

**PART VII: PRO FORMA FOR BIO-DATA OF PRINCIPAL
INVESTIGATOR(S)**

(A)

Name: Satish Devadas
 Designation: Scientist D
 Department/Institute/University: Infectious Disease
 Biology, Institute of Life Sciences, Bhubaneswar, Orissa-
 751023.
 Date of Birth: 12th Nov 1967 Sex (M/F): Male
 SC/ST: N.A.



Education (Post-Graduation onwards & Professional
 Career)

No.	Institution/Place	Degree	Year	Field of Study
1.	CLRI, University of Madras, Madras-600 020, TN	Ph D	1999	Biochemistry/Biotechnology
2.	PGIBMS, University of Madras Madras-600 020, TN	M. Phil	1992	Endocrinology
3.	JIPMER, Pondicherry, Pondicherry-605001	M. Sc	1991	Medical Biochemistry

A. Position and Honors

No.	Institution/ Place	Position	From (Date)	To (date)
1.	Institute of Life Sciences, Bhubaneswar, Orissa	Scientist D	Sep 2007	To date
2.	UMDNJ, Piscataway, New Jersey, USA	Research Teaching Specialist	Dec 2001	Aug 2007
3.	American Red Cross, Rockville, Maryland, USA	Post Doctoral fellow	Oct 1998	Oct 2001

Honors/Awards

1994-98: Senior Research Fellowship by the Council for Scientific and Industrial
 Research (CSIR) in India

1992-94: Junior Research Fellowship, CSIR.

1997: Fellowship by CLRI and CSIR to 17th International Congress of Biochemistry
 and Molecular Biology at San Francisco, California, USA, Aug. 24-29, 1997.

Membership in Professional Society

Life Member, Indian Immunology Society, India

Life Member, The Cytometry Society, India

Member, Society of Biological Chemists, India

Professional Experience and Training relevant to the Project

T cell apoptosis, Reactive Oxygen and nitrogen species detection, Flow cytometry detection of apoptosis, multiplexing.

Seminar / Workshop Organized

Organizing Secretary: Annual Meeting of Indian Immunology Society, held at ILS, Bhubaneswar, from December 12-14, 2008.

Joint Secretary: 2nd Annual meeting of The Cytometry Society-India, Meeting at Bhubaneswar, from February 14-15, 2009.

Joint Secretary: 10th Indo US flow cytometry workshop, held at ILS, Bhubaneswar, from February 16-20, 2009.

Selected peer-reviewed publications (Ten best publications in chronological order)

Swaims A, Lin HC, Simon P, Granier C, Zhang Y, Arthur Roberts AI, **Devadas S**, Shi Y, Rabson AB. Activation of HTLV-1 expression in chronically-infected CD4⁺ T cells: mechanisms and implications for pathogenesis. *Retrovirology*. 2011; 8(Suppl 1): A6. Published online 2011 June 6. doi: 10.1186/1742-4690-8-S1-A6

Swaims A, Khani F, Zhang Y, Roberts AI, **Devadas S**, Shi Y, Rabson AB. Immune activation induces immortalization of HTLV-1 LTR-Tax transgenic CD4⁺ T cells. *Blood*. 2010 October 21; 116(16): 2994–3003. Prepublished online 2010 July 15. doi: 10.1182/blood-2009-07-231050.

Swaims A, Granier C, Khani F, Zhang Y, Roberts AI, **Devadas S**, Shi Y, Rabson AB. Modeling HTLV-lymphomagenesis: immune activation induces immortalization and leukemogenicity of HTLV-1 LTR-Tax transgenic CD4⁺T-cells. *Retrovirology*. 2009; 6(Suppl 2): P73. Published online 2009 September 24. doi: 10.1186/1742-4690-6-S2-P73

Devadas S, Das J, Liu C, Zhang L, Roberts A, Pan Z, Moore P, Das G, Shi Y. Granzyme B is critical for T cell receptor-induced cell death of type 2 helper T cells. *Immunity*. 2006 Aug; 25(2): 237-47.

Shi Y, Liu CH, Roberts AI, Das J, Xu G, Ren G, Zhang Y, Zhang L, Yuan ZR, Tan HS, Das G, Devadas S. Granulocyte-macrophage colony-stimulating factor (GM-CSF) and T-cell responses: what we do and don't know. *Cell Res*. 2006 Feb; (2):126-33.

Devadas S*, Jackson SH, Jaeyul Kwon, Ligia Pinto and Mark S. Williams (*Co-first author). T cells express an NAD(P)H oxidase that contributes to TcR stimulated generation of reactive oxygen species. *Nature Immunology* Aug 2004 5(8):818-27.

Devadas S, Hinshaw JA, Zaritskaya L, Williams MS. Fas-stimulated generation of reactive oxygen species or exogenous oxidative stress sensitize cells to Fas-mediated apoptosis. *Free Radic Biol Med*. 2003 Sep 15; 35(6): 648-61.

Kwon J, Devadas S, Williams MS. T cell receptor-stimulated generation of hydrogen peroxide inhibits MEK-ERK activation and I κ B serine phosphorylation. *Free Radic Biol Med*. 2003 Aug 15; 35(4): 406-17.

Zhang XR, Zhang LY, Devadas S, Li L, Keegan AD, Shi YF. Reciprocal expression of TRAIL and CD95L in Th1 and Th2 cells: role of apoptosis in T helper subset differentiation. *Cell Death Differ*. 2003 Feb; 10(2):203-10.

Devadas S, Greenelch KM, Yin D, Allan Mufson R, Zhou JN. Stressed to death: implication of lymphocyte apoptosis for Psychoneuroimmunology. Shi Y. Brain Behav Immun. 2003 Feb;17 Suppl 1:S18-26.

Roberts AI, Devadas S, Zhang X, Zhang L, Keegan A, Greenelch K, Solomon J, Wei L, Das J, Sun E, Liu C, Yuan Z, Zhou JN, Shi Y. The role of activation-induced cell death in the differentiation of T-helper-cell subsets. Immunol Res. 2003; 28(3):285-93.

Devadas S, Luba Zaritskaya, Sue Goo Rhee, Larry Oberley and Mark S. Williams. Discrete Generation of Superoxide and Hydrogen Peroxide by T-Cell Receptor Stimulation Selective Regulation of Mitogen-Activated Protein Kinase Activation and Fas Ligand Expression. J Exp Med 2002 Jan 7; 195 (1):59-70.

Book Publication:

Shi, YF, Devadas, S, Zhang, XR, Zhang, LY, Keegan, A, Greenelch, K, Solomon, JC, Yuan, ZR, Sun, EW, Liu, C, Das, J, Thayyil-Satish, M, Wei, LX, Zhou, JN and Roberts, A. Activation-Induced Cell Death and T Helper Subset Differentiation. In Shi, Y. F., Cidlowski, J., Scott, D. W. and Shi, Y. B. (Eds.) Molecular Mechanisms of Programmed Cell Death. Kluwer Academic/Plenum Publishers, New York 2003.

Shi YF, Liu CH, Roberts AI, Das J, Xu G, Ren G, Zhang Y, Zhang L, Yuan ZR, Tan HS, Das G, Devadas S. Granulocyte-macrophage colony-stimulating factor (GM-CSF) and T-cell responses: what we do and don't know. Interferons and cytokines. Shanghai Scientific & Technical Publishers. 2007.

Ongoing Research Project

Aberrant T cells and immune response in chronic infections/diseases, DBT, Govt. of India: 82 lakhs: 15 Sep 2009: 2009-2012

Cytotoxic T cell AICD and immune response DBT, Govt. of India: 50 lakhs: 15 Sep 2010: 2010-2013.

