

## Professor Gyanu Lamichhane



Professor Lamichhane is Associate Professor in the Division of Infectious Diseases at John Hopkins University, USA. His primary interest lies in the genes essential for growth of mycobacteria in vivo and in vitro. These genes likely code for proteins with essential function.

Professor Lamichhane's group have created a library of transposon insertion mutants of *M. tuberculosis* Oshkosh CDC1551 strain and directly identified non-essential genes. These genes, when inactivated by transposon insertion did not compromise the growth of the bacillus in vitro. Currently, they are trying to find genes whose functions are required for survival and growth in vivo in the mouse model of tuberculosis. These genes would be rational targets for new anti-tuberculosis drugs. Or, when these genes are modified, the resulting strains are likely to be attenuated in growth and virulence. This phenotype would be suitable for studying vaccine development.

In the future Professor Lamichhane intends to study the mechanism of cell division and the regulation of cell cycle in *Mycobacteria*.

**Professor Sabiha Essack**  
**Dean: School of Health Sciences**  
**College of Health Sciences**

cordially invites you to a

**PUBLIC LECTURE**

By

**Professor Gyanu Lamichhane (John Hopkins University)**

on

**“The pathway for biosynthesis of peptidoglycan layer as a target for development of inhibitors. Who will develop them?”**

**Date**

Thursday, 5 July 2012

**Time**

12:30-13:30

**Venue**

Penthouse, Block-F, Level 6  
Westville Campus