



Prof Erasmus is Medeprofessor in die Departement Vee- en Wildkunde in die Fakulteit Natuur- en Landbouwetenskappe. In die vroeë jare van sy loopbaan, terwyl hy in diens van die Landbounavorsingsraad (LNR) was, het prof Erasmus hom toegelê op die verbetering van die doeltreffendheid van proteïen- en aminosuurbenuutting in melkkoeie. Hy het daarin geslaag om duidelik te toon dat die aminosuurprofiel van die duodenale digesta in melkkoeie betekenisvol gemanipuleer kan word deur die versigtige keuse van voerbronne en die selektiewe gebruik van aminosure wat teen rumendegradasie beskerm is.

Meer onlangs het die klem van sy navorsing verskuif na die gebruik van voerbymiddels om rumenfermentasie te manipuleer en die doeltreffende gebruik van herkouer-diëte te verbeter. Hy was een van die eerste navorsers wat die vermoë van gisprodukte getoon het om die duodenale voorsiening van metionien in melkkoeie betekenisvol te verhoog en het ook aangetoon dat *monensin*, 'n antimikrobiële ionofoor wat saam met *virginiamycin* gebruik word, 'n komplementêre uitwerking het. In 'n onlangse studie met voerkraalbeeste het hy gevind dat natuurlike voerbymiddels, soos essensiële olies, antibiotiese ionofore in voerkraal-diëte suksesvol kan vervang, wat in verbruikers se vraag na antibiotika-vrye vleis kan voldoen.

Prof Erasmus se navorsing is in 41 portuurbeoordeelde vaktydskrifte gepubliseer. Hy het die LNR-medalje vir uitnemende navorsing, die Silwerpenning van die Suid-Afrikaanse Vereniging vir Veekunde en die Barney van Niekerk-toekenning vir betekenisvolle navorsingsbydraes tot die veevoerbedryf ontvang.

Prof Erasmus glo in internasionale samewerking en het onlangs 'n sabbatsjaar aan die Universiteit van Sassari in Italië deurgebring en 'n reeks lesings in Uruguay gelewer. Hy is as natuurwetenskaplike by die Suid-Afrikaanse Raad vir die Natuurwetenskaplike Professies (SACNASP) geregistreer en is lid van die Suid-Afrikaanse Vereniging vir Veekunde, die American Dairy Science Association en die American Registry of Professional Animal Scientists. Hy het 'n C2-gradering van die NNS.

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Prof Erasmus is an Associate Professor in the Department of Animal and Wildlife Studies in the Faculty of Natural and Agricultural Sciences. During the early part of his career, while at the Agricultural Research Council (ARC), Prof Erasmus focused on improving the efficiency of protein and amino acid utilisation in dairy cows. He clearly demonstrated that the duodenal amino acid profile can be significantly manipulated through careful selection of feedstuffs and selective use of rumen-protected amino acids.

Lately the emphasis of his research has shifted to the use of feed additives to manipulate rumen fermentation and improve efficiency of feed utilisation. He was one of the first researchers to demonstrate the ability of yeast products to significantly increase duodenal methionine supply in dairy cows and also that *monensin*, an antimicrobial ionophore, together with *virginiamycin*, has complementary effects. In a recent study with feedlot cattle, he found that natural feed additives, such as essential oils, can successfully replace antibiotic ionophores in cattle diets, thereby satisfying consumer demands for antibiotic-free meat.

Prof Erasmus's research has been published in 41 peer-reviewed journals. He has received the ARC Medal for Exceptional Research, the Silver Medal from the South African Society of Animal Science and the Barney van Niekerk Award for Significant Research Contributions to the Feed Industry.

Prof Erasmus believes in international cooperation and recently returned from a sabbatical at the University of Sassari in Italy and a lecture series in Uruguay. He is a registered natural scientist with the South African Council for Natural Scientific Professions (SACNASP), member of the South African Society of Animal Science, the American Dairy Science Association, and the American Registry of Professional Animal Scientists. He has a C2-rating from the NRF.

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Prof Erasmus ke Motlatšapofesa Kgorong ya Dithuto tša Diphoofole le Bophelošokeng ka Lefapheng la Thutamahlale a Tlhago le Temo. Nakong ya karolo ya mathomo ya mošomo wa gagwe a sa le Khanseleng ya Dinyakišišo tša Temo (ARC), Prof Erasmus o bea nepo ya gagwe mo go kaonafatšeng phethagalo ya proteini le tšhomišong ya diamino esiti dikgomong tša maswi. O laeditše gabotse gore profaele ya diamino esiti tša ka maleng di ka fetošwafetošwa ka tsela e bohlokwa ka kgetho ka tlhokomelo ya furu le tlhaolo ka tlhokomelo ya tšhomišo ya diamino esiti tšeo di šireleditšwego kgahlanong le mogodu.

Moragonyana mo kgatelelo ya dinyakišišo tša gagwe e šutile go ya go tšhomišo ya ditlaleletši tša difuru go fetošafetoša tšhilo ya dijo mogodung le go kaonafatša phethagalo ya tšhomišo ya furu. O bile yo mongwe wa banyakišiši ba mathomo go laetša bokgoni bja ditšweletšwa tša pidiša go oketša ka boati kabo ya methonaene maleng mo dikgomong tša maswi gape le gore *monensin*, ayonforo ya sebolayatwatši, mmogo le selwaletwatši sa *virginiamycin*, di na le ditlamorago tša go retega. Mo dithutong tšeo di sa tšwago dirwa ka ga dikgomo tša moo go bewago diphoofole tšeo di tlogo hlabja, o hweditše gore dioketši tša furu ya tlhago, bjalo ka dioli tšeo di hlokegago di ka bewa sebakeng sa diayonforo tša dibolayatwatši ka phepong ya dikgomo, gomme ka go realo di kgotsofatša dinyakwa tša bareki ka maswi a go hloka dibolayaditwatši.

Dinyakišišo tša Prof Erasmus di phatlaladitšwe ka ditšenaleng tše 41 tša go sekasekwa ke ba mphato wa gagwe dithutong. O amogetše medale wa *ARC Medal for Exceptional Research*, medale wa silibere go tswa go *South African Society for Animal Science* le sefoka sa *Barney van Niekerk for Significant Research Contributions* go Intasteri ya Furu. Prof Erasmus o dumela mo go tšhomišano ya boditšhabatšhaba gomme o sa tšwa go boa ketelong ya thuto (sabatshikale) University of Sassari go la Italy le molokolokong wa dithuto go la Uruguay. Ke ramahlale wa tša tlhago yo a ingwadišitšego le *South African Council for Natural Scientific Professions (SACNASP)*, leloko la *South African Society of Animal Health*, *American Dairy Science Association*, le *American Registry of Professional Animal Scientists*.