

## BIOGRAPHICAL SKETCH

NAME <b>Dr D. Sulochana</b>		POSITION TITLE <b>Scientist D</b> <b>Dept of Immunology</b>	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of Madras, Chennai	Ph.D.	1981	Biochemistry
University of Madras, Chennai	M.Phil.	1979	Biochemistry
Marathwada University, Aurangabad	M.Sc.	1976	Biochemistry

### A. Research and/or Professional Experience

- Immune response in tuberculosis. Th1/Th2 paradigm in TB Pleuritis.
- Chemokines and their cognate receptors in tuberculous immunity
- Human monocyte / macrophage apoptosis and tuberculous Immunity.
- Role of Neutrophils and Dendritic cells in innate immunity of tuberculosis.
- DNA fingerprinting of *M. tuberculosis* bacilli.
- Drug Efflux and its molecular mechanisms.

### Honours

- The paper entitled "Cell proliferation and Apoptosis in tuberculosis". Deepa S and Sulochana D presented at 26<sup>th</sup> Indian Immunology Society meeting at Mumbai during Jan 13-15, 2000 received the first Best poster presentation award.
- The paper entitled "In-vivo study on dual signal hypothesis of apoptosis using mycobacterial antigens", Aravindhan V and Sulochana D presented at "International symposium on recent advances in Molecular Biology, Allergy and Immunology held at Vadodara during 4-5<sup>th</sup> September, 2000 received the best poster presentation award.
- Awarded Fellowship under British ODA/TCTP program at National Institute for Medical Research (NIMR), Mill Hill, LONDON, U.K. during 1990-1991.
- Awarded fellowship under British ODA/TCTP Program at NIMR, LONDON during April '96 – Sept. '96.

## **Membership on Committees**

- Indian Immunology Society (Life Member).
- Society of Immunology and Immunopathology
- On the Panel of Reviewers of manuscripts for the journal “ Mediators of Inflammation”
- External examiner for up gradation of ICMR & CSIR Fellowship of Ph.D. students
- Member of the Doctoral committee for Ph. D students

## **B. Selected Publications**

1. Expression of CXC and CC type of chemokines and its receptors in tuberculous and non-tuberculous effusions  
Supriya Pokkali, **Sulochana D. Das**, Logamurthy R  
**Cytokine (2008) In press** –Online available
2. TLR2 and TLR4 expression on the immune cells of tuberculous pleural fluid  
Prabha C, Rajashree P and **Sulochana D. Das**  
**Immunology Letters (2007) In press**- Online available
3. A correlation between phagocytosis and apoptosis in THP-1 cells infected with prevalent strains of Mycobacterium tuberculosis.  
Priya Rajavelu and **Sulochana D. Das**.  
**Microbiol Immunol. 2007;51(2):201-10.**
4. Th2-type immune response observed in healthy individuals to sonicate antigen prepared from the most prevalent Mycobacterium tuberculosis strain with single copy of IS6110.  
Priya Rajavelu, **Sulochana D. Das**  
**FEMS Immunology and Medical Microbiology 2005; 45: 95-102**
5. Impact of Tuberculosis on Serum Leptin Levels in Patients with HIV Infection.  
C. Prabha , S. Karthic, **Sulochana D. Das** , S. Swaminathan, S. Subramaniam,  
B. Sukumar  
**Horm Res 2005; 63:228–23**
6. **Special Report in “The Lancet’s tsunamis coverage” My introduction to the tsunami:**  
**Sulochana D. Das** and Lalitha Hari.  
**The Lancet, 2005; 365: 202.**
7. Differentiation of highly prevalent IS6110 single copy strains of Mycobacterium tuberculosis from a rural community in South India with an ongoing dots programme.  
**Sulochana D. Das**, Sujatha Narayanan, LalithaHari, S.L.Hoti R.K.Thangathurai  
Niruparani Charles, Jaggarajamma K and P.R.Narayanan.  
**Infection, Genetics and Evolution—2005; 5: 67-77.**
8. Cell proliferation and apoptosis: dual-signal hypothesis tested in tuberculous pleuritis using mycobacterial antigens.  
**Sulochana D. Das**, Deepa Subramanian, C. Prabha  
**FEMS Immunology and Medical Microbiology, 2004; 41: 85–92.**
9. Correlates of protective immune response in tuberculous pleuritis  
Kripa V. Jalapathy, C. Prabha, **Sulochana D. Das**  
**FEMS Immunology and Medical Microbiology, 2004; 40:139-145.**

10. Cell-Mediated Immune Responses of Healthy Laboratory Volunteers to Sonicate Antigens Prepared from the Most Prevalent Strains of *Mycobacterium tuberculosis* from South India Harboring a Single Copy of IS6110  
Priya Rajavelu and **Sulochana D. Das**  
**Clinical and diagnostic laboratory immunology, 2003; 10 (6): 1149–1152**
11. Molecular Epidemiology of Tuberculosis in a high Prevalence rural area South India: Implications for control.  
Sujatha Narayanan, **Sulochana Das**, Renu Garg, Lalitha Hari, Vijay Bhaskara Rao, Thomas R. Frieden, PR Narayanan  
**J. Clin. Micro.2002; 40(12): 4785-4788**
12. IS6110 restriction fragment length polymorphism typing of clinical isolates of *Mycobacterium tuberculosis* from patients with pulmonary tuberculosis in Madras, South India.  
**S D Das**, C N Paramasivan, D B Lowrie, R Prabhakar and P R Narayanan.  
**Tubercle and Lung Disease, 1995; 76: 550-554.**
13. The pattern of mycobacterial antigen recognition in sera from Mantoux-negative individuals is essentially unaffected by bacilli Calmette-Guerian (BCG) vaccination in either South India or London.  
**S D Das**, S H Cheng, D B Lowrie, K B Walker, D A Mitchison, R S Vallishayee and P R Narayanan.  
**Clin Exp Immunol, 1992; 89: 402-405.**
14. Human tuberculosis sera show prominent antibody responses to particulate fractions of *Mycobacterium tuberculosis*.  
**Sulochana D. Das**, Sujatha Narayanan, C N Paramasivan, D B Lowrie and P R Narayanan.  
**Journal of Clinical Immunology, 1991; 11(2): 74-77.**

### **C. Research Support**

#### **1. INDO-US (2003-2008)**

**Title:** The Role of B7 Class of Co-Stimulatory Molecules in CD95-Mediated Th1 Apoptosis During Tuberculous Infection, and its effect on disease susceptibility.

**Name and address of the PI(s) and Co-Investigator (s):**

1. **Dr. Padmini Salgame** - Associate Prof.- PI

Division of Infectious Diseases, Department of Medicine,

University of Medicine and Dentistry New Jersey,

New Jersey Medical School, U.S.A

2. **Dr Sulochana Das** M.Sc, Ph.D,-Co-Investigator

Assistant Director, Dept of Immunology

**Source of funding:** RO3 Grant, National Institutes of Health, US Department of Health and Human Services, USA

## **2. INDO-GERMAN (2003-2008)**

**Title:** Efflux mediated drug resistance in *M.tuberculosis*.

**Name and address of the PI(s) and Co-Investigator (s):**

1. **Dr Sulochana Das** M.Sc, Ph.D –Principal Investigator  
Assistant Director, Dept of Immunology
2. **PD Dr. med. Hans-Jörg Linde**, Assistant Professor, Institute for Medical  
Microbiology, University of Regensburg, Regensburg, Germany.

**Source of funding:**

This project is funded under “**DAAD Ph.D Sandwich fellowship programme**”