

CURRICULUM VITAE

LIEM D. NGUYEN



PERSONAL DATA

First name: LIEM

Middle name: DUY

Family name: NGUYEN

Sex: male

Date of Birth: 10-06-1973

Place of Birth: Saigon, Vietnam

Nationality: Vietnamese

Status: married (2 children)

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EDUCATION

1991-1995, B.Sc., Biochemistry

HochiMinh City University
HochiMinh City, Vietnam

1998-2001, Ph.D., Microbiology

Institute of Microbiology, Academy of Sciences of The Czech Republic
Prague, Czech Republic

2001-2004, Postdoc, Microbiology

Division of Molecular Microbiology - Charles Thompson Group
Biozentrum
University of Basel
Basel, Switzerland

Research interests:

- Differentiation and antibiotic production in *Streptomyces*
- Antibiotic resistance in Actinomycetes
- Cell biology of Mycobacteria
- Virulence factors of Mycobacteria
- Host-mycobacterium interactions

EXPERIENCE

Molecular genetics, Proteomics, Cellular Microbiology and Cell Biology of *Streptomyces* and Mycobacteria

EMPLOYMENT

1995-1998: Teaching and research assistant, Biochemistry
Department of Biochemistry, Biology Faculty
HochiMinh City University
HochiMinh City
Vietnam

2001-2004: Teaching and research associate, Microbiology
Division of Molecular Microbiology
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2005-now: Research Associate
Department of Microbiology and Immunology
University of British Columbia
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FOREIGN LANGUAGE: English

AWARDS:

1998-1999-2000-2001: UNESCO-ROSTE fellowships of the long-term postgraduate course "On Modern Problems in Biology and Microbial Technology" sponsored by UNESCO

July 9-25, 1999: Summer Workshop in Microbial Physiology, Athens, G.A, USA

Traveling grant for young fellows in European Meeting on Elongation Factors, Sept 25-28, 1999, Kemer, Antalya, Turkey

2005, SwissTB Award 2005 for the best Tuberculosis Research Work, granted by The Swiss Foundation for Tuberculosis Research.
(<http://www.swisstb.org/laureate/index.html#2005>)

INVITED TALKS*

1. **Nguyen LD.** Size and charge heterogeneity of EF-Tu population in *Streptomyces*. European Meeting on Elongation Factors, Sept 25-28, 1999, Kemer, Antalya, Turkey
2. **Nguyen L.** Intrinsic Multi-Drug Resistance in *Mycobacterium* and *Streptomyces* Requires an Actinomycete-Specific Gene. "Biology of Streptomycetes and related Actinomycetes, Munster, Feb 27 - Mar 3, 2003, Munster, Germany
3. **Nguyen L.** A novel target to overcome the multidrug resistance of *Mycobacterium tuberculosis*. Biozentrum Symposium 2004. St. Chrischona, Oct 14, 2004

4. **Nguyen L**, Antibiotic Resistance in Pathogenic Mycobacteria. BioValley Biosciences Week: BioValley College Day. Basel. Oct 19-22, 2004.
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PUBLICATIONS

1. Kofronova O, **Nguyen LD**, Weiser J, Benada O. Streptomycetes cultured on glass beads: Sample preparation for SEM. *Microsc.Res.Tech.* 2002 Jul 15; 58(2): 111-3
 2. **Nguyen LD**, Cajthamlova K, Nguyen HT, Weiser J, Holubova I, Weiserova M. Identification of the EcoKI and EcoR124I Type I restriction-modification enzyme subunits by non-equilibrium pH gradient two-dimensional gel electrophoresis. *Folia Microbiol (Praha)*. 2002; 47(6): 641-8
 3. Thompson CJ, Fink D, **Nguyen LD**. Principles of microbial alchemy: insights from the *Streptomyces coelicolor* genome sequence. *Genome Biol.* 2002 Jun 26; 3(7): Review
 4. Nguyen KT, Willey JM, **Nguyen LD**, Nguyen LT, Viollier PH, Thompson CJ. A central regulator of morphological differentiation in the multicellular bacterium *Streptomyces coelicolor*. *Mol Microbiol.* 2002 Dec; 46(5): 1223-38
 5. Nguyen KT, Tenor J, Stettler H, Nguyen LT, **Nguyen LD** and Thompson CJ. Colonial differentiation in *Streptomyces coelicolor* depends on translation of a specific codon within the *adpA* gene. *J Bacteriol.* 2003 Dec; 185(24): 7291-6
 6. * Walburger A, * Koul A, * Ferrari G, * **Nguyen L**, Prescianotto-Baschong C, Huygen K, Klebl B, Thompson C, Bacher G and Pieters J. Protein Kinase G from Pathogenic Mycobacteria Promotes Survival Within Macrophages. *Science.* 2004 Jun; 304(5678): 1800-4.
(* equal contributors)
 7. **Nguyen LD**, Kalachová L, Novotná J, Martin Holub, Kofronová O, Benada O, Thompson CJ and Weiser J. A cultivation system using glass beads immersed in a liquid medium facilitates studies of *Streptomyces* differentiation. *Appl. Environ. Microbiol.* In Press.
 8. **Nguyen L.** and Pieters J. The Trojan horse: survival tactics of pathogenic mycobacteria in macrophages. Review. *Trends in Cell Biology.* In Press.
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MANUSCRIPTS IN PROGRESS

1. **Nguyen L.**, Anne Walburger, Anil Koul, Giorgio Ferrari and Jean Pieters. Role of Protein Kinase G in Growth and Glutamine Metabolism of *Mycobacterium bovis* BCG. Revising for acceptance to J Bacteriol.
2. Morris RP, **Nguyen L.**, Nguyen KT, Gatfield J, Pieters J, Schoolnik GK, and Thompson CJ. Ancestral intrinsic multi-drug resistance in *Mycobacterium* Submitted to PNAS
3. **Nguyen L.**, Chinnapapagari SKR, and Thompson CJ. FbpA dependent biosynthesis of Trehalose dimycolate is required for intrinsic multiple antibiotic resistance, cell wall structure and colonial morphology of *Mycobacterium smegmatis*. (Submitted to Molecular Microbiology)
4. **Nguyen L.**, Gatfield J, Sauder U, Pieters J, and Thompson CJ. Mycobacterial antigen 84 is required for polar growth and determination of cellular morphology (Manuscript prepared for Molecular Microbiology)
5. **Nguyen L.**, Durr S. and Thompson CJ. The Iron-sulfur cluster and AT-hook DNA binding motif are required for WhiB7 Multidrug Resistance (Manuscript prepared for Journal of Bacteriology)