Preface

It is our great pleasure to present the book, *Fluoride Toxicity in Animals*. Animals living in areas where fluorosis is endemic in the human population invariably suffer from the toxic effects of excess fluoride intake. Nevertheless, there has been limited research on fluorosis in animals whereas fluorosis in the human population has received more attention from biologists, environmental scientists, and management authorities worldwide.

This book has been written for higher undergraduate and graduate students of toxicology, veterinary science, animal nutrition, environmental science, public health workers, animal welfare activists, public health veterinarians, medical professionals, and all others interested in the subject. A brief account of physical and chemical properties of fluorine and different fluoride compounds is given along with their relative significance in fluoride toxicity. Important natural and anthropogenic sources of fluoride toxicity in animals are described to help identify the problem. Basic features of fluoride absorption, distribution, metabolism, retention, excretion, and fluoride tolerance of different animal species are given in brief. Methods for sample collection, preservation, and fluoride analysis in biological and environmental samples are described. Important aspects of mitigation and prevention of fluorosis in animals are given in Chap. 7 to help animal health workers and management authorities.

No book can be claimed to be perfect and complete in all aspects. The scope of improvement is always left. We sincerely look forward to readers for critical suggestions.

We express our gratitude to our colleagues, officers, students, scientists, and teachers for their valuable support. Thanks to Dr. D. Swarup and Dr. R.C. Patra for providing the opportunity to work in the field of fluoride toxicity under their guidance.

In addition we want to thank Lars Koener, Ursula Gramm, Amit Cyril Tirkey and reviewers of the book for their support and suggestions in publishing this book in a nice shape.
We also express thanks to our parents, family members, and friends, as without their whole-hearted support it would have been impossible to complete this manuscript.

Rakesh Ranjan
Amita Ranjan
Fluoride Toxicity in Animals
Ranjan, R.; Ranjan, A.
2015, XI, 105 p. 6 illus. in color., Softcover
ISBN: 978-3-319-17511-9