to Indoxacarb <i>T.Y. Mudaraddi and B.B. Kaliwal</i>	380
21. Ethno-Medicinal Use of Herbal Drugs for Enhancing Male Fertility <i>Pallavi Gupta, Amita Kanaujia and Poonam Singh</i>	401

22. Comparative Study on the Induced Spawning of <i>Clarias batrachus</i> Using Three Different Hormones Ovatide, Ovaprim and Pituitary Extract	414
<i>Kavita Sharma, Meenakshi Jindal and N.K. Yadava</i>	
23. Reproductive Potential of Freshwater Fish in Fluoride Contaminated Water	433
<i>Anand Kumar, Sandeep Bajpai, Nalini Tripathi and Madhu Tripathi</i>	
24. Sexual Selection and Mating Systems Across the Animal World: A Review	442
<i>Omkar and Geetanjali Mishra</i>	
Previous Volumes	499
Index	521