Contents

Introduction

Selected research topics	
Bronchodilator drugs in asthma	4
Stability of the lung	4
Auditory biophysics research	ŧ
Implantable hearing prosthesis	ç
The chemical synthesis of relaxin	1
Small blood vessels in the lining of the stomach	12
Epidemiology of arthropod-borne virus infections	14
Genetic markers and dengue virus strains	16
Hepatitis B virus and chronic liver disease Hepatitis B virus is one of a variety of viruses which may infect the liver and has been of particular interest to researchers at the University of Adelaide.	17
Hormone control of growth and function of cancers	18
Drug resistance in cancer Research into the properties of human melanoma cells is being conducted at the Queensland Institute of Medical Research.	20
Rhythm of breathing in the newborn	20
Scientific drug treatment of epilepsy	2
The mechanism of hardening of dental amalgam The way in which mercury reacts with alloy to form amalgam is being examined at the University of Adelaide.	2:

Research on cardiovascular disease	24	
Inborn errors of metabolism	25	
Appendixes		
i Appropriation to Medical Research Endowment Fund 1937–82 ii Summary of research projects supported in 1981 iii Development grants 1981 iv Program grants 1981 v Support for research institutes for 1981	27 28 70 71 72	
vi Support of research units, Fellows and special investigations in 1981 vii Medical and dental postgraduate research scholarships for 1981 viii Biomedical postgraduate scholarships for 1981 ix Australian and overseas post-doctoral fellowships for 1981	78 81 87	
x NH & MRC Research Associates in allergic diseases for 1981 xi Public health travelling fellowships for 1981 xii Medical research grants	89 94 95 96	