

Professor Barry HALLIWELL  
Tan Chin Tuan Centennial Professor  
With effect from July 2006

Senior Advisor, Academic Appointments and Research Excellence  
Office of the Senior Deputy President and Provost  
National University of Singapore

Chairman of the Biomedical Research Council (BMRC)  
A\*STAR



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Professor Barry Halliwell is Senior Advisor, Academic Appointments and Research Excellence, Office of the Senior Deputy President and Provost.

Professor Halliwell graduated from the University of Oxford with BA (1st class) and D.Phil degrees. He holds a D.Sc degree from the University of London. He was a faculty member with the University of London, King's College from 1974 to 2000 and held a prestigious Lister Institute Research fellowship. From 1995 to 1999, he was a Visiting Research Professor of Internal Medicine and Biochemistry with the University of California Davis, School of Medicine, Divisions of Cardiology and Pulmonary/Critical Care Medicine. Professor Halliwell was a Visiting Professor of Biochemistry to NUS from 1998 to 2000. He was Head of the University's Department of Biochemistry from 2000 to 2007 and was Deputy Director, Office of Life Sciences from 2001 to 2003. From 2003 to September 2008, he was Executive Director of the NUS Graduate School of Integrative Sciences and Engineering. From Mar 2006 to May 2015, he was the Deputy President (Research and Technology) at NUS. From Jun 2015 to May 2018, he was the Senior Advisor to the President at the National University of Singapore.

Professor Halliwell is a member of several editorial boards including FEBS Letters, Biochemical and Biophysical Research Communications and Antioxidants and Redox Signaling. He has been a lead speaker at Gordon Conferences and other prestigious events worldwide and is a member of several expert advisory panels to leading universities, companies and government agencies.

## Research

Understanding the molecular mechanisms of cell injury and death in human disease (especially cancer, neurodegeneration and cardiovascular disease) and in response to toxins. Antioxidants in nutrition, health and disease. Natural and synthetic antioxidants as therapeutic agents. Mechanism of ageing and age-related disease as studied using the *Caenorhabditis elegans* model and human ageing cohorts.

An internationally-acclaimed biochemist, Professor Halliwell is known especially for his seminal work on the role of free radicals and antioxidants in biological systems. The Thomson Reuters lists Professor Halliwell as one of the world's most highly-cited researchers in Biology and Biochemistry and his Hirsch Index is 153.

His book *Free Radicals in Biology and Medicine* published by Oxford University Press, and now in its fifth edition, is regarded worldwide as an authoritative text in the field. He has received numerous research awards, including Singapore President's Science and Technology Medal (2013), the "Lifetime Achievement Award" by the Society for Free Radical Biology and Medicine

in the USA for overall sustained excellence in the field and the Ken Bowman Research Award for outstanding achievements in the field of cardiovascular research from the Institute of Cardiovascular Sciences (Canada).

His research focuses on the role of free radicals and antioxidants in human disease, particularly Alzheimer's disease and other brain disorders. His interest in identifying the most important antioxidants in the human diet and in developing novel antioxidants has critical bearing on treating human diseases and understanding how diet might cause or prevent them.