
BIOGRAPHICAL SKETCH (April 23, 2017)

NAME Krecek, Rosina Claudia		POSITION TITLE Research Professor of Global One Health	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education</i>)			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Florida, Florida, USA	BS	1972	Animal Science
East Texas State University, Texas, USA	MS	1975	Zoology
University of Pretoria, Pretoria, South Africa	PhD	1984	Zoology
University of Witwatersrand, South Africa	MAP	1999	Business Administration
Gordon Institute of Business Science, South Africa	MBA	2003	Business Administration

A. Personal Statement

With more than 30 years international experience at building sustainable One Health research, education and outreach programs in Africa, the Caribbean and the USA, my focus has been a collaborative and interdisciplinary approach for diagnosis and interventions to prevent and manage zoonotic parasitic and infectious diseases which impact resource-poor communities. I established a successful international agricultural consultancy in Sub-Saharan Africa, which addresses societal issues through novel One Health solutions. Two of my overall strengths are establishing international sustainable strategic partnerships, and leading teams to successfully achieve their goals.

In 2005, I was recruited as Associate Dean for Research, and Professor of Parasitology at Ross University School of Veterinary Medicine on St. Kitts to create a research program which was completely lacking. I established and led a credible and sustainable research program with a One Health focus endorsed by all global, international, national, regional, and island stakeholders (i.e., World Association for Animal Health (OIE), World Health Organization (WHO), Food and Agriculture Organization (FAO), Centers for Disease Control and Prevention (CDC), etc.) Under my research and administrative leadership Ross established a One Health research program with several “firsts”: a Memorandum of Understanding signed between St. Kitts-Nevis Ministries of Agriculture and Human Health and Ross, which strengthened partnerships across diverse disciplines; developed a strategic plan and attracted comprehensive institutional funding to build research and animal facilities, develop operating policies and attract research faculty to support the One Health approach; established the Ross graduate program which was awarded accreditation from the St. Kitts-Nevis Ministry of Education; and awarded funding for the Ross Merit Veterinary Scholars Program. In 2011, as a result of this 6-year strategic effort, Ross achieved accreditation by the American Veterinary Medical Association Council on Education (AVMA COE) and was awarded a full 7-year accreditation, becoming the first veterinary school in the Caribbean and the 5th foreign school to achieve this global benchmark.

Leading strategic partnerships and working critically in team efforts are proven strengths, as evidenced by the awarding of a 2015 U.S. Department of Homeland Security contract for a novel collaborative multidisciplinary training program. This “Bench to Shop” program (<http://vetmed.tamu.edu/benchtoshop>) develops an international curriculum for next generation scientists to take bench discoveries for high consequence transboundary diseases to commercialization.

Significant achievements during my tenure as Interim Assistant Dean of One Health at Texas A&M from 2015-2017 advanced the One Health initiative to the next level (<http://onehealth.tamu.edu>). Examples were 3 grant awards for the establishment of new interdisciplinary programs (e.g., comparative genomics of agricultural, animal, human pests and microbes; porcine cysticercosis biosafety and biosecurity international capacity training initiatives collaborating in 21 countries, etc.). A critical process has been to compile performance metrics for campus-wide One Health research, demonstrating positive outcomes in various research, education and outreach programs.

It is with great pride and even more enthusiasm and energy that I bring an international proven track record demonstrating the abilities to build, galvanize and sustain international strategic relationships in education, training and research programs.

B. Positions and Honors

Positions and Employment

2017	Research Professor of Global One Health, Texas A&M University (TAMU), College Station, Texas, USA
2015-2017	Interim Assistant Dean of One Health, College of Veterinary Medicine & Biomedical Sciences (CVM), (TAMU), College Station, Texas, USA
2013-2017	Visiting Professor, Veterinary Pathobiology, CVM, TAMU, College Station, Texas, USA (http://vetmed.tamu.edu/vtpb/people/departmental-faculty)
2005-2013	Associate Dean of Research and Professor of Parasitology, Ross University School of Veterinary Medicine (RUSVM), St. Kitts, West Indies
2009-2014	Adjunct Associate Professor, School of Public Health, University of Minnesota, USA
2003-present	Visiting Professor, Department of Zoology, University of Johannesburg, South Africa (https://www.uj.ac.za/faculties/science/zoology/Pages/Visiting-Academics.aspx)
1979-2002	Promoted through five positions to tenured Professor (from Research Assistant, Researcher, Senior Lecturer, Associate Professor) Department of Veterinary Tropical Diseases, (DVTD) Faculty of Veterinary Science (FVS), University of Pretoria (UP), Onderstepoort, South Africa
1994-present	One Health Community development and training programs in animal and human disease interventions in developing agriculture systems: Sub-Saharan Africa (e.g., Ethiopia, Kenya, Namibia, Mozambique, South Africa, Tanzania, Zambia, Zimbabwe)/ Department for International Development (DFID)/ Food and Agriculture Organization (FAO)/ Danish International Development Agency (DANIDA)/ United States Agency for International Development (USAID)/ Swedish International Development Cooperation Agency (SIDA)/ British Council Link (BC Link)/ Pan American Health Organization (PAHO)/ World Health Organization (WHO)/ United States Department of Homeland Security (DHS).

Honors and Awards

1997-present	Co-Founder and Chair, World Association for the Advancement of Veterinary Parasitology (WAAVP) African Foundation
2013	DeVry "Bringing Home the Gold" Service Excellence Recognition, USA
2005-present	Assessment Panel and Reviewer for NRF Improved Quality of Life Programme; Environmental Programme Evaluation and University Development Programme; Peer Review Evaluation of Research, South Africa
2008	DeVry Ross University Ron Taylor Award, USA
2002-2003	National Project Coordinator for Food and Agriculture Organization (FAO) Technical Cooperation Programme, South Africa
2001	Eldson-Dew Medal for Service to Parasitology in Africa, Parasitological Society of Southern Africa (PARSA), Africa
1999-2003	President of World Association for the Advancement of Veterinary Parasitology (WAAVP) (only woman to date to hold this position)
1998	Agricultural Science and Technology Woman of the Year, South Africa
1993-1996	President of PARSA, Africa
1994	Smith-Kline Beecham Lecturer of the Year, FVS, UP, South Africa

Professional Memberships

2006-present	European Veterinary Parasitology College (Associate Member)
2000-present	Royal Society of South Africa (Elected as a Fellow in 2003)
1998-present	South African Veterinary Association (Honorary Member)
1980-present	World Association for the Advancement for Veterinary Parasitology

C. Publications (Selection below from a total of 136 peer reviewed publications in scientific journals; plus 76 additional publications e.g., book chapters, textbooks, theses and non-refereed publications, etc.)

<http://www.ncbi.nlm.nih.gov/myncbi/browse/collection/49613179/?sort=date&direction=ascending>

- 1) Guo, F., Forde, M.S., Werre, S.R., **Krecek, R.C.** and Zhu, G.. 2016. Sero-prevalence of Five Parasitic Pathogens in Pregnant Women in Ten Caribbean Countries. *Parasitology Research* 116(1): 347-358. doi: 10.1007/s00436-016-5297-6.
Adetunji, S.A., **Krecek, R.C.**, Castellanos, G., Morrill, J.C., Blue-McLendon, A., Cook, W.E. and Esteve-Gassent, M.D. 2016. Seroprevalence of *Borrelia burgdorferi* Antibodies in White-Tailed Deer from Texas. *International Journal for Parasitology: Parasites and Wildlife*: 5(2): 168-174. DOI: 10.1016/j.ijppaw.2016.06.002
- 2) Steward, D.A., **Krecek, R.C.**, Chaddock, H.M., Green, J.M. and Conti, L.A. 2016. The contribution of biomedical informatics to one health. *Journal of the American Veterinary Medical Association*. March 15, Vol. 248(6): 604-605 doi: 10.2460/javma.248.6.604.
- 3) Dubey, J., Aubert, D., Villena, I., Geers, R., Elise, Kumar, S. and **Krecek, R.C.** 2016. Toxoplasmosis in Caribbean islands: Literature review, seroprevalence in pregnant women in ten countries, isolation of viable *Toxoplasma gondii* from dogs from St. Kitts, West Indies with report of new *T. gondii* genetic types. *Parasitology Research* Apr; 115(4): 1627-34. doi: 10.1007/s00436-015-4900-6. Epub 2016 Jan 14.
- 4) Mohammed, Hamish, Evanson, Jessica, Revan, Floyd, Lee, Elise, **Krecek, Rosina Claudia** and Smith, Joshua. 2015. A mosquito survey of the Twin-island Caribbean Nation of Saint Kitts and Nevis, 2010. 15-6494. *Journal of the American Mosquito Control Association* 31: 360-363,. doi: <http://dx.doi.org/10.2987/moco-31-04-360-363.1>
- 5) **Krecek, R.C.**, Chaddock, M., Holub, M., Bush, R.L., Sullivan, S.J. and Green, E.M. 2015. Texas A&M University's New Roads Into One Health. *Journal of the American Veterinary Medical Association*, April 1, 2015, Vol. 246, 7: 727-730, doi: 10.2460/javma.246.7.727
- 6) Wood, H. Drebot, M.A., Loftis, A., Lee, E., Robertson, L., Dimitrova, K., Makowski, K., Dillon, L., Dewailly, E., Morrison, K. and **Krecek, R.C.** 2014. Seroprevalence of seven zoonotic pathogens in pregnant women from the Caribbean. *American Journal of Tropical Medicine and Hygiene* 91:642-644.
- 7) **Krecek, R.C.**, Mohammed, H., Michael, L.M., Schantz, P.M., Ntanjana, L. Morey, L., Werre, S.R. and Willingham, A.L. 2012. Risk factors of porcine cysticercosis in the Eastern Cape Province, South Africa. *PLOS One* 7: e37718. doi:10.1371/journal.pone.0037718
- 8) Foyaca-Sibat, H., Cowan, L.D., Carabin, H., Targonska, I., Anwary, M.A., Serrano-Ocaña, G., **Krecek, R.C.** and Willingham III, A.L. 2009. Accuracy of serological testing for the diagnosis of prevalent neurocysticercosis in outpatients with epilepsy, Eastern Cape Province, South Africa. *PLOS Neglected Tropical Diseases* 3: e562. doi:10.1371/journal.pntd.0000562.
- 9) Dubey, J.P. Moura, L., Majumdar, D., Sundar, G., Velmurugan V., Kwok, O.C.H., Kelly, P. and **Krecek, R.C.** and Su, C. 2009. Isolation and characterization of viable *Toxoplasma gondii* isolates revealed possible high frequency of mixed infection in feral cats (*Felis domesticus*) from St. Kitts, West Indies. *Parasitology* 136: 589-594.
- 10) **Krecek, R.C.**, Michael, L.M., Schantz, P.M., Ntanjana, L. Smith, M.F., Dorny, P., Harrison, L.J.S, Grimm, F., Praet, N. and Willingham, A.L. 2008. Prevalence of *Taenia solium* cysticercosis in swine from a community-based study in 21 villages of the Eastern Cape Province, South Africa. *Veterinary Parasitology* 154: 38-47.
- 11) Carabin, H., **Krecek, R.C.**, Cowan, L.D., Michael, L., Foyaca-Sibat, H., Nash, T. and Willingham, A.L. 2006. Estimation of the cost of *Taenia solium* cysticercosis in the Eastern Cape, South Africa. *Tropical Medicine and International Health* 11: 906-916.
- 12) **Krecek, R.C.** and Waller, P.J. 2006. Towards the implementation of the “basket of options” approach to helminth parasite control of livestock: emphasis on the tropics/subtropics. *Veterinary Parasitology* 139: 270-282.
- 13) Phiri, I., Ngowi, H., Afonso, S. Matenga, E., Boa, M., Mukaratirwa, S., Githigia, S., Saimo, M., Sikasunge, C., Maingi, N., Lubega, G., Kassuku, A., Michael, L., Siziya, S., **Krecek, R.**, Noormahomed, E., Vilhena, M. and Willingham, L. 2003. The emergence of *Taenia solium* Cysticercosis in Eastern and Southern Africa as a serious agricultural problem and public health risk. *Acta Tropica* 87: 13-23.

D. Research Funding Support

Total funding received to date US\$ 22,235,144; (Current funding US\$ 2,317,351; Previous funding US\$ 4,194,959; Former institutional funding US\$ 15,722,834). Pending funding US\$ 4,683,197

Current

- Global Alliance for Livestock Veterinary Medicines (GALVmed) Krecek (PI) 2016-2017
Evaluation of integrated One Health approaches to control of taeniasis/ cysticercosis and porcine cysticercosis control tools in Sub-Saharan Africa. US\$ 52,925
- US Department of Homeland Security Krecek (Co-PI) 2015-2018
From the Bench to the Shop: Creation and Implementation of a Scientific Business Development and Management Program to Transition High Consequence Livestock Disease Research and Development Technologies for Commercialization (<http://vetmed.tamu.edu/benchtoshop>)
Co-PIs: R.C. Krecek, H. Simmons, PI: A. Arenas Funding: US\$ 1,309,553
- US Department of Agriculture Foreign Agricultural Service Krecek (Co-PI) 2016-2018
Less Risk More Value: Enhancing Biosecurity Best Practices of Livestock Diseases in South Africa (EBSA)
Co-PIs: R.C. Krecek, H. Simmons, L.L. Logan, PI: A. Arenas Funding: US\$ 473,989
- World Association for the Advancement of Veterinary Parasitology (WAAVP) African Foundation Travel Scholarships Krecek (Chairperson and Co-Founder) 1997-present
Goal: award next generation African research parasitologist scientists travel scholarships to participate in the WAAVP International Conferences and present research findings. Funding: US\$ 230,000

Previous

- USAID. SRS1440045: Feed the Future Innovation Lab for Livestock. Poverty Reduction Through Innovative Tick Control for West Africa.
Goal: reduce poverty and increase productivity of livestock pastoralists in West Africa through innovative tick and tick borne disease control. Krecek (Co-PI) Funding: US\$ 146,892
- IDRC Project Number: 103460-062 Krecek (Research Collaborator) 2009-2016
Caribbean Eco-Health Program: Public and Environmental Health Interactions in Food and Water-Borne Illnesses.
Goal: build capacity, effectively translate and transfer knowledge technology skills to public and environmental health professional workers in Caribbean Community (CARICOM) region. These zoonotic infection studies are a first in the Caribbean undertaken at the community level. Funding: US\$ 1,365,535

Completed Research Support

- NIH Fogarty Grant Krecek (Collaborator) 2009-2012
Modification of HIV-associated CNS diseases by parasitic zoonoses in the Eastern Cape Province, South Africa (NIH-FIC).
Goal: identify central nervous system diseases in humans linked to parasitic diseases. Funding: US\$ 250,000
- USAID in South Africa Krecek (PI) 2003-2005
Potential use of indigenous plants in treatment of zoonotic helminth diseases.
Goal: catalogued indigenous plants for treatment of zoonotic helminth diseases and to establish linkages with interested biotechnological entities. Funding: US\$ 184,000
- USAID in South Africa Krecek (PI) 2002-2008
An epidemiological study on porcine cysticercosis in emerging farming areas in South Africa.
Goal: determined the epidemiology of *Taenia solium* in pigs in the Eastern Cape Province, South Africa. Funding: US\$ 141,000

Institutional Funding

- Ross University of Veterinary Medicine (RUSVM), St. Kitts Krecek (Associate Dean of Research) 2003-2012
Goal: lead, start-up and develop research program. I attracted US\$ 7,722,834 from both RUSVM and external grants. With Dean for Faculty recruited faculty who complemented One Health focus areas of the research strategic plan. Internal funding budget for these hires was an additional US\$ 8,000,000. Total US\$ 15,722,834