Third KIA Laureate Fundamental Research



Researcher: Prof. Brett Anthony Neilan

Nationality: Australian

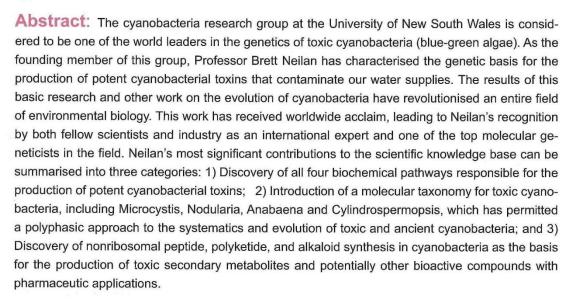
Date of birth: 1964

Position: Fellow of the Australian Research Council

Scientific affiliation: The University of New South Wales, Australia

Project title: The Molecular genetics of cyanobacterial toxinsoptoelectronic and sensing

applications



Biography: Prof. Brett Anthony Neilan is a Federation Fellow of the Australian Research Council, head of the University of New South Wales, Natural Products Research Laboratory and Deputy Director of the Australian Centre for Astrobiology. He received a Ph.D in 1995, from UNSW and has held postdoctoral positions at Stanford (NASA Fellow) and Humboldt University Berlin (Alexander von Humboldt Fellow). Since 1998, he has been a Fellow of the Australian Research Council. He is considered to be one of the world's leaders in the genetics of toxic cyanobacteria (blue-green algae). The results of his basic research and his other work on the evolution of cyanobacteria has revolutionised an entire field of environmental science. He is also engaged in "molecular bioprospecting", which has led him to study the secondary metabolism and evolution of unique microorganisms from extreme environments, such as Antarctica and the hypersaline coasts of Shark Bay in Western Australia. He has been awarded the Australian Academy of Science Fenner Medal in 2004 and the Eureka Prize for Scientific Research in 2001 and 2005. His work has been communicated in more than 170 peer-reviewed publications. Prof. Neilan has also consulted broadly to various governments regarding biotechnology and the environment.