

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.
Follow the sample format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME V.D.Ramanathan	POSITION TITLE Scientist F		
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Madras Medical College, Chennai Institute of Basic Medical Sciences, University of London, London, UK.	MBBS PhD	1967-73 1977-80	Medicine & Surgery Immunology (Immunopathology)

A. Research and/or Professional Experience

Research Associate, Research Officer and Senior Officer April 1980 - July 1987 - Central JALMA Institute for Leprosy, Taj Ganj, Agra.

Senior Research Officer, Assistant Director, Deputy Director and Scientist F - July 1987 till date - Tuberculosis Research Centre, Chetpet, Chennai.

Honours

B. Selected Publications (Last 5 years)

Ramandeep Singh, Vivek Rao, H. Shakila, Radhika Gupta, Aparna Khera, Neeraj Dhar, Amit Singh, Anil Koul, Yogendra Singh, M. Naseema, P.R. Narayanan, C. N. Paramasivan, V.D. Ramanathan, Anil K. Tyagi. Disruption of *mptpB* impairs the ability of *Mycobacterium tuberculosis* to survive in guinea pigs. *Molecular Microbiology*; 2003; **50**:751-62.

V Malhotra, D Sharma, VD Ramanathan, H Shakila, T Das, S Chakravorty, D Saini, Q Li, R Silver, PR Narayanan, J Tyagi. Disruption of response regulator gene, *devR*, leads to attenuation in virulence of *Mycobacterium tuberculosis*. *FEMS Microbiology Letters*; 2004; **231**: 237-45.

Rao V, Dhar N, Shakila H, Singh R, Khera A, Jain R, Naseema M, Paramasivan CN, Narayanan PR, Ramanathan VD, Tyagi AK. Increased expression of *Mycobacterium tuberculosis* 19 kDa lipoprotein obliterates the protective efficacy of BCG by polarizing host immune responses to the Th2 subtype. *Scand J Immunol*. 2005 May;61(5):410-7.

Singh A, Gupta R, Vishwakarma RA, Narayanan PR, Paramasivan CN, Ramanathan VD, Tyagi AK. Requirement of the *mymA* operon for appropriate cell wall ultrastructure and persistence of *Mycobacterium tuberculosis* in the spleens of guinea pigs. *J Bacteriol*. 2005 Jun;187(12):4173-86.

Khera A, Singh R, Shakila H, Rao V, Dhar N, Narayanan PR, Parmasivan CN, Ramanathan VD, Tyagi AK. Elicitation of efficient, protective immune responses by using DNA vaccines against tuberculosis. *Vaccine*. 2005 Dec 1;23(48-49):5655-65.

Umopathy KC, Begum R, Ravichandran G, Rahman F, Paramasivan CN, Ramanathan VD. Comprehensive findings on clinical, bacteriological, histopathological and therapeutic aspects of cutaneous tuberculosis. *Trop Med Int Health*. 2006 Oct;11(10):1521-8.

Sharma D, Bose A, Shakila H, Das TK, Tyagi JS, Ramanathan VD. Expression of mycobacterial cell division protein, FtsZ, and dormancy proteins, DevR and Acr, within lung granulomas throughout guinea pig infection. FEMS Immunol Med Microbiol. 2006 Dec;48(3):329-36.

P. Senbagavalli, S.T. Geetha, K. Karunakaran, V.V. Banu Rekha, P. Venkatesan, V.D. Ramanathan, Reduced erythrocyte CR1 levels in patients with pulmonary tuberculosis is an acquired phenomenon. Clinical Immunology (2008) In Press.

C. Book Chapter

D. Ongoing Research Support

Involved in a) investigating the role of complement in tuberculosis (with Intra mural support), b) contributing to the development of newer anti tuberculous and HIV vaccines in collaboration with the Universities of Delhi (South Campus) and Madurai, respectively (with grants from the Department of Biotechnology) and c) Phase I HIV vaccine trial (sponsored by the International AIDS Vaccine Initiative).