

CONTENTS

	<i>Page</i>
FOREWORD	ix
by J. F. Delafresnaye	
PREFACE	xi
by Sir Stewart Duke-Elder	
THE PROBLEM OF CORNEAL TRANSPARENCY	1
by Sir Stewart Duke-Elder	
THE ANATOMY OF THE CORNEA	7
by Jules François and M. Rabaey	
THE EFFECT OF SWELLING ON THE STAINING REACTIONS OF THE CORNEA	17
by Norman Ashton	
MORPHOLOGICAL AND FUNCTIONAL DEVELOPMENT OF THE CORNEA	23
by George K. Smelser	
DISCUSSION	37
THE PHYSICS OF CORNEAL TRANSPARENCY	41
by David M. Maurice	
DISCUSSION	47
TURGESCE AND SWELLING PRESSURE	51
by K. van Walbeek	
DISCUSSION	62
THE PERMEABILITY OF THE CORNEA	67
by David M. Maurice	
DISCUSSION	70
TRANSPORT OF FLUID FROM THE CORNEA	73
by John E. Harris	
CORNEAL METABOLISM AND ITS INFLUENCE ON CORNEAL HYDRATION IN THE EXCISED EYE AND IN THE LIVING ANIMAL	87
by Maurice E. Langham	
DISCUSSION	104
HEALING PROCESSES IN THE CORNEA	111
by Virginia Weimar	

ROLE OF THE EPITHELIUM IN INCORPORATION OF SULPHATE IN THE CORNEAL CONNECTIVE TISSUE	125
by George K. Smelser	
DISCUSSION	127
CORNEAL VASCULARIZATION	131
by Norman Ashton	
DISCUSSION	140
SOME ASPECTS OF FAT IN DEGENERATION	149
by David G. Cogan	
I. KERATOPATHIES IN WHICH FAT IS A PROMINENT FEATURE	149
DISCUSSION	154
II. EXPERIMENTAL PRODUCTION OF FAT IN THE CORNEA .	155
DISCUSSION	158
III. RELATION OF FAT FORMATION IN THE CORNEA TO THAT IN OTHER TISSUES	159
DISCUSSION	162
PRIMARY CRYSTALLINE DEPOSITS IN THE CORNEA AND THEIR RELATION TO METABOLIC DISORDERS (CYSTINOSIS, DYSPROTEINAEMIA)	165
by A. Franceschetti	
DISCUSSION	169
METABOLISM OF THE CORNEAL GRAFT	171
by C.-H. Dohlman	
DISCUSSION	188
THE IMMUNE REACTION TO CORNEAL HOMOGRAFTS	193
by A. Edward Maumenee	
DISCUSSION	204
THE CLINICAL ASPECTS OF LOSS OF TRANSPARENCY IN LAMEL- LAR KERATOPLASTY	209
by Louis Paufigue	
THE TRANSPARENCY OF PERFORATING CORNEAL GRAFTS	221
by A. G. Leigh	
DISCUSSION	232
SCLERAL AUTOTRANSPLANTS INTO RABBIT'S CORNEA	237
by A. Franceschetti	
DISCUSSION	241
FINAL DISCUSSION	243
BIBLIOGRAPHY	253
INDEX	265