



# EMG & Nerve Conduction Studies

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## SCOTTSDALE

10200 N 92nd Street Suite 101  
Scottsdale, AZ 85013

## PHOENIX

222 W Thomas Road Suite 406  
Phoenix, AZ 85013

## Publications:

- \* Sinnwell TM, Sivakumar K, Soueidan S, Jay C, Frank JA, McLaughlin AC, Dalakas MC. Abnormal energy metabolism of muscle in AZT treated patients observed by 31P Magnetic Resonance Spectroscopy. *J Clin Invest* 1995;98:126-131.
- \* Vasconcelos O, Sivakumar K, Dalakas MC, Quezado M, Nagle J, Monzon M, Dubnick M, Gajdusek CD, Goldfarb LG. Nonsense mutation in the phosphofructokinase muscle subunit gene associated with retention of intron 10 in one of isolated transcripts in Ashkenazi Jewish Patients with Tarui disease. *Proc Natl Acad Sci USA* 1995;92:10322-10326.
- \* Dalakas MC, Sonies B, Dambrosia JM, Sekul EL, Cupler EJ, Sivakumar K. The efficacy of high-dose intravenous immunoglobulin in patients with inclusion body myositis. *Neurology* 1997; 48:712-716.
- \* Sivakumar K, Semino-Mora C, Dalakas MC. An inflammatory inclusion body myositis with autoimmune features and a phenotype identical to sporadic inclusion body myositis: studies in 3 families. *Brain* 1997;120:653-661.
- \* Goldfarb LG, Park K, Cerbenakova, Lee H, Vasconcelos O, Nagle JW, Semino-More C, Sivakumar K, Dalakas MC. Missense mutations in Desmin associated with familial cardiac and skeletal myopathy. *Nature genetics* 1998, 19:402-403.
- \* Sivakumar K, Sambughin N, Selenge B, Nagle JW, Baasanjav D, Hudson LD, Goldfarb LG. Novel exon38 proteolipid protein gene mutation causing late-onset spastic paraplegie tupe 2 with variable penetrance in female family members, *Ann Neurol* 1999, 45:680-3.
- \* Dalakas MC, Park K, Semino-Mora C, Lee HS, Sivakumar K, Goldfarb LG, Desmin myopathy: a distinct, distal-onset skeletal myopathy with cardiomyopathy caused by mutations in the desmin gene. *N Engl J Med.* 2000, 342:770-780.
- \* Antonellis A, Ellsworth RE, Sambughin N, Puls I, Abel A, Lee-lin S, Jordanova A, Kremensky I, Funalot B, Christodoulou K, Miffleton LT, Sivakumar K, Ionasescu V, Vance JM, Goldfarb LG, Fischbeck KH, Green ED. Glycyl tRNA Synthetase Mutations are Responsible for Charcot-Marie-Tooth Disease Type 2D and Distal Spinal Muscular Atrophy Type V. *American Journal of Human Genetic* 2003; 72(5):1293-9
- \* Sivakumar K, Kyriakides T, Puls I, Nicholson GA, Funalot B, Antonellis A, Ellsworth RE, Sambughin N, Chrisodoulou K, Beggs J, Papanicolaou E, Middleton LT, Ionasescu V, Dalakas MC, Green ED, Fischbeck KH, Goldfarb LG. Phenotypic spectrum of disorders associated with glycyl-tRNA synthetase mutations. *Brain* 2005; 128:2304-14.
- \* Bien-Wilner R, Sambughin N, Holley H, Bodensteiner J, Sivakumar K. Childhood disease onset SPG6 family with a novel NIPA1 gene mutation. *J child neurol* 2006;21(11):974-977.

## Current Medical Practice:

- Evaluation and treatment of patients with neuromuscular disorders
- Electromyography and Nerve conduction studies
- Muscle & nerve biopsies (surgery and interpretation of pathology)
- Clinical research in neuromuscular diseases
- Enzyme histochemical, immunological and molecular genetic methods in neuromuscular research.
- General clinical neurology

## Professional History:

- 2000-Current  
Associate Professor of Clinical Neurology  
University of Arizona, College of Medicine  
Barrow Neurological Institute  
Director, Neuromuscular Research Center  
Myasthenia, Myositis, Immune Neuropathy, ALS and Muscular Dystrophy clinics
- 2001- 2004 Founder and Director, MDA-ALS Center  
Director, MDA Clinic  
Barrow Neurological Institute  
St. Joseph's Hospital  
Scottsdale Health care, Phoenix, AZ
- 2001- 2004 Chief, Neuromuscular Diseases Section  
Barrow Neurological Institute  
St. Joseph's Hospital, Phoenix, AZ
- 1999 –2003 Director  
Clinical Neurophysiology Fellowship Program  
Barrow Neurological Institute, Phoenix, AZ
- 1997 –2001 Attending Neurologist  
Director, Muscular Dystrophy Association Clinic  
Director, Neuromuscular Research Program.  
Neuromuscular Diseases Section  
Division of Neurology  
Barrow Neurological Institute, Phoenix AZ

## Professional Qualifications:

- Diplomate of the American Board of Psychiatry and Neurology, specialty of Neurology.
- Diplomate of the American Board of Electrodiagnostic Medicine.
- Diplomate of the American Board of Psychiatry and Neurology, specialty of Clinical Neurophysiology.
- Diplomate of the American Board of Psychiatry and Neurology, specialty of Neuromuscular diseases
- License in Arizona.
- Member of the Royal College of Physicians, UK.
- Doctor of Medicine (M.B., B.S. British system).

- 1996-1997 Visiting Scientist  
Neuromuscular Diseases Section  
Medical Neurology Branch  
National Institute for Neurological Diseases and Stroke  
National Institutes of Health  
Bethesda, Maryland.
- 1993-1996 Clinical Associate (Neuromuscular Diseases)  
Medical Neurology Branch  
National Institute for Neurological Diseases and Stroke National Institutes of Health  
Bethesda, Maryland.
- 1992-93 Chief Resident (Neurology).  
The Mount Sinai Medical School & Hospital, New York.
- 1990-93 Resident in Neurology.  
The Mount Sinai Medical School & Hospital, New York.
- 1987-88 Internship  
Professional units of internal medicine, surgery, pediatrics and obstetrics & gyn. Teaching Hospital Peradeniya, Sri Lanka
- 1981-86 Undergraduate  
School of Medicine  
University of Peradeniya, Sri Lanka.