The authors and the publisher have exerted every effort to ensure that drug selection and dosage set forth in this text are in accord with current recommendations and practice at the time of publication. However, in view of ongoing research, changes in government regulations, and the constant flow of information relating to drug therapy and drug reactions, the reader is urged to check the package insert for each drug for any change in indications and dosage and for added warnings and precautions. This is particularly important when the recommended agent is a new and/or infrequently employed drug.

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Preface

The 5th International Workshop on Immune-Deficient Animals in Biomedical Research was held at the Vilvorde Conference Center, Copenhagen, Denmark, October 13-16, 1985.

Over the last 15 years, immune-deficient animal models have had an ever increasing impact on biomedical research, in basic immunology, in the study of mechanisms in infectious disease and autoimmune disease, and above all - in cancer research, where these animal models are widely used in both tumor biology studies, including the new area of oncogenes, and in cancer therapy studies.

The aim of the 5th Int. Workshop on Immune-Deficient Animals was to create a forum for the introduction of new ideas and exchange of experience in these areas. Again, the workshop was arranged under the auspices of the International Council for Laboratory Animal Science (ICLAS), to stress the close relationship to the field of experimental animals. This was also witnessed by the introduction of new immune-deficient models that comprise an increasing part of the animal kingdom - cattle and horses. So, now you can even ride to your laboratory on an immune-deficient model.
Still, the nude mouse and to some extent the nude rat seem to be the most popular models. Time will show if more profound deficiency models presented in this workshop will take over in future.

Two of the pioneers of nude mouse work died briefly before the workshop, Jørgen Fogh, New York, in December 1984, and Berenice Kindred, Tübingen, at the beginning of 1985.

Jørgen Fogh, a Danish MD with a lifetime career in New York, will be well known to all researchers in this field, for his extensive studies in tumor biology. The combination of his collection of cultured tumor cell lines and his nude mouse colony, so well run by his wife and coworker, Helle, led to a range of scientific contributions. Also his editorship, with Giovanella, of the two volumes of ‘The Nude Mouse in Experimental and Clinical Research’ has created landmarks in this field. In the autumn of 1984 he offered to arrange the 5th workshop in New York and was far advanced in his preparations when his time ran out.

Berenice Kindred, Australian biologist, spent her best years in Basel, at the Basel Institute for Immunology from its opening, and later in various scientific institutions in Western Germany. Her studies in T-cell differentiation in mice are outstanding, and her patient work during the first years of nude mouse research gave many of the clues that have led to later understanding. Berenice Kindred had an appetite to study nature, be it during trips to remote parts of the world or in the microworld of the immune system. Jørgen Fogh and Berenice Kindred will always be remembered for their contributions to science and for their warm and friendly personalities alike. It is the hope of the organizers that this volume, containing the proceedings of the workshop, will be met with the same interest and enthusiasm that prevailed during the meeting.

Jørgen Rygaard

Opening Remarks

Doctor Rygaard,
Members of the Organizing Committee,
Distinguished Participants!

On behalf of the Governing Board of ICLAS I have an honour and pleasure to participate with interest in the 5th International Workshop on Immune-Deficient Animals. I wish to express a great respect to the Organizing Committee, chaired by Dr. Jørgen Rygaard for the efforts to organize this
workshop at the beautiful Vilvorde Conference Center in Copenhagen. Over hundred participants, representing numerous laboratories almost all over the world will contribute to this workshop either presenting position papers, free communications and posters or during discussions. The surrounding unusually picturesque in autumn colors, and comfortable accommodation at the Vilvorde Conference Center offer suitable conditions for the purpose of this workshop.

The immunodeficient animals appeared to be a multipotential and powerful tool in various biomedical fields of research, to mention studies on tumor cell heterogeneity, mechanisms of the expression of malignant phenotype including process of metastases, sensitivity or resistance to various therapeutic agents tested in immunodeficient recipients of human heterotransplanted tumors and studies on various aspects of immune response and pathogenesis of autoimmune diseases.

Members of the Governing Board of ICLAS maintain their high estimation and recognition of the relevance of this unique animal model for human diseases, initiated by Professor Otto Mühlbock and stimulated by still actively engaged Professor Tatsuji Nomura.

Opening Remarks XIV

The preceding four workshops have played an important role in providing an appropriate development and application of immunodeficient animals in many research activities. I wish all contributors and participants of the fifth workshop to continue this important task by indicating the new avenues of application, following the current progress in new biotechnologies and new fields of biomedical studies.

I wish we all will experience a fascinating and successful workshop and pleasant meeting during the following three days together.

Thank you. Czeslaw Radzikowski, MD, PhD

Representative of ICLAS

Governing Board

5 th International Workshop on Immune-Deficient Animals in Biomedical Research

Copenhagen, October 13-16, 1985

International Planning Committee Local Organizing Committee

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