

Ocular Size and Shape

Ocular Size and Shape Regulation During Development

Edited by
S. Robert Hilfer and
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With 80 Figures



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The participants of the Fifth Symposium on Ocular and Visual Development dedicate this volume to the memory of

Jane Coulombre
and
Beatrice Garber.

During their lives these two investigators contributed significantly to developmental biology not only by their experimental discoveries but also by shaping the lives of those around them. In their laboratories and in their private lives, each of these women combined scientific incisiveness with enthusiasm and joy that was an inspiration to all. Their premature deaths leave unfillable gaps not only for those who knew them but also for those who will be denied the possibility of their influence.

Preface

The eye has fascinated scientists from the earliest days of biological investigation. The diversity of its parts and the precision of their interaction make it a favorite model system for a variety of developmental studies. The eye is a particularly valuable experimental system not only because its tissues provide examples of fundamental processes, but also because it is a prominent and easily accessible structure at very early embryonic ages.

In order to provide an open forum for investigators working on all aspects of ocular development, a series of symposia on ocular and visual development was initiated in 1973. A second purpose has been to foster communication between the basic research worker and the clinical community. It is our feeling that much can be learned on both sides from this interaction. The idea for an informal meeting allowing a maximum exchange of ideas originated with Dr. Leon Candeub, who supplied the necessary driving force that made the series a reality.

This volume arose from the papers presented at the Fifth Symposium on Ocular and Visual Development held in Philadelphia in June 1980. The major topic under discussion was the Regulation of Ocular Size and Shape during Development. The sessions were organized to cover three main subject areas: control of cell number, cellular shape changes, and membrane mediated phenomena. In addition, a clinical lecture on cataract surgery was presented. We wish to thank the participants for their part in making the meeting a success and for their contributions to this volume. We also wish to thank the reviewers of the manuscripts for their time and expertise.

The symposium could not have been held without the generous financial backing of the Temple University College of Liberal Arts and the Pennsyl-

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Philadelphia, Pennsylvania

S. Robert Hilfer
Joel B. Sheffield

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