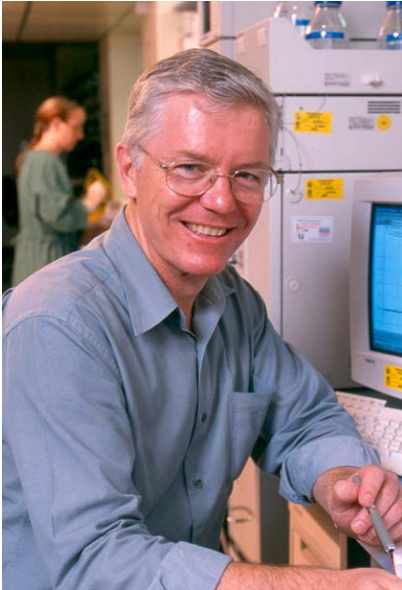


## Dr Graeme Suthers: The genetic basis of cancer



Dr Suthers is the head of the Familial Cancer Unit at the Women's and Children's hospital. He will begin the evening with an introduction to cancer and its different stages. He will focus on the role of genetic change in cancer progression. He will also discuss familial cancers including some breast, ovarian and colorectal cancers. He will be using props for visualisation of his ideas and to get the audience involved.

### **Current research**

#### **Familial Cancer Research Group**

The Familial Cancer Research Group is part of the Familial Cancer Unit. The Familial Cancer Unit is the genetic counselling arm of the State's Familial Cancer Service and provides genetic assessment, testing, counselling, and surveillance advice to people at increased genetic risk of developing cancer. The Research Group is involved in studies of the cause, epidemiology, impact, and prevention of familial cancer.

**kConFab.** This is a multi-centre of Australasian study of familial breast and ovarian cancer. Families with this disorder are recruited through familial cancer clinics. Demographic information, clinical details, and blood and tumour samples are collected from the families to provide a resource of biospecimens and data for use by researchers in Australasia and overseas. The South Australian node of this study is funded by the NHMRC and the Cancer Council South Australia. See <http://www.kconfab.org>

**Australian Colorectal Cancer Families Study:** This is a similar multi-centre study of familial bowel cancer. A resource of biospecimens and data is being collected from families with familial bowel cancer. This study is funded by the National Institute of health in the USA as part of an international research program. See <http://www.uq.net.au/~zzaccfs/>

**Australian Familial Haematological Cancer Study.** Leukaemia, lymphoma, and other haematological malignancies are usually sporadic and not familial disorders. However, there are some families with an underlying genetic predisposition to develop these types of cancer. This South Australian-based study is developing a resource of biospecimens and data from families with familial haematological cancers for use in genetic research. The Research Group is involved in a number of other smaller studies, usually in collaboration with researchers at other hospitals or universities.

## **Prof. Graeme Young: Strategies for prevention**



Professor Graeme Young joined the Department of Medicine on 1<sup>st</sup> August 1997 as the inaugural Professor of Gastroenterology. Prof. Young will focus on cancer prevention, particularly highlighting ways of blocking the process of colorectal cancer development. He will describe how cancer can be prevented through lifestyle choices such as diet and limiting exposure to sunlight. He will also discuss the latest in screening research.

### **About Graeme Young**

Graeme has had a most distinguished career. He obtained his FRACP in 1978 in gastroenterology and his MD in 1981 after two years as a U.S. National Institute of Health Fogarty International Research Fellow at the Division of Gastroenterology, Washington University Medical School, St Louis, Missouri. He returned to Australia and was subsequently Lecturer, Senior Lecturer and Associate Professor in the University of Melbourne Department of Medicine at the Royal Melbourne Hospital. During this time his active interest in teaching was maintained as supervisor of intern training (1987-1995) as well as an ongoing commitment to undergraduate teaching of medical students.

In 1995 he took up the Michell Professorship of Medicine in the Department of Medicine in the University of Adelaide at the Queen Elizabeth Hospital. In association with this, he was head of the Division of Medicine for the North West Adelaide Health Service incorporating the Queen Elizabeth Hospital and Lyell McEwin Health Services. He took over being head of the overall Department of Medicine throughout the University of Adelaide, incorporating all of the internal medicine undergraduate training in 1996.

In 1997, he joined Flinders University, Flinders Medical Centre, RGH and Noarlunga Health Services as a major national and international leader in academic

gastroenterology. His research is internationally recognised. He has had competitive research funding since 1978. His main areas of interests are in the epidemiology, prevention and molecular biology of colorectal cancer. He has over 130 journal articles, books, monographs, editorials and book chapters to his credit. His distinction in the academic community has been recognised by his participation in numerous NHMRC, Anti-Cancer Foundation, WHO and state committees.

Graeme's energy, enthusiasm, knowledge and skills have already been evident in the southern region with his establishment of colorectal cancer prevention services in the southern region, improvement of gastroenterology services and recruitment of talented researchers and clinicians. On a personal level, the description "gentleman" does not do Graeme justice. His fair, open, co-operative yet focused attitudes to clinical service provision, research and teaching act as a role model for all to follow.

## Prof. Villis Marshall: Treatment innovations



Prof. Marshall will provide highlight new innovative therapies for the treatment of cancer. Professor Marshall will be discussing his research on prostate cancer treatment including radiotherapy, new high frequency ultrasound techniques, vaccines and key-hole surgery techniques.

### **About Villis Marshall**

Prof Villis Raymond Marshall is an internationally recognized consultant in urology, educator and researcher. Following his surgical training and fellowship at the University of Adelaide, he held faculty appointments at the London Hospital Medical College, St Peters Hospital and Royal Adelaide Hospital before serving as chair of Flinders Medical Centre, Department of Urology for twenty five years. His present appointment is Clinical Director, Surgical Specialities Service in Royal Adelaide Hospital. Prof Villis Raymond Marshall has published over 300 articles. He is a distinguished fellow and past president of the Urological Society of Australasia. He has received over 50 research grants and numerous invited lectureships from around the world.

## Professor Shaun McColl : Cutting Edge Research



Professor of Immunology, School of Molecular & Biomedical Science, The University of Adelaide. Prof McColl will take you to the leading edge of basic research into understanding what makes a cancer develop. He will point to the new era of technology that has emerged since sequencing of the human genome. This research will unlock many of the secrets of cancer and will provide avenues for development of new cancer preventions and treatments in the future.

### **About Shaun McColl**

Professor Shaun McColl holds a Personal Chair in Immunology in the School of Molecular & Biomedical Science and is the Head of Chemokine Biology at the University of Adelaide. His research interests are focussed around understanding the pathobiology of cell migration.

Shaun conducted his Undergraduate and Doctoral studies at the University of Adelaide from 1977-1987. He was a Post-Doctoral Fellow at Laval University in Quebec from 1987-1989, and received an academic appointment as an Assistant Professor of Medicine at Laval University from 1989-1993. He then returned to Australia as a Research Fellow at the John Curtin School of Medical Research at ANU from 1993-1995 and took up a Faculty appointment at the University of Adelaide in 1995.

Shaun has published over 100 original research articles and reviews and book chapters on the molecular basis of the inflammatory response, including the role of adhesion molecules, bioactive lipids and chemotactic factors such as chemokines in inflammation and diseases including multiple sclerosis, rheumatoid arthritis and metastatic cancer. He has mentored numerous Ph.D. and Honours students both in Australia and Canada.