

## Prof Anita Michel

BVSc (Germany) DVM (Germany) PhD (Utrecht)

**Professor: Bacteriology**



### **Current subjects**

Bovine tuberculosis  
Zoonoses  
Wildlife/livestock/human interface

### **Research interests**

Diagnostics  
Molecular epidemiology  
Quality assurance

### **Academic and professional experience**

20 years experience as researcher and laboratory diagnostician  
7 years experience as research programme manager  
6 years experience as technical manager of ISO 17025 accredited laboratories

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Paraclinical Building

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### **Research output/publications**

42 publications in peer-reviewed journals  
1 book chapter  
61 congress proceedings  
1 keynote address  
2 FAO expert consultations

### **Academic and professional memberships**

Member of the South African Veterinary Council  
Member of the Southern African Society for Veterinary Epidemiology and Preventive Medicine  
Member (Treasurer) of the Organising Committee of the 12th International Symposium of Veterinary Epidemiology and Economics in Durban, South Africa, 9 – 14 August 2009

### **NRF rating**

B2

### **Awards and recognition**

The Agricultural Research Council President's Award for important contributions to the advancement of diagnostic services  
Research Associate of the National Zoological Gardens of South Africa

## **Research interests**

Following the diagnosis of bovine tuberculosis in wildlife in the Kruger National Park over 20 years ago, a number of research questions and opportunities emerged which paved the way to a series of field- as well as laboratory-based studies. Those related mostly to the epidemiology, diagnosis and control of this disease in wildlife but also in livestock. Among the highlights are the unravelling of the BTB epidemic in the Kruger National Park from its introduction to its spread across the Limpopo river.

Current projects focus, apart from continued studies of wildlife tuberculosis (Tiny Hlokwe, Angela Brüns, Nozipho Khumalo), on the role and significance of BTB at the wildlife/livestock/human interface in South Africa (Jolly Musoke, Cisky Molefe) and further afield in Zimbabwe (Tapiwanashe Hanyire), Eritrea (Michael Kaysay) and soon also in Botswana. More recently a need has been identified to conduct epidemiological investigations on bovine brucellosis in cattle (Bongekile Ndwandwe) as well as in African buffaloes (Jacoba Dongo).

Immune responses to *M. bovis* are often difficult to interpret using standard diagnostic tests. In our recent studies, in collaboration with the Utrecht University, we have gained interesting new insights in the role non-tuberculous Mycobacteria (Noma Gcebe, Akin Jenkins) can play in host immune response to mycobacteria.

## **Publications**

Click [here](#) to view a list of publications.