

# Preface

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In the year 2016 Professor Ashish S. Verma received a call from Academic press office with a request to come up with the second edition of our book *Animal Biotechnology: Models in Discovery and Translation*. Soon he shared this information with me and both of us were thrilled and super excited as it had been just 3 years since the first edition was launched and we had never thought that we would be working on the second edition so soon. The challenge was to add, update, and revise the first edition because by that time both of us had moved to different places, I had joined Banaras Hindu University, Varanasi, India, and Prof. Verma became the acting Vice-Chancellor of Jadavpur University, Kolkata, India. Even though his unending administrative responsibilities kept him busy day and night still he had solutions to every problem that I could fathom in editing the next edition at that time. Ultimately we started working together on this edition by reviewing all the inputs and criticism we had received for the first edition, from students, instructors, teachers, and scientists.

We always felt that the field of Animal Biotechnology as such is well explored and is continuously evolving to come up as a full discipline very soon. Nevertheless, it is still difficult to find dedicated books on the subject, and at the same time books that can cater the needs of students, instructors, and teachers alike. The first edition of *Animal Biotechnology: Models in Discovery and Translation* was developed as a Resource Book as it would provide sufficient information and literature for instructors to teach the subjects while students will find ample information to gain a better insight of the topic. While working on the second edition, we have maintained the same pattern as before, in fact, the second edition includes substantial revision and update of the content and information while continuing with the easy-to-follow language and uniformity of the style and presentations which the first edition had. Considering the recent advancements in nanotechnology, enzyme technology, and ayurveda we strongly felt to have chapters that will help in having a view of Animal Biotechnology from these perspectives. As a result the second edition has entirely new chapters comprising of various aspects of nanotechnology, ayurveda, enzyme technology, euthanasia, CAM assays, and also some chapters dealing with newer models to study different human diseases.

Almost all the chapters from the first edition have been retained but they have been rigorously updated with the most recent information available with the

experts of the field. Moreover each chapter contains interesting information that is added as a Turning point, it's something which we hope that our readers will cherish while reading the topic of their interest. We have also added a sub-topic on Clinical Co-relation in each chapter so that readers who have an interest in the clinical aspect of different topics can find the relevant information in one place while developing the subject. Many sections have been rewritten for better clarity, understanding, fluency of style/presentation, and language. We have tried to develop each chapter in an individual manner so that readers who prefer to purchase individual chapters can find all the details related to the topic in the same chapter itself. We have tried our best for improvement of the figures and illustrations, some of these have been revised, few new figures have been added in each chapter and the figures from the last edition have been updated. Very similar to the first edition, each chapter has a subsection on the available internet resources that are related to the topic and a list of review articles and textbooks as further reading is also provided for those readers whose jet-speed curiosities need still more jet fuel.

While we were working on the second edition, Prof. Verma was taken away by the cruel hands of destiny on May 11, 2019, and his sudden, untimely demise left me completely shocked. Me and Prof. Verma had been working together since 2008 and I was devastated as this entire project was mid-way and from then on I would be editing the book single-handedly. At this point I must appreciate the kind gesture of the entire Academic Press team especially Mr. Peter Linsley (Senior Acquisitions Editor) and Mr. Timothy Bennett (Editorial Project Manager) who gave me support and showed trust in my capabilities. They generously extended the book timelines due to which this book could be completed in its present form.

Finally, I would like to request the readers of this book to extend their full support as they had extended for the previous edition. We are always open to criticism, suggestions, and recommendations that can be helpful to improve the contents and presentation of the book. Your suggestions/criticism will allow us to explore other aspects of Animal Biotechnology and in our future ventures and endeavors.

Late Ashish S. Verma  
and  
Anchal Singh