



Prof Myburg het as Fulbright Scholar aan die North Carolina State University studeer waar hy in 2001 'n PhD in Bosbou en Genetika verwerf het. Hy is tans Professor in Genetika in die Fakulteit Natuur- en Landbouwetenskappe aan die Universiteit van Pretoria. Sy navorsing in FABI – die Instituut vir Bosbou en Landboubiotegnologie – is toegespits op die genomika en molekulêre genetika van houtontwikkeling en veral die genetiese regulering van die biosintese van sellulose in bome.

Sy laboratorium was die eerste om die sellulose-sintasegene (CesA) wat in Eukaliptusbome aktief is te isoleer en beskryf (Ranik & Myburg 2005), asook die regulerende DNS-volgordes wat die uitdrukking van dié gene beheer (Creux et al 2008). Meer onlangs het prof Myburg se navorsingspan die heel eerste atlas wat 'n geheelbeeld van die uitdrukking van die gene in 'n Eukaliptusboom gee (Mizrachi et al 2010) en 'n hoëdigtheid-genetiese kaart van die eukalyptgenoom (Kullan et al 2012) opgestel. Prof Myburg tree op as koördineerder van die internasionale Eucalyptus Genome Network (EUCAGEN) en is die Hoofnavorser van die Eucalyptus Genome Project van die Departement van Energie (DoE) van die VSA.

In 2007 ontvang hy die volgende toekennings: die British Association-silwermedalje van die Suider-Afrikaanse Genootskap vir die Bevordering van Wetenskap (S2A3) en die Presidensiële Toekenning vir Jong Navorsers van die NNS. In 2008 word hy deur die Universiteit van Pretoria erken as een van die 100 Denkleiers op die gebied van navorsing in die eerste eeu van die Universiteit se bestaan (1908-2008). Een van die onlangse belangrike publikasies waarvan prof Myburg mede-outeur was, sluit 'n artikel getitel: "High-density genetic linkage maps with over 2 400 sequence-anchored DArT markers for genetic dissection in an F2 pseudo-backcross of *Eucalyptus grandis* x *E. urophylla*" in wat gepubliseer is in *Tree Genetics and Genomes* 8:163–17 (6 September 2011, doi: 10.1007/s11295-011-0430-2). Prof Myburg het 'n B3-gradering van die NNS.

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Prof Myburg studied as a Fulbright Scholar at North Carolina State University and received a PhD in Forestry and Genetics in 2001. He is currently a Professor in Genetics in the Faculty of Natural and Agricultural Sciences at UP. His research programme in the Forestry and Agricultural Biotechnology Institute (FABI) focuses on the genomics and molecular genetics of wood development and, in particular, the genetic regulation of cellulose biosynthesis in trees.

His laboratory was the first to isolate and characterise the cellulose synthase (CesA) genes active in Eucalyptus trees (Ranik & Myburg, 2005), as well as the regulatory DNA sequences controlling the expression of these genes (Creux et al. 2008). More recently, Prof Myburg's research group produced the first whole-plant gene expression atlas of a Eucalyptus tree (Mizrachi et al 2010) and a high-density genetic map of the eucalypt genome (Kullan et al 2012). Prof Myburg is the coordinator of the international Eucalyptus Genome Network (EUCAGEN) and the Lead Investigator of the US Department of Energy (DoE) Eucalyptus Genome Project.

In 2007, he was awarded the Southern Africa Association for the Advancement of Science (S2A3) British Association Silver Medal and he received the National Research Foundation President's Award for Young Researchers. In 2008, he was recognised as one of the 100 Leading Minds in research of the past century (1908-2008) at the University of Pretoria. Prof Myburg's most important co-authored publications include: 'High-density genetic linkage maps with over 2 400 sequence-anchored DArT markers for genetic dissection in an F2 pseudo-backcross of *Eucalyptus grandis* x *E. urophylla*' published in *Tree Genetics and Genomes* 8:163–17 (6 September 2011, doi: 10.1007/s11295-011-0430-2). Prof Myburg has a B3-rating from the NRF.

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Prof Myburg o ithutile e le Moithuti wa Fulbright University of the North Carolina mo a hweditšego lengwalo la PhD ka tša Dithokgwa le Thutaleabela (*Forestry and Genetics*) ka 2001. Gabjale ke profesa ya thutaleabela Lefapheng la Thutamahlale a Tlhago le Temo mo UP. Lenaneo la gagwe la dinyakišišo ka Instištšhuting ya Theknolotšiphelo ya Temo le Dithokgwa (*Agricultural Biotechnology Institute: FAB*) le nepile thutaleabela le dikokwane tša leabela tša dimolekhule tša tlhabollo ya legong le, botsebotse, molao wa dikokwane tša leabela wa *cellulose biosynthesis* mehlareng. Laporathori ya gagwe e bile yona ya mathomo go kgaoganya le go farologanya ditsine tša *cellulose synthase* (CesA) tšeo di lego ka mehlareng ya Mepilikomo (Ranik le Mayburg 2005), gape le ka ditatelantšhong tša DNA tšeo di laolago tlhagišo ya ditsine (Creux le ba bangwe 2008).

Go tša moragorago, sehlopha sa Prof Myburg sa dinyakišišo se tšweleditše aklase ya mathomo ya tlhagišo ya tšine ya semela seo se feleletšego sa Mopilikomo (Mizrachi le ba bangwe 2010), le mmepe wa kitlano e ntši ya dikokwane tša leabela tša mopilikomo (Kullan le ba bangwe 2012). Prof Myburg ke mokgokaganyi wa *Eucalyptus Genome Network* (EUCAGEN) le monyakišiši yo a etilego pele Protšeke ya *Eucalyptus Genome* ya Kgoro ya Enetši ya Amerika.

Ka 2007 o ile a abelwa medale wa silibere wa *Southern Africa Association for the Advancement of Science (S2A3) British Association* gomme o amogetše le Sefoka sa Mopresidente wa Setheo sa Bosetšhaba sa Dinyakišišo (NRF) sa Bafatišiši ba bafsa. Ka 2008 o ile a lemogwa bjalo ka yo mongwe wa Dikgopolo tša Dihlalefi ka dinyakišišong ba ngwagakgolo wo o fetilego (1908-2008) University of Pretoria. Diphatalatšo tše bohlokwahlokwa tša Prof Myburg di akaretša tšeo di latelago: High-density genetic linkage maps with over 2 400 sequenc-anhored DArT markers for genetic dissection in an F2 pseudo-backcross of *Eucalyptus grandis* x *E. urophylla*. *Tree Genetics and Genomes* 8:163-17 (6 Lewedi 2011, doi: 10.1007/s11295-011-0430-2).