

Research Centers in Minority Institutions (UTSA)  
Institute for Integration of Medicine and Science (UTHSCSA) &  
UTSA-UTHSCSA Joint Graduate Program in Biomedical Engineering  
invite you to attend

## Seminars in Translational Research

*"Building the Capacity for Translational Research"*

### **Ruth Ruprecht, MD, PhD**

Texas Biomedical Research Institute  
Scientist, Department of Virology & Immunology  
Southwest National Primate Research Center  
Director, Texas Biomed AIDS Research Program

## **Defense-in-depth against Mucosal HIV transmission**

Although approximately 90% of all HIV transmissions in humans occur through mucosal contact, the induction of mucosal anti-HIV immune responses has remained understudied. I will summarize data demonstrating the powerful protection that is achievable at mucosal frontlines through virus-specific mucosal IgA alone or combined with IgG. Our passive immunization studies in nonhuman primate/primate immunodeficiency virus models have given the first proof-of-concept for a new protective mechanism against HIV: immune exclusion.

Active vaccine strategies designed to induce mucosal IgA and systemic/mucosal IgG responses have given promising data. Unanswered questions remain regarding the interplay between mucosal IgA and other host immune defenses, including their induction with immunogens by active vaccination. Our recently funded Program Project is designed to address such issues.

**Friday, February 17, 2017**

**9:00—10:00 AM**

**The University of Texas Health Science Center at San Antonio  
Greehey Children's Cancer Research Institute  
Room 2.160**

For more information contact Cindy Russel, Institute for Integration of Medicine and Science  
STRECH@uthscsa.edu • 210-562-4010 • <http://utsa.edu/crts/strech/>

**UTSA RCMi**  
Research Centers in Minority Institutions

 **UT Health**  
San Antonio  
Institute for Integration  
of Medicine & Science