

## Scientist Profile

1. **Name:** Dr. Luke Elizabeth Hanna
2. **Designation:** Scientist 'C'
3. **Date of Birth:** 14<sup>th</sup> May 1971
4. **Date of Joining:** 1<sup>st</sup> August 1994
5. **Date of joining present post:** 1<sup>st</sup> September 2008
6. **Discipline:** HIV/AIDS
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12. **Educational Qualifications:** M.Sc., Ph.D.
13. **Research Experience:** 17 years
14. **Membership/Fellowship of Professional Societies/Associations:** Nil
15. **Workshops/Conferences/Symposiums:**

### **A. Workshops Conducted**

1. 'Perspectives of Biomedical Informatics' at TRC, Chennai. June 22, 2008.
2. 'Informatics in Medicine' at TRC, Chennai. September 22, 2008.
3. 'Computational Resources for Drug Discovery' at TRC, Chennai. November 24-26, 2008.
4. 'Introduction to Bioinformatics' at TRC, Chennai. June 12, 2009.
5. 'Online Medical Resources' at TRC, Chennai. June 17, 2009.
6. 'Computer Aided Drug Designing' at TRC, Chennai. May 11-12, 2010.
7. 'Perspectives of Bioinformatics' at TRC, Chennai. June 11, 2010.

### **B. Conferences/Seminars/Workshops Participated**

1. Workshop on 'EQAS and ART' at Bangkok. December 11-14, 2007.

2. Workshop on 'Early Infant Diagnosis by DNA PCR' at NARI, Pune. August 30-September 4.
3. National Seminar on 'Application of PCR techniques in the diagnosis of infectious diseases' at Karpaga Vinayaga College of Engineering and Technology, Madhuranthakam. March 11-12, 2010.
4. Workshop on 'Drug Resistance' at NARI, Pune. March 19-20, 2010.
5. Bi-regional Asia Pacific Workshop on 'HIV Drug Resistance Genotyping' at Ho Chi Minh City, Vietnam. May 25-28, 2010.
6. International Conference on 'Translational Research in HIV/AIDS in India' at Goa. Jan 13-14, 2011.

16. **Awards:**

17. **Miscellaneous:**

18. **Publications:**

1. Mahanty S, **Luke HE**, Kumaraswami V, Narayanan PR, Vijayashekar V and Nutman TB. Stage-specific induction of cytokines regulates the immune response in lymphatic filariasis. **Experimental Parasitology**, 1996, Nov; 86 (2):282-290.
2. Gopinath R, **Hanna LE**, Kumaraswami V, Kavitha V, Vijayashekar V and Nutman TB. Long-term persistence of cellular hypo-responsiveness to filarial antigens after clearance of microfilaremia. **American Journal of Tropical Medicine and Hygiene**, 1999, May; 60 (5):848-853.
3. Swaminathan S, Gong J, Samten B, **Hanna LE**, Narayanan PR and Barnes PF. Cytokine Production in children with tuberculosis infection and disease. **Clinical Infectious Diseases** 1999; 28: 1290-3.
4. Swaminathan S, Nandini KS, **Hanna LE**, Somu N, Narayanan PR and Barnes PF. Lymphocyte Subsets in children with tuberculosis. **Indian Pediatrics** 2000; 37: 489-495.
5. Swaminathan S, **Hanna LE**, Alamelu Raja, Sankaran K and N Arun Kumar. Age-related changes in blood lymphocyte subsets of South Indian children. **National Medical Journal of India** 2003; 16:249-252.
6. Subramanyam S, **Hanna LE**, Venkatesan P, Narayanan PR and Swaminathan S. HIV Alters Plasma and *M. tuberculosis*-induced Cytokine production in patients with tuberculosis. **Journal of Interferon & Cytokine Research** 2004; 24: 101-106.
7. **Hanna LE**, Bose JC, Nayak K, Subramanyam S, Swaminathan S. Short communication: Influence of active tuberculosis on chemokine and chemokine receptor expression in HIV-infected persons. **AIDS Res Hum Retroviruses** 2005; 21(12): 997-1002.

8. Padmapriyadarsini C, Chandrabose J, Victor L, **Hanna LE**, Swaminathan S, Kumar A, et al. Hepatitis B and C coinfection in HIV infected individuals and effect of antituberculosis drugs on their liver functions. **J Postgrad Med** 2006; 52: 92-96.
9. Swaminathan S, **Hanna LE**, Sundaramurthi JC, Leonard A, Angayarkanni B, Francis AC, Lakshmi S and Nayak K. Prevalence and pattern of cross-reacting antibodies to HIV in patients with tuberculosis. **AIDS Res Hum Retroviruses** 2008; 24(7):941-6.
10. Swaminathan S, Antony L, Venkatesan P, **Hanna LE**, Angayarkanni B, Ponnuraja C, Robin J, Precilla KL and Ramachandran R. Sensitivity and specificity of combination testing algorithms for human immunodeficiency virus (HIV) in a tuberculosis clinic. **Indian J Med Res.** 2009; 128(6):772-4.
11. **Hanna LE**, Nayak K, Subramanyam S, Venkatesan P, Narayanan PR and Swaminathan S. Incomplete immunological recovery following six months of anti-tuberculosis treatment in HIV patients co-infected with *Mycobacterium tuberculosis*. **Indian J Med Res** 2009, 129: pp 548-554.
12. Rajesh L, Ramesh K, **Hanna LE**, Narayanan PR and Swaminthan S. Emergence of drug resistant mutations after single dose nevirapine exposure in HIV-1 infected pregnant women in South India. **Indian J Med Res** 2010, 132(5):509-512.
13. Hassan S, Logambiga P, Raman AM, Subazini TK, Kumaraswami V and **Hanna LE**. MtbSD – A comprehensive structural database for *Mycobacterium tuberculosis*. **Tuberculosis** (2011), doi:10.1016/j.tube.2011.08.003
14. Sundaramurthi JC, Ramanandan P, Brindha S, Subashree CR, Prasad A, Kumaraswami V and **Hanna LE**. DDTRP – Database of Drug Targets for Resistant Pathogens. **Bioinformatics**, 2011, 7(2):98-101.
15. Sundaramurthi JC, Brindha S, Reddy TB and **Hanna LE**. "Informatics Resources for Tuberculosis – towards drug discovery". **Tuberculosis** (2011), doi:10.1016/j.tube.2011.08.006.