

## CURRICULUM VITAE

**Gigi J Ebenezer, MBBS, MD**

### DEMOGRAPHIC INFORMATION

#### Current Appointment

**2010-** Assistant professor,  
Neurology Department, Johns Hopkins School of Medicine  
Baltimore, USA

#### Personal data

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Baltimore, MD 21231  
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### EDUCATION AND TRAINING

1977 – 1983 M.B., B.S. Thanjavur Medical College, India. Undergrad Med  
1983 – 1984 House-Surgeon Thanjavur Medical College, India. Internship  
1988 – 1991 M.D. Pathology Madras Medical College, India. Pathology Residency

### PROFESSIONAL EXPERIENCE

1984	Junior Medical Officer	Kanyakumari Medical Mission, India
1987- 1988	Junior Medical Officer	CSI Rainy Hospital, Madras, India
1992- 1996	Pathologist	Department of Histopathology and Experimental Pathology Schieffelin Leprosy Research and Training Center (SLRTC), India
1995 – 2004	Honorary Part-time Lecturer	Norman Institute of Pathology Christian Medical College, Vellore
2000 – 2001	Visiting Scientist	Cutaneous nerve Laboratory Neurology Department Johns Hopkins School of Medicine Baltimore, USA.
1996 – 2004	Head, Department of Pathology and Dr. Charles K Job Chair	Schieffelin Leprosy Research and Training Center (SLRTC)
2004-2010	Research Associate	Cutaneous Nerve Laboratory, Neurology Department Johns Hopkins School of Medicine

#### Other experience

1990 Aug Practical Techniques in Electron Microscopy.  
Madras Medical College, Chennai, India.

1995 Jan	Trainer of Trainers Course. SLRTC Karigiri, India.
1996 Nov	Workshop on Dermatopathology by Dr Bernard Ackerman, Bombay, India.
2010 Aug	Practical training course in confocal microscopy and stereology, Chicago, USA.

## RESEARCH ACTIVITIES

### Publications

1. Arunthathi S, Samuel J, **Ebenezer GJ** and Jacob M. Localized borderline lepromatous leprosy - a case report. Indian J Lepr. 1995; 67:177-181.
2. **Ebenezer GJ**, Sujai Suneetha S, Mohandas R and Arunthathi S. Multibacillary nerve histology in clinically diagnosed Borderline Tuberculoid Leprosy Patients. Int J Lepr Other Mycobact Dis. 1996; 63:311-315.
3. Daniel E, Thompson K, **Ebenezer GJ**, Abraham S and Job CK. Pterygium in lepromatous leprosy. Int J Lepr Other Mycobact Dis. 1996; 64:428 - 432.
4. **Ebenezer GJ**, Daniel E, Job CK. Cavernous Haemangioma in the iris of a leprosy patient. Br J Ophthalmol. 1997; 81:610 - 612.
5. Daniel E, **Ebenezer GJ**, Job CK. Pathology of iris in leprosy. Br J Ophthalmol. 1997; 81: 490-492.
6. **Ebenezer GJ**, Suneetha S and Arunthathi S. Clinical and Histopathological activity in paucibacillary leprosy patients after fixed duration multi-drug therapy. Leprosy Review 1997; 68:218 - 224.
7. Daniel E, **Ebenezer GJ**, Abraham S and Arunthathi S. Posterior Chamber Intra ocular lens implantation in Smear positive leprosy patients. Int J Lepr Other Mycobact Dis. 1997; 65: 502 - 504.
8. Selvasekar Abraham S, **Ebenezer GJ** and Jesudasan K. Diffuse Alopecia of the scalp in borderline - lepromatous leprosy in an Indian patient. Lepr Rev 1997; 68: 336 - 340.
9. Arumugam S, **Ebenezer GJ**, Job CK. Preparation of thymectomized irradiated mice in T900r animals. A modification. Ind. J. Lepr. 1997;69:200-201

10. **Ebenezer GJ**, Kirsteen Thompson K and Daniel E. Capillary proliferation in the iris of a leprosy patient. *Int J Lepr Other Mycobact Dis.* 1998;66:58 – 59
11. **Ebenezer GJ**, Gnanaraj L, Ebenezer M. Lepromatous orchitis associated with Seminoma. *Int J Lepr Other Mycobact Dis.* 1998; 66:385 - 386.
12. Job CK, **Ebenezer GJ**, Thompson K and Daniel E. Pathology of eye in leprosy. *Indian J Lepr.* 1998; 70:79 - 92.
13. **Ebenezer GJ**, Barkataki A and Job CK. Relapsed Leprosy after Multi Drug Therapy presenting in a Histoid form. *Br J Dermatol.* 1999; 140:759 - 760.
14. **Ebenezer GJ**, Job CK. Infection by *M.leprae* is governed by the temperature at the entry point: a preliminary note. *Int J Lepr Other Mycobact Dis.*1999; 67: 162-164.
15. **Ebenezer GJ** and Job CK. Histopathological activity in paucibacillary leprosy patients after ROM therapy. *Int J Lepr Other Mycobact Dis.* 1999; 67:409 - 413.
16. **Ebenezer GJ**, Job A, Suneetha S, Arunthathi S, Rao PSS and Job CK. Nasal mucosa and skin of smear positive leprosy patients after 24 months of fixed duration MDT: A histopathological and Microbiological study. *Int J Lepr Other Mycobact Dis.* 1999; 67: 292-297.
17. Abraham S, **Ebenezer GJ**, Partheebarajan B. Lepromatous lymphadenopathy and concomitant tuberculous axillary lymphadenitis with sinus - a case report. *Lepr Rev* 1999; 70:345-350.
18. Daniel E, **Ebenezer GJ**, John ES, Job CK. Isolated focal melanocytes collection in the lacrimal sac. *Br J Ophthalmol.* 2000; 84: 337.
19. **Ebenezer GJ** and Daniel E. Pathology of a lepromatous eye. *Int J Lepr Other Mycobact Dis.* 2000; 68:23-26.
20. Daniel E, **Ebenezer GJ**, Ffytche TJ, Sigamani A, Job CK. Epithelioid granuloma in the iris of a lepromatous leprosy patient; an unusual finding. *Int J Lepr Other Mycobact Dis.* 2000; 68:152-5.
21. Shaw IN, **Ebenezer GJ**, Geetha S. Rao, Mani Mozhi N, Babu B. Relapse as Histoid leprosy after receiving Multi Drug Therapy (MDT): a report of three cases. *Int J Lepr Other Mycobact Dis.* 2000; 68: 272-276.

22. **Ebenezer GJ**, Daniel S, Suneetha S, Reuban E, Partheebarajan S and Solomon S. Bacteriological study of pus isolates from neuropathic plantar ulcers associated with acute inflammatory phase. *Indian J Leprosy*. 2000; 72: 443-449.
23. Muruganand D, **Ebenezer GJ**, Job C.K. Poly unsaturated fatty acids levels in edible oils. A nutritional factor contributing to the growth of *M.leprae*. *Ind J Lepr*. 2001; 73:62-63.
24. Arunthathi S, **Ebenezer GJ**, Daniel E, Thompson SS. *Nocardia farcinia* pleuritis in a lepromatous patient with severe necrotizing reaction: an unusual presentation. *Int J Lepr Other Mycobact Dis*. 2001; 69:104-107.
25. Shaw IN, **Ebenezer GJ**, Babu B, Rao GS. Borderline tuberculoid leprosy of the scalp. *Lepr Rev*. 2001; 72:357- 359.
26. Shaw IN, **Ebenezer GJ**, Rao GS, Leprosy lesion on the prepuce of the male genitalia- a case report. *Lepr Rev*. 2002;73:276-8
27. **Ebenezer GJ**, Norman G, Joseph G, Daniel S, Job C K. Drug Resistant – *Mycobacterium Leprae*- results of Mouse footpad studies from a laboratory in South India. *Indian J Lepr*. 2002;74:301-312
28. **Ebenezer GJ**, Arumugam S, Job CK. Dosage and site of entry influence growth and dissemination of *Mycobacterium leprae* in T900r mice. *Int.J Lepr Other Mycobact Dis*. 2002;70:245-249
29. Gopalakrishnan K, Daniel E, Jacob R, **Ebenezer GJ**, Mathews M. Bilateral *Bipolaris keratomycosis* in a borderline lepromatous patient. *Int J Lepr Other Mycobact Dis*. 2003; 71:14-7.
30. Norman G, Joseph G, **Ebenezer GJ**, Rao PSS, Job CK. Secondary rifampicin resistance following multidrug therapy- a case report. *Int.J Lepr Other Mycobact Dis*. 2003;71:18-21
31. **Ebenezer GJ**, Daniel E. Expression of protein gene product 9.5 in lepromatous eyes demonstrating ciliary body nerve damage and a dying back phenomenon in the posterior ciliary nerves. *Br J Ophthalmol*. 2004;88:178-181
32. Daniel E, Duriasamy M, **Ebenezer GJ**, Shobhana, Job CK. Elevated free tear lactoferrin levels in leprosy are associated with Type 2 reactions. *Indian J Ophthalmol*.2004; 52:51-6.
33. Kar B, Belliappa PR, **Ebenezer G**, Job CK. Single lesion borderline lepromatous leprosy. *Int J Lepr Other Mycobact Dis*. 2004; 72:45-7.

34. Muruganand D, Daniel E, **Ebenezer GJ**, Rabboni SE, Segar P, Job CK  
Mycobacterium leprae infection and serum lactoferrin levels. *Lepr Rev.*  
2004; 75:282-8.
35. Kar B and **Ebenezer G** and Job CK. Colocalisation of alopecia areata and  
lichen planus. *Indian Journal of Dermatology, Venereology and Leprology*  
2004; 70:242-243.
36. Kar B, Nair V and **Ebenezer G** and Job CK. Squamous cell carcinoma of  
the scalp arising from chronic cutaneous lupus erythematosus: Report of two  
Indian patients. *Indian Journal of Dermatology, Venereology and Leprology*  
2004; 70:236-238.
37. **Ebenezer GJ**, Daniel S, Norman G, Daniel E, Job CK. Are viable  
Mycobacterium leprae present in lepromatous patients after completion of  
12 months' and 24 months' multi-drug therapy? *Indian J Lepr.* 2004; 76:199-  
206.
38. Daniel E, **Ebenezer G**. Anesthesia of face uncovered by histopathology. *Int  
J Lepr Other Mycobact Dis.* 2005; 73:22-4.
39. Kar BR, **Ebenezer G**, Job CK. Subcutaneous cystic swelling in a leprosy  
patient. *Indian J Dermatol Venereol Leprol.* 2005;71:305-6
40. Cherry CL, Skolasky RL, Lal L, Creighton J, Hauer P, Raman SP, Moore R,  
Carter K, Thomas D, **Ebenezer GJ**, Wesselingh SL, McArthur JC.  
Antiretroviral use and other risks for HIV-associated neuropathies in an  
international cohort. *Neurology.* 2006; 66:867-73.
41. Hahn K, Sirdofsky M, Brown A, **Ebenezer G**, HauerP, Miller C, Polydefkis  
M. Collateral sprouting of human epidermal nerve fibers following  
intracutaneous axotomy. *J Peripher Nerv Syst.* 2006; 11:142-7.
42. Zhou L, Kitch DW, Evans SR, Hauer P, Raman S, **Ebenezer GJ**,  
Gerschenson M, Marra CM, Valcour V, Diaz-Arrastia R, Goodkin K, Millar  
L, Shriver S, Asmuth DM, Clifford DB, Simpson DM, McArthur JC; NARC  
and ACTG A5117 Study Group. Correlates of epidermal nerve fiber  
densities in HIV-associated distal sensory polyneuropathy. *Neurology.*  
2007; 68:2113-9.
43. **Ebenezer GJ**, McArthur JC, Thomas D, Murinson B, Hauer P, Polydefkis  
M, Griffin JW. Denervation of skin in neuropathies: the sequence of axonal  
and Schwann cell changes in skin biopsies. *Brain.* 2007; 130:2703-14.

44. Lockwood DN, Lucas SB, Desikan KV, **Ebenezer G**, Suneetha S, Nicholls P. The histological diagnosis of leprosy type 1 reactions: identification of key variables and an analysis of the process of histological diagnosis. *J Clin Pathol.* 2008; 61:595-600.
  
45. Acetyl-L-Carnitine and NRTI-associated neuropathy in HIV. Valcour V, Yeh T, Bartt R, Clifford D, Gerschenson M, Evans SR, Cohen BA, **Ebenezer GJ**, Hauer P, Millar L, Gould M, Tran P, Shikuma C, Souza S, McArthur JC, and the AIDS Clinical Trials Group (ACTG) 5157 protocol team. *HIV Med.* 2009; 10:103-10.
  
46. **Ebenezer GJ**, Laast VA, Dearman B, Hauer P, Tarwater PM, Adams RJ, Zink MC, McArthur JC, Mankowski JL. Altered cutaneous nerve regeneration in a simian immunodeficiency virus / macaque intracutaneous axotomy model. *J Comp Neurol.* 2009 14:272-83.
  
47. Hagge DA, Saunders BM, **Ebenezer GJ**, Ray NA, Marks VT, Britton WJ, Krahenbuhl JL, Adams LB. Lymphotoxin-alpha and TNF have essential but independent roles in the evolution of the granulomatous response in experimental leprosy. *Am J Pathol.* 2009; 174:1379-89.
  
48. Rojas C, Stathis M, Polydefkis M, Rudek MA, Zhao M, **Ebenezer GJ**, Slusher BS. Glutamate carboxypeptidase activity in human skin biopsies as a pharmacodynamic marker for clinical studies. *J Transl Med.* 2011; 9:27.
  
49. **Ebenezer GJ**, O'Donnell R, Hauer P, Cimino NP, McArthur JC, Polydefkis M. Impaired neurovascular repair in subjects with diabetes following experimental intracutaneous axotomy. *Brain.* 2011; 134: 1853-1863.

## EDUCATIONAL ACTIVITIES

### Teaching

#### Classroom instruction

1995-2004	Lectures and Laboratory Bench work for Undergraduate MBBS students	Norman Institute of Pathology, CMC, Vellore, India.
1992-2004	Lectures and Practical Demonstrations in various formal and informal courses for pathologists, physicians, physiotherapists, and nurses, includes international and national trainees. (20% of total effort)	SLRTC Karigiri Vellore India

#### Laboratory Technology instruction/training:

1996-2004	Course coordinator for the one-year Laboratory Technicians courses and Three-month Smear Technician Courses.	SLRTC Karigiri Vellore, India
1999-2004	External examiner for the CMAI Medical Histo -Technology course	CMC, Vellore
2004-	Training laboratory technicians in Epidermal nerve fiber density quantification. Technicians, undergraduate students and research fellows in "Stereology techniques" and in "PALM laser techniques" for micro dissection of tissues.	Johns Hopkins Neurology Department

#### CME Instruction (Lectures):

1995	The histological diagnosis of leprosy Type 1 reaction-identification of key variables in Pathologist's workshop	Agra, India
2003	Laboratory Research Co-ordination Workshop	Anandaban Nepal
2004	Laboratory Research co-ordination workshop	Hyderabad India.
2005	NIAID Leprosy Workshop and US-Japan meeting	Seattle, USA
2010	Neurovascular repair in a Simian-Imunodeficiency virus/Macaque intracutaneous axotomy model	NeuroAIDS meeting, JHU

## **Ad hoc reviewer**

Leprosy review  
International Journal of Leprosy and Other Mycobacterial Diseases  
Indian Journal of Leprosy  
Clinical and Experimental Dermatology  
Clinical and Experimental Immunology  
British Journal of Dermatology  
Journal of Anatomy

## **CERTIFICATION**

1984	MBBS	Madras, TamilNadu, India
1991	MD Pathology	Dr. M.G.R Medical University, Madras, India

## **ORGANIZATIONAL ACTIVITIES**

### **Advisory Committees**

1996-2004	Administrative Advisory Committee, SLRTC, TamilNadu, India
1996-2004	Karigiri Research Committee, SLRTC, TamilNadu, India
2010-	Board member, Leonard Wood Memorial (LWM) of Philippines, under American Leprosy mission (ALM), USA

### **Professional Societies**

1998-	Life member of Indian Association of Pathologists and Bacteriologists (IAPM)
1998-	Life member of the Indian Association of Leprologists (IAL)
2011-	Peripheral nerve society

### **Session Chair**

1998	15th International Congress of Leprosy, Beijing, China. Co-chairman, Clinical Session.
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## RECOGNITION

### Awards, Honors

- 1990 Shantha Arogyadoss Award.  
*Gold Medal Prize in Pathology:* MD Post Graduate Student
- 1999 Indian Association of Leprologists.  
*Ackworth Memorial Award:* Best Scientific paper in Leprosy
- 2000 Indian Association of Pathologists and  
Microbiologists.  
*Smt. Kunti Devi Mehrotra Award:* Best Published paper in Pathology  
and microbiology
- 2000 *Dr Charles K Job Chair in Pathology:* For Professional Excellence
- 2005 Indian Council of Medical Research.  
*JALMA Trust fund oration Award:* Excellence in research in the  
Pathology of Leprosy
- 2005 *Member of the National Academy*  
*of Medical Sciences (India):* Excellence in Leprosy Research

### Invited Talks

- 2009 Many Hosts of Mycobacteria III, a comparative Mycobacteriology  
Symposium. Leprosy seminar, Carville, LA. Epidermal nerve fiber density  
and axotomy models in Armadillos.
- 2007 National Hansen's disease Programs, LSU, Baton Rouge. Epidermal nerve  
fiber density and Schwann cell changes in peripheral neuropathies.
- 2002 16th International Leprosy Congress, Salvador, Brazil. Drug Resistance in  
Leprosy

### Reviews

**Ebenezer GJ**, Hauer P, Gibbons C, McArthur JC, Polydefkis M.  
Assessment of epidermal nerve fibers: a new diagnostic and predictive tool for peripheral  
neuropathies. *J Neuropathol Exp Neurol.* 2007; 66:1059-73. Review.

## Scientific Presentations

- 1994 18th bi-annual conference of the Indian Association of Leprologists held at Madras, India
- 1995 19th biennial conference of the Indian Association of Leprologists Conference. Platform presentation. Pune, India.
- 1999 21<sup>st</sup> biennial conference of the Indian Association of Leprologists Conference. Platform presentation. Chandigarh, India.
- 1999 50th Indian Association of Pathologists and Microbiologists conference. Platform presentation. Mumbai, India.
- 2005 American Academy of Neurol. Ann meeting. Platform presentation. "Ultra structural pathology of cutaneous nerve in the skin of sensory polyneuropathies". San Diego, USA.
- 2008 American Academy of Neurol. Ann. meeting. Poster presentation. "Preserved Schwann cell densities in HIV associated sensory neuropathies". Chicago, USA.
- 2009 American Academy of Neurol. Ann. meeting. Poster Presentation. "Epidermal nerve fiber density in nine-banded armadillos with experimental leprosy neuropathy". Seattle, USA
- 2009 Peripheral Nerve Society (PNS) Meeting. Platform presentation. "Altered cutaneous Nerve Regeneration in a Simian Immunodeficiency virus/macaque Intracutaneous Axotomy model". Wurtzburg, Germany
- 2010 American Academy of Neurol. Ann. meeting. Poster Presentation. "Impaired neurovascular repair in subjects with diabetes following intracutaneous axotomy". Ontario, Canada.
- 2010 The American Diabetes Association (ADA) meeting. Co-author. Platform presentation. VEGF- A transcription factor (SB509) enhances epidermal nerve fiber and blood vessel regeneration. Orlando, Florida
- 2010 American Neurological Association. Ann. meeting. Poster Presentation. Altered Neurovascular Regeneration and VEGF expression in a Simian immunodeficiency virus/macaque Cutaneous Excision Axotomy Model. San Francisco, CA.
- 2011 Peripheral Nerve Society (PNS) Meeting. Poster presentation. Cutaneous nerve fiber regeneration in the distal foot after long term spinal nerve ligation (SNL) in macaques. Potomac, Washington DC, MD

