

Principal Investigator/Program Director (Last, First, Middle): _____

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Poppas, Dix Philip	POSITION TITLE The Richard Rodgers Family Professor of Pediatric Urology; Professor of Urology in Surgery (Plastic and Reconstructive)		
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR (s)	FIELD OF STUDY
Longwood College, Farmville, VA		1978-	
Virginia Commonwealth U, Richmond VA	BS	1980-	
Medical College of Virginia	Paramedic	1984	
Eastern Virginia Medical School, Norfolk VA	MD	1988	

A. POSITIONS AND HONORS

Graduate Medical Education:

- Intern in General Surgery, Eastern Virginia Graduate School of Medicine, Norfolk, VA., 7/88 to 6/89
- Resident in General Surgery, Eastern Virginia Graduate School of Medicine, Norfolk, VA., 7/89 to 6/90.
- Assistant Urologist (Resident), New York Hospital, New York, NY., 7/90 to 6/93.
- Urologist (Chief Resident), New York Hospital, 7/93 to 6/94.
- Fellow in Pediatric Urology (Surgery), Children's Hospital - Harvard Medical School, 7/94 to 6/96.

Academic positions (teaching and research)

- Assistant Professor of Urology, Cornell University Medical Center, New York, NY., 7/97- 9/01
- Director, Pediatric Urology and Laparoscopy, New York Hospital, New York, NY., 7/96 to present.
- Director, Laboratory for Minimally Invasive Urologic Surgery, 7/97 to present.
- The Richard Rodgers Family Assistant Professor of Pediatric Urology, 7/97 –9/01.
- Assistant Professor of Urology in Surgery (Plastic and Reconstructive Surgery), Cornell University Medical Center, New York, NY., 9/97- 9/01
- Associate Professor of Urology, Cornell University Medical Center, New York, NY., 9/01- present
- The Richard Rodgers Family Associate Professor of Pediatric Urology, 9/01- present
- Associate Professor of Urology in Surgery (Plastic and Reconstructive Surgery), Cornell University Medical Center, New York, NY., 9/01- present

Professional Memberships (medical and scientific societies)

- | Member/officer | Name of Organization | Dates held |
|----------------|--|-----------------|
| Member | Alpha Omega Alpha Honor Medical Society | 1988 to present |
| Member | American Urologic Association | 1990 to present |
| Fellow | American Society for Laser Medicine and Surgery | 1989 to 2001 |
| Fellow | American College of Surgeons | 1998 to present |
| Member | Sigma Xi Scientific Research Society | 1990 to present |
| Member | The New York Section American Urological Association | 1996 to present |
| Member | Society for Pediatric Urology | 1996 to present |

Member The Hellenic Medical Society of New York 1996 to present
Member Society for Fetal Urology 1997 to present
Member The New York Clinical Society 1998 to present
Fellow American Academy of Pediatrics 1998 to present
Diplomat American Board of Urology 1999 to present

Selected Publication [in chronological order]

Poppas, D., Schlossberg, S., Richmond, I., Gilbert, D., and Devine, Jr., C.: Laser Welding in Urethral Surgery: Improved Results with a Protein Solder. *J. Urology*, 139:415-417, 1988.

Ganesan, G., Poppas, D., Schlossberg, S., and Devine, JR., C.: Urethral Reconstruction Using the CO2 Laser: An Experimental Evaluation. *J. of Urology*, 142:1139-1141, 1989.

Poppas, D., Sutaria, P., Sosa, E., Mininberg, D., and Schlossberg, S.: Chromophore Enhanced Laser Welding of Canine Ureters In Vitro Using a Human Protein Solder: A Preliminary Step for Laparoscopic Tissue Welding. *J. of Urology*, 150:1052-1055, 1993

Poppas, D., Choma, T., Rooke, C., Schlossberg, S.: Preparation of Human Albumin Solder for Laser Tissue Welding. *Lasers Surg. Med.*, 13:577-580, 1993.

Klioze, S., Poppas, D., Rooke, C., Choma, T., and Schlossberg, S.: Development and Initial Application of a Real Time Thermal Control System for Laser Tissue Welding. *J Urol* 152: 744-748, 1994.

Poppas, D., Klioze, S., Uzzo, R., and Schlossberg, S.: Temperature Controlled Burst Strength Measurements of Various Sutures Used in Laser Tissue Welding. *Urology*, 45:253-257, 1995.

Uzzo, R.G., Lemack G.E., and Poppas, D.P.: Genitourinary Reconstructive Surgery Utilizing Laser Tissue Welding. *Tech. Urology*, 2 (1): 1-18, 1995.

Poppas, D., Uzzo, R., Britanisky, R., Wright, J., Mininberg, D.: Laparoscopic Laser Assisted Autoaugmentation of the Pediatric Neurogenic Bladder: Early Experience with Urodynamic Follow-up. *J. Urology*, 155:1057-1060, 1996.

Massicotte JM; Stewart RB; Poppas DP. Effects of endogenous absorption in human albumin solder for acute laser wound closure.. *Lasers Surg Med* 1998;23(1): p18-24

Lauto A; Poppas DP; Murrell GA. Solubility study of albumin solders for laser tissue-welding.. *Lasers Surg Med* 1998;23(5): p258-62

Poppas DP; Pavlovich CP; Folkman J; Voest EE; Chen X; Luster AD; O'Donnell MA. Intravesical bacille Calmette-Guerin induces the antiangiogenic chemokine interferon-inducible protein 10. *Urology* 1998 Aug;52(2): p268-75;

Pavlovich CP; Gmyrek GA; Gardner TA; Poppas DP; Mininberg DT. Flexible transinguinal laparoscopy to assess the contralateral ring in pediatric inguinal hernias.. *Tech Urol* 1998 Sep;4(3): p141-4

Poppas DP; Bleustein CB; Peters CA. Box stitch modification of Hasson technique for pediatric laparoscopy.. *J Endourol* 1999 Jul-Aug;13(6): p447-50

Lauto A, Kirman I, Ohebshalom M, , Poppas DP: Two-layer film as a laser soldering biomaterial. *Lasers Surg Med* 25:250-6, 1999.

Yao D; Poppas DP. A clinical series of laparoscopic nephrectomy, nephroureterectomy and heminephroureterectomy in the pediatric population.. *J Urol* 2000 May;163(5): p1531-5

Poppas DP; Wei JT; Mingin GC. The concealed laparoscopic orchidopexy.. *BJU Int* 2000 Jul;86(1): p138-9

Cuomo BE, Lauto A, Kirman I, , Poppas DP. Assessment of the Degradation of Denatured Albumin Solder by Human Urine. *J. Urol*, 163:634-637, 2000.

Bleustein CB, Cuomo B, Mingin GC, Ohebshalom MM, Lauto A, Shin SJ, Stewart RB, , Soslow RA, Sennett M and Poppas DP. Laser-assisted demucosalized gastrocystoplasty with autoaugmentation in a canine model. *Urology* 55:437-42, 2000.

Kohan AD, Danziger M, Vaughan ED Jr, . Effect of aging on bladder function and the response to outlet obstruction in female rats. *Urol Res.* 28: 33-7, 2000.

Bleustein CB, and Poppas DP. Welding characteristics of different albumin species with and without fatty acids. *Lasers Surg Med* 27:82-86, 2000.

Bleustein CB, and Poppas DP. Semi-Solid albumin solder improved mechanical properties for laser tissue welding. *Lasers Surg Med.* 27:140-146, 2000.

Miyajima A, Chen J, Kirman I, Poppas DP, Vaughan ED Jr, . Interaction of Nitric Oxide and Transforming Growth Factor- β -1 induced by Angiotensin II and Mechanical Stretch in Rat Renal Tubular epithelial cells. *J. Urol.* 164:1729-1734, 2000.

Miyajima A, Chen J, Lawrence C, Ledbetter S, Soslow RA, Stern J, Jha S, Pigato J, Lemer M, Poppas DP, Vaughan ED Jr, Antibody to TGF- β Ameliorates Tubular Apoptosis In Unilateral Ureteral Obstruction. *Kid Int.* 58:2301-2313, 2000.

Hochberg D., Johnson CW, Chen J, Cohen D, Stern J, Vaughan ED Jr, Poppas DP, . Interstitial Fibrosis of Unilateral Ureteral Obstruction is Exacerbated in Kidneys of Mice Lacking the Gene for Inducible NOS. *Lab. Invest* 80:1721-1728, 2000.

Bleustein CB, Sennett M, Kung RT, Poppas DP, Stewart RB Differential scanning calorimetry of albumin solders: Interspecies differences and fatty acid binding effects the protein denaturation. *Lasers Surg Med* 27:465-470, 2000.

Bleustein CB, Esposito M, Soslow RA, and Poppas DP. Mechanism of healing following Snodgrass Repair *J. Urol*, 165:277-279, 2001.

Miyajima A, Chen J, Poppas DP, Vaughan ED Jr, . Role of nitric oxide in renal tubular apoptosis of unilateral ureteral obstruction. *Kid. Int.* 59:1290-1303, 2001.

Pareek G, Specht M, Lin D, Petratos PB, Fahey TJ, Soslow RA, Poppas DP Hand Assisted Demucosalized Gastrocystoplasty Comparing Different Tissue Closure Methods. *Urology* 58:625-630, 2001.

Petratos PB, Chen J, D, Poppas DP. Local Pharmaceutical Release from a Hydrogel Implant. *J. Surg Res.* 103:55-60, 2002.

Rivera ADC, Walker CN, Bleustein CB, Choi B, Poppas DP, D Enhanced Adenoviral-Vector Mediated Gene Transfer using Human Albumin Solder. *Lasers Surg Med* 30:313-319, 2002.

Petratos PB, Felsen D Trierweiler G, Pratt BD, McPherson JM, Poppas DP. Transforming growth factor- β 2 (TGF- β 2) reverses the inhibitory effects of fibrin sealant on cutaneous wound repair in the pig. *Wound Repair and Regeneration* 10:252-258, 2002.

Specht M, Pareek G, Lin D, Bleustein C, Fahey TJ, Felsen D, Poppas DP. Hand-Assisted Laparoscopic Autoaugmentation Gastrocystoplasty. *Surgical Endoscopy.*

Gmyrek GA; New MI; Sosa RE; Poppas DP. Bilateral laparoscopic adrenalectomy as a treatment for classic congenital adrenal hyperplasia attributable to 21-hydroxylase deficiency.. *Pediatrics* 2002 Feb;109(2): pE28
Petratos PB, Chen J, Soslow RA, Bleustein CB, Poppas DP, Felsen D. Full-Thickness Human Foreskin Transplantation onto Nude Rats as an In Vivo Model of Acute Human Wound Healing *Plast Reconstr Surg* 111:1988-97, 2003.

Felsen D, Dardashti K, Ostad M, Lemer ML, Gross SS, Chen J, Vaughan ED Jr., Poppas DP. Inducible Nitric Oxide Synthase (iNOS) Promotes Pathophysiological Consequences of Experimental Bladder Outlet Obstruction. *J. Urol* 169: 1569-72, 2003.

Munver R, Del Pizzo JJ, Sosa RE, Poppas DP. Minimally invasive surgical management of ureteropelvic junction obstruction: laparoscopic and robot-assisted laparoscopic pyeloplasty *J Long Term Eff Med Implants.* 13:367-84, 2003.

David S, Schiff JD, Poppas DP. Henoch-Schonlein purpura involving the glans penis. *Urology* 61:1035, 2003
Cilento BG, Diamond DA, Yeung CK, Manzoni G, Poppas DP, Hensle TW. Laparoscopically assisted ureterocystoplasty... *BJU Int* 91:525-7, 2003.

Petratos PB, Rucker GB, Soslow RA, Felsen D, Poppas DP. Evaluation of Octylcyanoacrylate for Wound Repair of Clinical Circumcision and Human Skin Incisional Healing in a Nude Rat Model. *J. Urol* 167:677-679, 2002.

Ito K, Chen J, Poppas DP, Vaughan ED, Jr., Seshan SV and Felsen D. Dietary L-arginine Supplementation Improves Both Glomerular Filtration Rate and Renal Blood Flow after 24 Hours of Unilateral Ureteral Obstruction in Rats. *J. Urology* 171, 926-930, 2004.

Stern J, Stahl J, Felsen D, Poppas D. Effect of Testosterone on Angiogenesis in a Xenograft Model of Human Skin Healing. *Urology* 63: 999-1003, 2004.

Ito K, Chen J, El Chaar M, Stern J, Seshan S, Khodadadian J, Eaton C, Poppas D, Vaughan ED, Felsen D Liposome-mediated Transfer of Inducible Nitric Oxide Synthase Gene into the Kidney. *Kidney International* 66: 1365-75, 2004. [With cover photo].

Ito K, Chen J, El Chaar M, Stern JM, Seshan SV., Khodadadian JJ, Richardson I, Hyman MJ, Vaughan ED Jr, Poppas DP, Felsen D. Renal Damage Progresses Despite Improvement of Renal Function After Relief of Unilateral Ureteral Obstruction (UUO) in Adult Rats. *Am J Physiol Renal* 287: F1283F1293, 2004.

Vaughan ED Jr, Marion D, Poppas DP, Felsen D. Pathophysiology of Unilateral Ureteral Obstruction: Studies from Charlottesville to New York. *J. Urol*, 172:6, 2563-2569, 2004.

Stern J, Chen J, Silver RB, Poppas DP, Vaughan ED Jr, Felsen D. Effect of Unilateral Ureteral Obstruction on Dopamine1A Receptor Reveals a Link between Dopamine, Transforming Growth Factor- β and Nitric Oxide. *American J. Physiol [Renal]*, 286: 509-515, 2004.

David S, and Poppas D: Nerve Sparing Extravesical Ureteral Reimplantation: Description of Technique and Evaluation of Urinary Retention in Bilateral Cases. *J. Urology*, 2004.

Schiff S, Kelly C, Goldstein M, Schlegel P and Poppas D: Managing varicoceles in children: results with microsurgical varicocelectomy. *Urology* 399-403, 2005.

El Chaar MM, Attia E, Chen J, Hannafin J, Poppas DP, Felsen D. Effects of a Cyclooxygenase-2 Inhibitor on Matrix Synthesis in Stretched Fibroblasts. *Nephrology* 100: pe150-155, 2005.

Ito K, Chen J, Seshan SV, Khodadadian JJ, Gallagher R, El Chaar M, Vaughan ED Jr, Poppas DP, Felsen D. Dietary Arginine Supplementation Attenuates Renal Damage after Relief of Unilateral Ureteral Obstruction in Rats. *Kid Int* 68:515-528, 2005.

Schiff J, Kelly C, Goldstein M, Schlegel P, Poppas D. Managing varicoceles in children: results with microsurgical varicocelectomy. *BJU International*. 95(3):399-402, 2005.

Kellner D, Chen J, Richardson I, Seshan SV, El Chaar M, Vaughan ED Jr, Poppas D, Felsen D. Angiotensin receptor blockade decreases fibrosis and fibroblast expression in a rat model of unilateral ureteral obstruction. *J Urol* 176:806-12, 2006.

El Chaar, Chen J, Seshan SV, Jha S, Richardson I, Ledbetter SR, Vaughan ED Jr, Poppas DP, Felsen D. The Effect of Combination Therapy with Enalapril and the TGF- β Antagonist 1D11 in Unilateral Ureteral Obstruction. *Amer J Physiol [Renal]* 292: F1291 - F1301, 2007

Poppas, DP, Felsen D. Editorial Comment. *Urology* 69: 564, 2007.

Poppas DP, Hochshtein A, Baergen RN, Loyd E, Chen J, Felsen D. Nerve Sparing Ventral Clitoroplasty Preserves Dorsal Nerves in CAH. *J Urol*, 178:1802-1806, 2007.

Yang JH, Felsen D, Poppas DP: Nerve Sparing Ventral Clitoroplasty. Part 2: Analysis of Clitoral Sensitivity and Viability. *J Urol*, 178:1598-1601, 2007.

Broadbelt NV, Stahl PJ, Chen J, Mizrahi M, Lal A, Bozkurt A, Poppas DP and Felsen D. Early upregulation of iNOS mRNA expression and increase in NO metabolites in pressurized renal epithelial cells. *Am J Physiol, Renal*, 293: 1877-1888, 2007.

Ito K, Chen J, Khodadadian JJ, Vaughan ED Jr, Lipkowitz MS, Poppas DP, Felsen D. Adeno-associated viral vector transduction of Green Fluorescent protein (GFP) in kidney: Effect of unilateral ureteral obstruction. *BJU International* 101: 376-381, 2008.

Mizuguchi Y, Chen J, Seshan SV, Poppas DP, Szeto HH and Felsen D. A novel cell permeable antioxidant peptide decreases renal tubular apoptosis and damage in unilateral ureteral obstruction. In Press, *Am J Physiol, Renal*, 2008.

Branski RC, Kraus DH, Weksler BB, Barbieri S, Chen J, Broadbelt N, Poppas DP and Felsen D. Transforming Growth Factor (TGF)- β 1 regulates fibroplasia in human vocal fold fibroblasts. In press, *Annals of Otolaryngology, Rhinology, and Laryngology*, 2008.

Broadbelt NV, Chen J, Silver RB, Poppas DP and Felsen D. Pressure activates epidermal growth factor receptor (EGFR) leading to the induction of iNOS via NF κ B and STAT3 in human proximal tubule cells (HKC-8). *American J Physiol Renal*, 297: F114-F124, 2009.

Other Support: None

**Weill Medical College of Cornell University
Memorial Sloan-Kettering Cancer Center and
Hospital for Special Surgery
Curriculum vitae and Bibliography**

Date of preparation: 03/08/2010

A. GENERAL INFORMATION

1. Name: Saroj Nimkarn, MD
2. Current Office: Division of Pediatric Endocrinology, Department of Pediatrics, Weill Cornell Medical College, 525 E.68th Street, Box 103, New York, NY 10065
3. Home: 450 E 63rd Street, Apt 5I, New York, NY 10065
4. Phone 646 962 2227 (office), 347 306 4912 (home)
5. Beeper: 212 746 6700 #13230
6. Email: san2002@med.cornell.edu
7. Citizenship: US
8. Optional Information:
 - a. Date of birth: 02/09/1967
 - b. Place of birth: Bangkok
 - c. Marital status: Single
 - d. Spouse's name: N/A
 - e. Children's names and ages: N/A
 - f. Race/Ethnicity: Asian/ non-hispanic
 - g. Languages spoken/written: English, Thai
 - h. Gender: Male

B. EDUCATIONAL BACKGROUND

Degree	Institution	Dates attended	Year awarded
M.D.(honors)*	Faculty of Medicine Ramathibodi Hospital, Mahidol University, Bangkok 10500, Thailand	06/01/1985 to 03/21/1991	1991

* Combined undergraduate and MD degree in a 6 year program

C. PROFESSIONAL POSITIONS AND EMPLOYMENT

1. Post-doctoral training (include residency/fellowships)

Title	Institution name and location	Dates held
Internship (PG-1) in Pediatrics	University of Illinois at Chicago Medical Center, Chicago, IL	06/24/1993-06/30/1994
Pediatric Resident (PG-2 and 3)	University of Illinois at Chicago Medical Center, Chicago, IL.	07/01/1994-06/30/1996
Pediatric	Department of Pediatrics, New York	07/19/1996-

Endocrinology Fellow	Presbyterian Hospital-Weill Medical College of Cornell University, New York, NY	12/14/2000
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2. Academic positions (teaching and research)

Title	Institution name and location	Dates held
Pediatric Endocrinologist, Clinical Instructor	Department of Pediatrics, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand	01/03/2001- 03/11/2003
Assistant Professor of Pediatrics	Department of Pediatrics, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand	03/12/2003- 05/31/04
Assistant Professor of Pediatrics	Department of Pediatrics, Medical College of Wisconsin, Milwaukee, Wisconsin	07/01/04- 07/31/05
Assistant Professor of Pediatrics	Department of Pediatrics, The Mount Sinai School of Medicine of New York University, New York, New York	08/08/05- 03/01/09
Assistant Professor of Pediatrics	Department of Pediatrics, Weill Cornell Medical College	03/02/09- present

3. Hospital positions (e.g., attending physician)

Title	Institution name and location	Dates held
Attending	Siriraj Hospital, Bangkok, Thailand	01/03/2001-05/31/2004
Consulting/Courtesy Attending	Children's Hospital of Wisconsin, Milwaukee, Wisconsin	07/01/2004- 07/31/05
Assistant Attending	Kravis's Children Hospital at the Mount Sinai Medical Center	10/21/05- 03/01/09
Assistant Attending	New York Presbyterian Hospital	Application is process

4. Other Employment

The period between 03/1991 (medical school graduation) and 06/1993 (Pediatric Internship training), I worked as a general practitioner at Chomthong Community Hospital in a rural area in Chiangmai, Thailand. This was a service that every Thai medical graduate had to serve the country.

5. Board Certification

Full Name of Board	Certificate #	Date
American Board of Pediatrics	059728	10/09/1996
American Board of Pediatrics and its Subboard of Pediatric Endocrinology	000834	08/09/1999(re-certified 10/06)

D. PROFESSIONAL MEMBERSHIPS (medical and scientific societies) (in chronological order)

Member/officer	Name of Organization	Dates held
Member	Endocrine Society	1997 to present
Member	Lawson Wilkins Pediatric Endocrine Society	2000 to present
Member	International Diabetes Federation	2004 to present
Member	Asian Pacific Paediatric Endocrine Society	2002 to present

E. HONORS AND AWARDS (in chronological order)

1. Second Class Honors, Doctor of Medicine Mar 1991
2. Recognition Winning Poster Award, National Cooperative Growth Study, Charleston, South Carolina Oct 1999
3. Endocrine Society Endocrinology Award, The Endocrine Society of Thailand Oct 2003
4. The Investigator Award, The 11th Asian Congress of Pediatrics & the 1st Asian Congress of Pediatric Nursing Nov 2003
5. Free Paper Award, the 44th Siriraj Scientific Annual Meeting, Faculty of Medicine Siriraj Hospital, Mahidol University, Bangkok, Thailand Nov 2003
6. Chalerm Prakiet fund award, Siriraj Foundation, Bangkok Jan 2004

F. INSTITUTIONAL/HOSPITAL AFFILIATION

1. Primary Hospital Affiliation: New York Presbyterian Hospital
2. Other Hospital Affiliations: Applying for New York Hospital Queens
3. Other Institutional Affiliations: Applying for Memorial Sloan Kettering Hospital and Hospital for Special Surgery

G. EMPLOYMENT STATUS

1. Name of Current Employer(s): Weill Cornell Medical College

Employment Status: Full-time salaried by Cornell

H. RESEARCH SUPPORT

(Summarize [in chronological order] past research support and list the following for current extramural and intramural research funding)

1 U54 RR19484-03-06

8/1/04-07/31/09

NCRR, ORD

The Natural History of Rare Genetic Steroid Disorders

40% Effort

Total Costs \$4,489,943

PI: Maria New, MD

An international consortium to study several rare genetic steroid disorders from conception to old age with data stored at a central data technology center; one of eight consortia funded through NIH Rare Disease Network.

Role: Co-Principal Investigator

PAST GRANT

003 (III)/45

12/01/01-12/01/03

Faculty of Medicine Siriraj Hospital, Institutional grant

30% Effort

Total Cost \$31,000

PI: Saroj Nimkarn, MD

Molecular analysis of steroid 21-hydroxylase deficiency congenital adrenal hyperplasia in Thai, genotype and phenotype correlation.

Role: Principle investigator

5R37 HD00072-39-42

NIH-NICHD MERIT AWARD

07/01/02-06/30/07

Androgen Metabolism in Childhood

40% Effort

Total Costs: \$2,813,123

PI: Maria New, MD

The aim of this grant is to study genetic steroid disorders including 21-hydroxylase deficiency causing congenital adrenal hyperplasia, 11b-hydroxysteroid dehydrogenase-2 deficiency causing apparent mineralocorticoid excess, and others.

Role: Co-Investigator

I. EXTRAMURAL PROFESSIONAL RESPONSIBILITIES

1 INVITED LECTURES/ PRESENTATIONS

International

- 1.1 "Congenital Adrenal Hyperplasia in Thailand", Pediatric Grand Rounds, The Children's Hospital at Downstate, SUNY at Downstate, Brooklyn, New York, May 7, 2003
- 1.2 "Management of congenital adrenal hyperplasia", Endolink symposia, Seoul, Korea, October 10-11, 2003.
- 1.3 "Endocrine hypertension in children", Endolink symposia, Seoul, Korea, October 10-11, 2003.
- 1.4 "Congenital adrenal hyperplasia", 12th Congress of the Asian Federation of Endocrine Societies & 7th Asia and Oceania Thyroid Association Congress (AFES & AOTA 2003), Singapore, November 30, 2003
- 1.5 "Prenatal diagnosis and treatment of congenital adrenal hyperplasia owing to 21-hydroxylase deficiency", 3rd Biennial Scientific Meeting Asia Pacific Paediatric Endocrine Society, Kobe, Japan. September 24-26, 2004
- 1.6 "Congenital Adrenal Hyperplasia Diagnosis and Management" Pediatric Endocrinology Workshop, Shanghai, P.R China, September 14, 2007
- 1.7 "Treatment with growth hormone and luteinizing hormone releasing hormone analog improves to improve short and long term growth in congenital adrenal hyperplasia" 100th Anniversary of Ruijin Hospital Medical College, Shanghai JiaoTong University, Shanghai, P.R China, September 16, 2007
- 1.8 "Apparent Mineralocorticoid Excess-Update" The 2nd World Conference: Hormonal and Genetic Basis of Sexual Differentiation Disorders and Hot Topics in Endocrinology, Miami, Florida, January 15-17, 2010

National

- 2.1 "Future of Diabetes care", during diabetes summer camp, Karnchanaburi, Thailand, April 7-11, 2003
- 2.2 "My Wishes", during diabetes summer camp, Ayuthaya, Thailand, April 20-25, 2001
- 2.3 "Steroid disorders in children and adolescents", 8th endocrine weekend, Karnchanaburi, Thailand, Mar 16-17, 2002

Other Institutions

- 3.1 "Steroid 21 hydroxylase deficiency congenital adrenal hyperplasia", Grand round at King Chulalongkorn Memorial Hospital, Chulalongkorn University, Bangkok, Thailand, Jan 17, 2003
- 3.2 "Obesity in childhood and adolescence", Grand rounds at Bangkok Christian Hospital, Bangkok Christian College, Bangkok, Thailand, Jan 14, 2003
- 3.3 "Precocious puberty", Grand rounds at Bangkok Christian Hospital, Bangkok Christian College, Bangkok, Thailand, Aug 12, 2003
- 3.4 "Insulin pump therapy", Endocrine grand rounds at Department of Pediatrics, Faculty of Medicine, Siriraj Hospital, Bangkok, Thailand, Sep 28, 2004
- 3.5 "Prenatal diagnosis and treatment of congenital adrenal hyperplasia", Jointed grand rounds of Pediatrics and Medical Genetics at Department of Pediatrics, Faculty of Medicine, Siriraj Hospital, Bangkok, Thailand, Mar 3, 2005
- 3.6 "Comprehensive study of congenital adrenal hyperplasia due to 21 hydroxylase deficiency in 92 Thai patients, from genotypes to

- phenotypes” Pediatric research seminar, Department of Pediatrics, Mount Sinai School of Medicine, New York, New York, Oct 10, 2005
- 3.7 “Prenatal Diagnosis and Treatment of Congenital Adrenal Hyperplasia”, Brookdale University Hospital and Medical Center Grand Rounds, Brooklyn, NY 11212, April 27, 2007
 - 3.8 “Steroid 21 hydroxylase deficiency congenital adrenal hyperplasia, Prenatal Diagnosis and Treatment” Alpert Medical School of Brown University Adult and Pediatric Endocrine Grand Rounds Series, Providence, RI 02903, April 22, 2009
 - 3.9 “Strategy to improve final height in virilizing congenital adrenal hyperplasia”, Brookdale University Hospital and Medical Center Grand Rounds, Brooklyn, NY 11212, April 10, 2009
2. Registration Committee, the 11th Asian Congress of Pediatrics & the 1st Asian Congress of Pediatric Nursing, Nov 2-7, 2003, Bangkok, Thailand.
 3. Extramural Grant Reviewer, Research Grants Council of Hong Kong 7/F Shui On Centre, 6-8 Harbour Road, Wanchai, Hong Kong
 4. Journal Reviewer for Gynecologic Endocrinology, the official journal of the International Society of Gynecological Endocrinology, Pisa, Italy 56100
 5. Journal Reviewer for Endocrine, Humana Press, United States

J. BIBLIOGRAPHY

Original peer-reviewed articles

1. **Nimkarn S**, Cerame BI, Wei JQ, Dumic M, Zunec R, Brkljacic L, Skrabic V, New MI, Wilson RC. Congenital adrenal hyperplasia (21-hydroxylase deficiency) without demonstrable genetic mutations. *J Clin Endocrinol Metab.* Jan;84(1):378-81, 1999.
2. Cerame BI, Newfield R, Pascoe L, Curnow KM, **Nimkarn S**, Roe TF, New MI, Wilson RC. Prenatal diagnosis and treatment of 11 β -hydroxylase deficiency congenital adrenal hyperplasia resulting in normal female genitalia. *J Clin Endocrinol Metab.* Sep;84(9):3129-34, 1999.
3. New MI, **Nimkarn S**, Brandon DD, Cunningham-Rundles S, Wilson RC, Newfield R, Vandermeulen J, Barron N, Russo DL, Loriaux L, O'malley B. Partial resistance to several steroids in two sisters. *J Clin Endocrinol Metab.* Dec;84(12):4454-64, 1999
4. New MI, Obeid J, Wilson RC, Cabrera MS, Goseco A, Macapagal MC, Marshall I, **Nimkarn S**, Quintos JB, Ten S, Ugrasbul F, Vandermolen, Harbison MD. Profile of The Pediatric Endocrine Clinic at New York-Presbyterian Hospital, New York Weill Cornell Center. *J Clin Endocrinol Metab.* 1999 Dec;84(12):4444-9, 1999
5. New MI, **Nimkarn S**, Brandon DD, Cunningham-Rundles S, Wilson RC, Newfield R, Vandermeulen J, Barron N, Russo DL, Loriaux L, O'malley B. Partial resistance to multiple steroids in two sisters. *J Steroid Biochem Mol Biol.* Jan-Mar;76(1-5):161-6, 2002
6. Sawathiparnich P, Likitmaskul S, Angsusingha K, **Nimkarn S**, Chaichanwatanakul K, Laohapansang M, Tuchinda C. Persistent

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BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Maria George Vogiatzi		POSITION TITLE Associate Professor, Pediatric Endocrinology, New York Presbyterian Hospital/Weill College of Cornell University, NY	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Aristotelian University of Thessaloniki, Medical School, Thessaloniki, Greece	M.D.	9/1980-11/1987	Medicine

Employment:

1988-1991	Residency in Pediatrics - State Univ of NY- Health Science Center at Brooklyn, Brooklyn, NY
1991-1993	Fellowship in Pediatric Endocrinology - New York Presbyterian Hospital/ Weill College of Cornell University, New York, NY
1993-1995	Fellowship in Pediatric Endocrinology- Texas Children's Hospital- Baylor College of Medicine, Houston, TX
1995-1997	Attending Physician, Newman Memorial Hospital, Shattuck, OK
1997-2000	Instructor in Pediatrics, New York Presbyterian Hospital/Weill College of Cornell University, New York, NY
2000-5/2006	Assistant Professor in Pediatrics, New York Presbyterian Hospital/Weill College of Cornell University, New York, NY
5/06-present	Associate Professor in Pediatrics, New York Presbyterian Hospital/Weill College of Cornell University, New York, NY
5/2004 -2/06	Acting Chief, Pediatric Endocrinology, New York Presbyterian Hospital/Weill College of Cornell University, New York, NY
2/06-present	Chief and Program Director, Pediatric Endocrinology, New York Presbyterian Hospital/Weill College of Cornell University, New York, NY

Professional Memberships:

Member- The Endocrine Society; 1993 to present
 Member- The Lawson Wilkins Pediatric Endocrine Society; 1997 to present
 Member- American Association of Clinical Endocrinologists 2002 to present
 Member- International Society for Experimental Hematology(ISEH); 2/2004 to present
 Member- American Society of Bone and Mineral Research; 2/05 to present

Publications**A. Original Research:**

M.G. Vogiatzi, S. Gunn, A. Scheuerle, E.R.B. McCabe and K.C. Copeland. Adrenal crisis in the newborn; details leading to the correct diagnosis. *Journal of Clinical Endocrinology and Metabolism* 1995; 80(4): 1079-82.

M.G. Vogiatzi, S. Gunn, A. Scheuerle, E.R.B. McCabe and K.C. Copeland. Gastrointestinal Symptoms and Diabetes Mellitus in Children and Adolescents. *Clinical Pediatrics* 1996; 35(7): 343-347.

M.G. Vogiatzi, M.Boeck, E. Vlachopapadopoulou, R. El-Rashidy and M.I. New. Dehydroepiandrosterone in morbidly obese adolescents: Effects on weight, body composition, lipids and insulin resistance. *Metabolism: Clinical and Experimental* 1996; 45(8): 1011-1015.

- M.G. Vogiatzi, J.L. Kirkland. Frequency and necessity of thyroid function tests in neonates and children with congenital hypothyroidism. *Pediatrics*, 1997; 100(3), electronic pages: <http://www.pediatrics.org/cgi/content/full/100/3/e6>
- M.G. Vogiatzi, P. Beckett, S. Nair and K.C. Copeland. Failure of insulin to stimulate protein synthesis in children with insulin dependent diabetes mellitus. *Journal of Clinical Endocrinology and Metabolism* – 1997, 82: 4083-4087
- J.B.Quintos, M.G.Vogiatzi, M.D.Harbison and M.I.New. Growth hormone therapy alone or in combination with GnRH analogue therapy to improve the height deficit in children with congenital adrenal hyperplasia. *Journal of Clinical Endocrinology and Metabolism* – 2001,86:1511-1517
- M.S.Cabrera, M.G.Vogiatzi and M.I.New. Long term outcome in adult males with classical congenital adrenal hyperplasia.*Journal of Clinical Endocrinology and Metabolism* – 2001,86:3070-3078
- K.Lin-Su, M.G.Vogiatzi and M.I.New. Body mass index and age at menarche in an adolescent clinic population. *Clinical Pediatrics*; 2002; 41:501-507
- I. Marshall, B.T. Betensky, D.Flieder, M.V. Vogiatzi . Fragile X and Mosaic 45,X/46,XY in a child with mixed gonadal dysgenesis. *American Journal of Medical Genetics*; Accepted for publication online (http://www.wiley.com/legacy/products/subject/life/genetics/genetics_ajmg.html), 12 Jun 2003.
- I. Marshall, F. Ugrasbul, F. Manginello, M.P. Wajnrajch, M.I. New, C.H.L. Shackleton and M.G. Vogiatzi. Congenital hypopituitarism as a cause of undetectable estriol levels in the maternal triple- marker screening. *Journal of Clinical Endocrinology and Metabolism*; 2003;88: 4144-4148
- M.G. Vogiatzi, K.A. Autio, R. Schneider, P.J. Giardina. Low bone mass in prepubertal children with Thalassemia major: Insights in the pathogenesis of low bone mass in Thalassemia. *Journal of Pediatric Endocrinology and Metabolism*- 2004; 17: 1415-1421
- K. Lin-Su, M.G. Vogiatzi, I. Marshall, M.D. Harbison, B. Betensky, S. Tansil, M.I. New. Treatment with growth hormone and LHRH analogue improves final adult height in children with congenital adrenal hyperplasia. *Journal of Clinical Endocrinology and Metabolism*; 2005; 90: 3318-3325.
- M.G. Vogiatzi, K.A. Autio, J.E. Mait, R. Schneider, P.J. Giardina. Low bone mineral density in adolescents with thalassemia. *Annals of the New York Academy of Science*; Cooley's Anemia 8th symposium; 2005; 1054: 462-466.
- M.G. Vogiatzi, E.A. Maclin, E.B. Fung, E. Vichinsky, N. Oliveri, J. Kwiatkowski, A. Cohen, E. Neufeld and P.J. Giardina for the Thalassemia Clinical Research Network. Prevalence of fractures among the thalassemia syndromes in North America. *Bone*, 2006; 38: 571-575.
- B. Ergun-Longmire, K. Lin-Su, A.M. Dunn, L. Chan, K. Ham, C. Sison, J. Stavola and M.G. Vogiatzi. Effects of Protease Inhibitors on Glucose Tolerance, Lipid Metabolism and Body Composition in HIV-Infected Children. *Endocrine Practice*, 2006; 12(5): 514- 521.
- A. Diaz, M.G. Vogiatzi, M.M. Sanz, and J. German. Evaluation of short stature, carbohydrate metabolism, and other endocrinopathies in Bloom's syndrome. *Hormone Research*, 2006; 66(3): 111-117.
- P. Zhou, S. Ten, S. Sinha, N. Ramchandani, **M.G. Vogiatzi** and N. Maclaren. Insulin receptor autoimmunity and insulin resistance. *Journal of Pediatric Endocrinology Metabolism*; 2008 Apr; 21(4):369-75.
- S. Ten, A. Bhangoo, N. Ramchandani, C. Mueller, **M. Vogiatzi**, M. New, M. Lesser, N. MacLaren. Characterization of insulin resistance syndrome in children and young adults. When to screen for prediabetes? *J Pediatric Endocrinology Metabolism*. 2007 Sep;20(9):989-99.

A. Diaz, S. Bandari, C. Sison and **M.G. Vogiatzi**. Characteristics of Children with Premature Adrenarche in the New York Metropolitan Area. *Hormone Research*; 2008;70 (3):150-154.

S. Ten, A. Bhangoo, N. Ramchandani, C. Mueller, **M.Vogiatzi**, M.I. New, M. Lesser and N. Maclaren. Resting energy expenditure in insulin resistance fall with decompensation of insulin secretion in obese children. *Journal of Pediatric Endocrinology Metabolism*. 2008, 21(4): 359-367.

N. Bishop, P. Braillon, J. Burnham, R. Cimaz, J. Davies, M. Fewtrell, W. Hogler, K. Kennedy, O. Makitie, Z Mughal, N. Shaw, **M. Vogiatzi**, K. Ward and M.L. Bianchi. Dual-energy X-ray absorptiometry assessment in children and adolescents with diseases that may affect the skeleton: the 2007 ISCD Pediatric Official Positions. *J Clin Densitom*. 2008 Jan-Mar;11(1):29-42.

M. G. Vogiatzi, E.A. Macklin, E.B. Fung, A.M. Cheung, E. Vichinsky, N. Olivieri, M. Kirby, J.L. Kwiatkowski, M. Cunningham, I.A. Holm, J. Lane, R. Schneider, M. Fleisher, R.W. Grady, C.C. Paterson, P.J. Giardina. Bone disease in thalassemia: a frequent and still unresolved problem. *J Bone Min Research*; 2009 Mar;24(3):543-57.

P. I. Pelavin, E. Abramson, S. Pon and **M.G.Vogiatzi**. Extended-Release Glipizide Overdose Presenting with Delayed Hypoglycemia and Treated with Subcutaneous Octreotide. *Journal of Pediatric Endocrinology Metabolism*; *Journal of Pediatric Endocrinology and Metabolism* 2009 [Feb]; 22[2]: 171-175.

J.B. Quintos, S. Krotz, **M.G. Vogiatzi**, M. Kralickova and M.I. New. Partial hypogonadotropic hypogonadism associated with the Leu266Arg and Gln106Arg mutation of the gonadotropin-releasing hormone receptor. *Journal of Pediatric Endocrinology and Metabolism*; 2009 [Feb]; 22[2]: 181-185.

R. Bargman, A. Freedman, **M. Vogiatzi**, R. Motaghedi. Autoimmune type I diabetes mellitus in a perinatally HIV infected patient with a well-preserved immune system. *J Pediatr Endocrinol Metab*. 2009 Apr;22(4):369-72.

J. Tsay, C. Pomeranz, A. Hassoun, S. O. Zandieh, J. Rutledge, **M.G. Vogiatzi**, S.E. Oberfield, R. Motaghedi, Screening Markers of Impaired Glucose Tolerance in the Obese Pediatric Population. *Hormone Research*; in press

M.G. Vogiatzi, E.A. Macklin, F.L.Trachtenberg, E.B.Fung, A.M. Cheung, E. Vichinsky, N. Olivieri , M. Kirby, J.L. Kwiatkowski, M. Cunningham, I.A. Holm, M. Fleisher, R.W. Grady, C.M. Peterson, P.J. Giardina PJ; Thalassaemia Clinical Research Network. Differences in the prevalence of growth, endocrine and vitamin D abnormalities among the various thalassaemia syndromes in North America.*Br J Haematol*. 2009 Sep;146(5):546-56. Epub 2009 Jul 13.

Research Support

Present Research Support

1K08HL088231-01A2 PI: Maria Vogiatzi

10/1/06- 07/30/11

NHLBI

“Study of Bone Disease in Thalassemia”

The project examines the effect of ineffective erythropoiesis and iron overload on the bone disease of a mouse model of Thalassemia

Past Research Support:

A trial of growth hormone alone or in combination with GnRH analogue to improve final height in patients with

Congenital Adrenal Hyperplasia

Supported by Eli Lilly; 9/98 to 6/05; \$ 20,000 annually

PI: Maria G. Vogiatzi

Co-investigator: Maria New

2U01 HL065244 PI: Giardina Role: Co-investigator
7/01/00 – 6/30/05 Direct Cost \$650,000
NIH/NHLBI;
Thalassemia Clinical Research Network – “Cross-sectional observational study of low bone mass in
Thalassemia”

5H87 MC00281-03-00 PI: Giardina Role: Consultant
9/30/03 – 9/29/06 Direct Cost \$468,000
HRSA/MCHB;
“Comprehensive Medical care for Cooley’s anemia/Thalassemia”
The goal of this project is to provide an integrated and coordinated model of comprehensive and supportive
care services to meet the needs of patients and families who experience life long medical and psychosocial
complications.

2U01 HL065244-06-10 PI: Giardina Role: Co-investigator
7/01/05 – 6/30/10 Direct Cost \$650,000
NIH/NHLBI;
New York Region Thalassemia Center
The New York Region Thalassemia Center participates in the studies conducted by the Thalassemia Clinical
Research Network (TCRN). The goals of TCRN are to promote meaningful clinical research collaboration
among its participating centers and conduct clinical trials in thalassemia

Zoltan Antal, MD

Home address: 45-37 43 street 2nd floor
Sunnyside, NY 11104

Work address: Weill Cornell Medical College
Division of Pediatric Endocrinology
505 E.70 Street HT-3
New York, NY 10021

Current position: Assistant Professor of Pediatrics

Education

Aug 1994 – Jul 1998 State University of New York at Stony Brook
Stony Brook, NY
Bachelor of Science, Awarded Cum Laude

Aug 1998 – Jun 2002 St. George's University School of Medicine
St. George's, Grenada, West Indies
Doctor of Medicine

Postdoctoral Training

Jul 2002 – Jun 2005 Resident: Pediatrics
State University of New York Downstate
Brooklyn, New York

Jul 2005 – Jun 2006 Chief Resident: Pediatrics
State University of New York Downstate
Brooklyn, NY

Jul 2006 – June 2009 Fellowship: Pediatric Endocrinology
Children's Hospital at Montefiore
Bronx, NY

Certification and Licensure

Sept 2001 ECFMG certified
Sept 2005 Licensed in New York State
Oct 2006 Diplomate, American Board of Pediatrics
Dec2009 Diplomate, American Board of Pediatric Endocrinology

Professional Societies

Endocrine Society
American Diabetes Association

Awards and Honors

2002 - G. Bourne Academic Scholarship Award, St. George's University
2005 – Pulmonary Research Award, S.U.N.Y. Downstate
2006 – Physician of the Year Award, S.U.N.Y. Downstate
2007 - Fellow's Resident Teaching Award, Children's Hospital at Montefiore
2009 – Pediatric Research Day Oral Presentation Award, Children's Hospital Montefiore
2009 – Leo M. Davidoff inductee for Outstanding Achievement in Teaching Medical Students, Albert Einstein College of Medicine

Publications

1. Antal Z, Jarchum I, DiLorenzo TP. HLA Class I supertypes in type 1 diabetic children in an urban children's hospital. NY Acad. Sci. Accepted for publication, May 2008
2. Antal Z, Zhou P. Congenital Adrenal Hyperplasia – Diagnosis, evaluation, and management. Pediatrics in Review 30:e49-e57, 2009.
3. Antal Z, Zhou P. In brief: Addison Disease. Pediatric In review 30:1-3, 2009

Abstracts and Posters

1. Antal Z, Lee TA, Poduval A, Zhou, P. Unusual presentation and treatment challenges in a 2 year old boy with functional adrenal tumor. Poster, Endocrine Society 2008.
2. Antal Z, Markowitz M, Poduval A, Lee TA, Agarwal C. Pamidronate therapy for severe hypercalcemia in an adolescent with thyrotoxicosis. Poster, Endocrine Society 2008.
3. Poduval A, Antal Z, Lee TA, Muzumdar R. Limbic encephalitis associated with ovarian teratoma in a teenage girl. Poster, Endocrine Society 2008.
4. Antal Z, Karlsson H, Saenger P. effectiveness of late growth hormone therapy (>12 years CA) in Turner Syndrome. Abstract, LWPES 2009.
5. Antal Z, Lee TA, Babila S, Markowitz M. Epidermal Nevus Syndrome and Hypophosphatemic Rickets: Secretion of a Phosphaturic Agent? Poster, Endocrine Society 2009.

Presentations / Invited Lectures

1. Invited speaker, Basic Pediatric Endocrinology for the boards. Children's Hospital at Montefiore resident lecture series, 2007.
2. Central diabetes insipidus – Pediatric endocrine case conference series, 2007.
3. Severe hypernatremia with diabetes insipidus in a teenager with CNS germinoma – Children's Hospital at Montefiore, resident lecture series, 2007.
4. Bisphosphonate therapy for fibrous dysplasia in McCune Albright Syndrome – Endocrine joint case conference series, 2007.
5. Combined severe congenital panhypopituitarism in a newborn with hypoglycemia – Endocrine joint case conference series, 2008
6. Invited speaker, Diabetic Ketoacidosis – case presentation and management conference. Albert Einstein College of Medicine, 2008.
7. Invited speaker, Familial Hypercholesterolemia – case presentation and management conference. Albert Einstein College of Medicine, 2008.
8. Invited speaker, Basic Pediatric Endocrinology for the boards. Children's Hospital at Montefiore resident lecture series, 2008.
9. Invited speaker, Ambiguous Genitalia – Children's Hospital at Montefiore, resident lecture series, 2008.
10. Endocrine Causes of Hypertension – Pediatric endocrine case conference series, 2008.
11. Functional hormone secreting adrenal tumor in a two year old with precocious puberty – Endocrine joint case conference series, 2008.
12. Epidermal nevi and hypophosphatemic rickets – Endocrine joint case conference series, 2009.
13. Fatty liver: An endocrinologist's perspective. Grand rounds presentation for the division of Pediatric Gastroenterology, February 2010
14. Management of new onset diabetes and ketoacidosis Division of Pediatrics Professor's Rounds, February 2010
15. Endocrine emergencies: Thyroid storm. Emergency medicine lecture series, Division of Pediatric Emergency medicine, March 2010

Research experience: Basic

Mentor: Teresa P. DiLorenzo, PhD.

Title: Characterization and use of human Class I HLA transgenic NOD mice in epitope mapping of insulin and islet-specific glucose 6-phosphatase catalytic subunit related peptide (IGRP)

Date: July 2007 – June 2009

Description: Project entails two main goals:

1. Using CD8+ T cells cultured from islets of Human Class I HLA transgenic NOD mice, we sought to identify antigenic epitopes of insulin and IGRP in three different HLA Class I subtypes.
2. Once identified, we tested the peripheral blood mononuclear cells (PBMC) from newly diagnosed type 1 diabetic children for reactivity to these newly identified epitopes.

Skills learned and employed:

1. Tracking and testing mice for diabetes (urine glucose testing)
2. Sacrifice of animals
3. Surgical exposure of pancreas
4. Microscope assisted collagenase perfusion of pancreas via common bile duct
5. Extraction of pancreas
6. Hand picking islet cells
7. Media culture of islets
8. T cell culture and isolation
9. Interferon gamma ELISPOT testing of T cell reactivity
10. Florescent Activated Cell Sorting (FACS)
11. Citric acid stripping
12. Splenocyte isolation
13. PCR
14. Microbead separation of T cell subsets based on cell surface markers
15. PBMC isolation from peripheral blood of patients

Current research: Clinical

1. Trialnet – NIH funded natural history study of the development of Type 1 Diabetes.
 - This is a cooperative, multicenter study looking at autoimmune markers and disease development in unaffected relatives of children with type 1 diabetes.
 - Role: Principal Investigator

2. GAIT study – CTSC funded study of lower extremity alignment, gait, and joint pathophysiology in overweight and normal weight children
 - Role: Co-investigator
 - PI: Howard J. Hillstrom, Ph.D, Hospital for Special Surgeries

3. Norditropin “ANSWER” study – Norditropin sponsored growth hormone patient registry study
 - Role: Principal Investigator

4. Continuous Glucose Monitoring in Overweight and Obese Children with Impaired Glucose Tolerance
 - This is a study aimed at identifying glucose variability in overweight and obese children with IGT using continuous subcutaneous glucose sensors
 - Role: Principal Investigator

Languages Spoken:

English and Hungarian – Fluent written, read, and spoken

Spanish – Above average, written, read, and spoken

American Sign Language – Minimal conversational signing, full use of hand spelling

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Su, Karen		POSITION TITLE Research Associate Attending Physician		
eRA COMMONS USER NAME (credential, e.g., agency login)				
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>				
INSTITUTION AND LOCATION		DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Yale University		B.A.	1989-1993	Psychology/Biology
Cornell Medical School		M.D.	1993-1997	Medicine
New York Hospital – Cornell		Residency	1997-2000	Pediatrics
New York Presbyterian Hospital – Weill Cornell		Fellowship	2000-2003	Pediatric Endocrinology

A. Personal Statement:

As a clinician and researcher, my primary area of interest has been in adrenal steroid disorders. I have had the opportunity to train under Dr. Maria New and to work closely with her as her associate in the field of Congenital Adrenal Hyperplasia (CAH) for more than ten years. I have been co-investigator in numerous CAH grants, including the NIH-funded study of the long-term outcome of patients with CAH as part of an international consortium for Rare Diseases. In addition, I was awarded a pilot grant to study bone metabolism in young adult women with CAH. I have published widely in the field of CAH and have been an invited speaker on the topic of CAH as well. I believe that my extensive experience with CAH, both as a physician and a researcher, will play a valuable role in this very interesting proposal.

B. Positions and Honors

Positions and Employment:

2003-2004 Assistant Professor of Pediatrics, Weill Cornell Medical College, New York, NY
2004-2009 Assistant Professor of Pediatrics, Mount Sinai School of Medicine, New York, NY
2009-present Research Associate / Attending Physician, Hospital for Special Surgery, New York, NY

Honors:

Pilot Project Award from the Rare Diseases Clinical Research Network grant (NIH) (July 2007-June 2009)
National Institutes of Health Research Service Award (1994)
National Merit Scholarship (1989 - 1993)
Cum Laude with Honors in Psychology/Biology at Yale University (1993)

Memberships

2003-present Member, Endocrine Society
2004-present Member, Lawson Wilkins Pediatric Endocrine Society

C Selected Peer-reviewed Publications:

Most Relevant to the current application

1. New MI, Carlson A, Obeid J, Marshall I, Cabrera MS, Goseco A, **Lin-Su K**, Putnam AS, Wei JQ, Wilson RC. Prenatal diagnosis for congenital adrenal hyperplasia in 532 pregnancies. *J Clin Endocrinol Metab.* 2001; 86: 5651-5657.
2. **Lin-Su K**, Vogiatzi MG, Marshall I, Harbison MD, Betensky B, Tansil S, New MI. Treatment with growth hormone and luteinizing hormone releasing hormone analog improves final adult height in children with congenital adrenal hyperplasia. *J Clin Endocrinol Metab.* 2005; 90: 3318-3325.
3. New MI, Ghizzoni L, **Lin-Su K**. An update of congenital adrenal hyperplasia. In *Pediatric Endocrinology (5th Edition), Volume 2*. Lifshitz. 2006
4. Nimkarn S, **Lin-Su K**, Berglind N, Wilson RC., New MI. Aldosterone-to-Renin Ratio as a Marker for Disease Severity in 21-Hydroxylase Deficiency Congenital Adrenal Hyperplasia *J Clin Endocrinol Metab* Jan;92(1):137-42, 2007
5. Nimkarn S, **Lin-Su K**, New MI. "Steroid 21 hydroxylase deficiency congenital adrenal hyperplasia" *Endocrinol Metab Clin North Am.* 2009 Dec;38(4):699-718

Additional recent publications of importance to the field

1. So A, Duffy DL, Gordon RD, Jeske YWA, **Lin-Su K**, New MI, Stowasser M. Familial hyperaldosteronism type II is linked to the chromosome 7p22 region but also shows predicted heterogeneity. *J Hypertension.* 2005; 23: 1477-1484.
2. Ergun-Longmire B, Vinci G, Alonso L, Mathew S, **Lin-Su K**, McElreavey K, New MI. Clinical, hormonal and cytogenetic evaluation of 46, XX males and review of the literature. *J Pediatr Endocrinol Metab.* 2005; 18(8): 739-748.
3. Trinh L, Nimkarn S, New MI, **Lin-Su K** Growth and Pubertal Characteristics in Patients with Congenital Adrenal Hyperplasia Due to 21-Hydroxylase Deficiency. *J Pediatr Endocrinol Metab.* 2007 Aug;20(8):883-91.
4. **Lin-Su K**, Macapagal MC, Wilson RC, New MI. Genetic disorders of the adrenal gland. In *Emery and Rimoin's Principles and Practice of Medical Genetics*. Rimoin 2007
5. **Lin-Su K**, New MI. Effect of Adrenal Steroids on the Bone Metabolism of Children with Congenital Adrenal Hyperplasia. *Ann NY Acad Sci.* 2007; 1117: 345-351.
6. **Lin-Su K**, Nimkarn S, and New MI. Congenital adrenal hyperplasia in adolescents: diagnosis and management. *Ann N Y Acad Sci.* 2008 Jun;1135:95-8.
7. Dunic M, **Lin-Su K**, Leibel NI, Ciglar S, Vinci G, Lasan R, Nimkarn S, Wilson JD, McElreavey K, New MI. Report of fertility in a woman with a predominantly 46,XY karyotype in a family with multiple disorders of sexual development. *J Clin Endocrinol Metab.* 2008; 93: 182-189.
8. **Lin-Su K**, Nimkarn S, New MI. Diagnosis and management of congenital adrenal hyperplasia. In *Pediatric, Adolescent and Young Adult Gynecology*, First edition. Altchek and Deligdische. 2008.
9. **Lin-Su K**, Nimkarn S, New MI. Congenital adrenal hyperplasia in adults. Accepted for publication in *Expert Review of Endocrinol Metab.* 2009.
10. Guevarra FM, Nimkarn S, New MI, **Lin-Su K**. Long-term growth hormone therapy in an adolescent boy with 45,X/46,XidicY(p11). *J Pediatr.* 2009; 155(5): 752-5.

D.Research Support:

Completed Research Support

U54 RR19484-03-06

PI: Maria New, MD

8/1/04-07/31/09

NCRR, ORD

The Natural History of Rare Genetic Steroid Disorders

60% Effort

An international consortium to study several rare genetic steroid disorders from conception to old age with data stored at a central data technology center; one of eight consortia funded through NIH Rare Disease Network.

Role: Co-Investigator

PI: Karen Su, MD 5/15/07-5/15/09

Pilot Award under Rare Diseases Clinical Research Network

Potential Modulatory Role of Osteoprotegerin in Bone Metabolism of Patients with 21-Hydroxylase Deficiency
15% Effort

A pilot project to determine if young adult female patients with 21OHD have higher than normal levels of OPG, thereby conferring a possible protective effect against glucocorticoid-induced bone loss.

Role: Principle investigator