

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

310-98-8669

March 15, 2004

I. EDUCATIONAL AND PROFESSIONAL HISTORY

A. List of Institutions Attended

- 1977-1983 Cairo University, School of Medicine, Cairo, Egypt; Medicine; Bachelor of Medicine & Surgery (M.B., B.Ch.), November 1983.
- 1984-1985 Cairo University Hospitals, Cairo, Egypt; House Officer, rotating internship.
- 1987-1989 Indiana University, Department of Medical Genetics, Indianapolis, Indiana, USA; Medical Genetics; Post-doctoral fellow.
- 1989 Indiana University, Department of Medical Genetics, Indianapolis, Indiana, USA; Medical Genetics; Master of Science (M.Sc.) Genetics.
- 1989-1990 University of Iowa Hospitals & Clinics, Iowa City, Iowa, USA; Pediatrics, Internship.
- 1990-1992 University of Iowa Hospitals & Clinics, Iowa City, Iowa, USA; Pediatrics, Residency.
- 1992-1993 University of Iowa Hospitals & Clinics, Iowa City, Iowa, USA; Medical Genetics, Fellow.

Certification

- 1985 Jordan Medical Council Comprehensive Test.
- 1989 ECFMG Certification.
- 1992 American Board of Pediatrics; # 48716
- 1993 American Board of Medical Genetics, Clinical Genetics; # 93078
- 1993 American Board of Medical Genetics, Clinical Cytogenetics; # 93078
- 1993 Jordanian Board of Pediatrics.

Licensure

- 1987 Jordan #5825 (Permanent).
- 1989-1992 Iowa Resident Physician License # MD-R-4213.
- 1992 Iowa License # 28647 (valid until 1/1/2006).

B. Professional and Academic Positions

- 1985-1987 Teaching Assistant of Anatomy & General Practitioner; School of Medicine, Jordan University of Science & Technology, Irbid, Jordan.
- 1993-1998 Assistant Professor of Pediatrics; Jordan University of Science & Technology, Irbid, Jordan.
- 1994-2002 Director, Cytogenetics laboratory; Jordan University of Science & Technology, Irbid, Jordan.
- 1996-2002 Clinical Geneticist; The National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan.

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- 1996-1998 Assistant Professor of Medical Laboratory Sciences; Jordan University of Science & Technology, Irbid, Jordan.
- 1998-2002 Associate Professor of Pediatrics & Medical Laboratory Sciences; Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Interim Chairman of Pediatrics; Jordan University of Science & Technology, Irbid, Jordan.
- 2003-now Associate Professor of Pediatrics; University of Iowa, Carver College of Medicine, Iowa City, Iowa, USA.

- C. Honors, Awards, Recognitions, Outstanding Achievements
- 1978 Certificate of Appreciation for excellent performance in the Premedical Studies; School of Medicine Student Association, Cairo University, Cairo, Egypt.
 - 1987 Scholarship for Pediatrics & Medical Genetics Training; Jordan University of Science & Technology, Irbid, Jordan.
 - 1992 PL-3 Teacher of the Year Award; Department of Pediatrics, University of Iowa Hospitals & Clinics, Iowa City, Iowa, USA.
 - 1996 "Human Genome" Fellowship; UNESCO/TWAS.
 - 1997-now Mentioned in "Who's Who in the World".
 - 1997 First prize for best research project; Sixth Conference of Jordan Pediatric Society, Amman, Jordan.
 - 1998-now Mentioned in "Who's Who in Science & Engineering".
 - 1998-now Mentioned in "Who's Who in Medicine & Health Care".
 - 1998 Certificate of Praise by the committee for the Abdul-Hamid Shuman Prize for the young Arab investigators, Amman, Jordan.
 - 1999-2000 Chaire Internationale de Recherche "Blaise Pascal" de l'état et de la région d'ile-de France, Paris, France. Highly competitive award with 3-4 yearly awardees (Chair Blaise Pascal scholars) since 1996, and it includes all fields of Science and Liberal Arts.
 - 2000-now Mentioned in "Who's Who in Finance & Industry".
 - 2001 Abdul-Hamid Shuman Prize in Medical Sciences for the young Arab investigators, Amman, Jordan.

II. **TEACHING**

- A. Teaching Assignments
- 1985-1987 Teaching Assistant of Anatomy (4 semesters), Anatomy for Medical, Dental & Nursing Students; Jordan University of Science & Technology, Irbid, Jordan.
 - 1993-2002 Pediatrics (outpatient clinic & inpatient care, lectures, seminars) for 5th & 6th year Medical Students & for Pediatrics residents (Clinical teaching, 20 hours / week for 46 weeks / year); Jordan University of Science & Technology, Irbid, Jordan.

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- 1995 Introduction to clinical medicine for 3rd year Medical Students (30 hours / week for 6 weeks); Jordan University of Science & Technology, Irbid, Jordan.
- 1995-1996 Human Cytogenetics (Biol 442, 3 credit hours); Department of Biology, Jordan University of Science & Technology, Irbid, Jordan.
- 1996-2002 Genetics (outpatient clinic, lectures, seminars) for 5th & 6th year Medical Students & for Pediatrics residents (Clinical teaching, 6 hours / week for 46 weeks / year); The National Center for Diabetes, Endocrinology & Genetics & Jordan University School of Medicine, Amman, Jordan.
- 1996-1997 Basic Human Genetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 1996-1997 Population Genetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 1996-1997 Cytogenetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 1998-1999 Human Cytogenetics (Biol 442, 3 credit hours); Department of Biology, Jordan University of Science & Technology.
- 2000-2001 Basic Human Genetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Advanced Cytogenetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Advanced topics in Genetics (graduate, 3 credit hours); Department of Medical Laboratory Sciences, Jordan University of Science & Technology, Irbid, Jordan.
- 2002-2003 Small group discussion in the Medical Genetics for M1 Students (12 hours / semester); Carver College of Medicine, University of Iowa, Iowa City, Iowa, USA.

B. Graduate Students Supervised

Thesis Committee Member & Examiner

- June 1994 Nahla S. El-Bayyari, MSc, Department of Public Health. The Patterns of Intra-Uterine Fetal Growth in Weight for Normal Singleton Pregnancies in Irbid City. Jordan University of Science & Technology, Irbid, Jordan.
- May 1997 Mahmoud A. Al-Bashtawi, MSc, Department of Public Health. Characteristics of Epileptic Children Attending Princess Rahma Teaching Hospital. Jordan University of Science & Technology, Irbid, Jordan.

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- June 1997 Hamid Abu-Ebiela, MSc, Department of Public Health. A Study of Mild & Moderate Handicap in Children Registered at the Special Education Centers in Northern Jordan. Jordan University of Science & Technology, Irbid, Jordan.
- May 1998 Ahmad Y.H. Abu-Dalou, MSc, Department of Anthropology. Head Shape of Adult Males as a Possible Indicator of Economic Change in Northern Jordan (1900-1978). Yarmouk University, Irbid, Jordan.
- June 1999 Fatin Y. Atrooz, MSc, Department of Biology. The Antimutagenic Effect of Coumarin on Sister Chromatid Exchange Induced by Paracetamol & Mitomycin C in Cultured Human Lymphocytes. Yarmouk University, Irbid, Jordan.
- Nov. 2000 Ayman I. Al-Jaru, MSc, Department of Medical Laboratory Sciences. Validation studies of Random Amplified Polymorphic DNA (RAPD) in human & the possibilities of its implementation in forensic casework. University of Jordan, Amman, Jordan.
- Jan. 2001 Zaid A. Abu-Rubaiha, MSc, Department of Medical Laboratory Sciences. Survey of FMF Gene Mutations in Jordan. University of Jordan, Amman, Jordan.
- Supervisor
- July 1996 Mohannad B. Al-Lahham, MSc, Department of Public Health. Normative Standards of Clinical Anthropometric Measurements for Jordanian Newborns. Jordan University of Science & Technology, Irbid, Jordan.
- June 1998 Nahla N. M. Abu-Dehies, MSc, Department of Public Health. Normative Standards of Craniofacial Measurements in Jordanian Infants. Jordan University of Science & Technology, Irbid, Jordan.
- Jan 1999 Assim Al-Khatib, MSc, Department of Medical Laboratory Sciences. Testing heterogeneity, Investigating a Common Haplotype & Fine Mapping for Progressive Pseudorheumatoid Dysplasia. Jordan University of Science & Technology, Irbid, Jordan.
- May 1999 Rula Abu-Dalu, MSc, Department of Medical Laboratory Sciences. Molecular Studies on Periodic Fever Syndromes. Jordan University of Science & Technology, Irbid, Jordan.
- June 1999 Marwan Tayeh, MSc, Department of Medical Laboratory Sciences. Clinical & Molecular Approaches to the Mapping of Congenital Pernicious Anemia in an Inbred Kindred From Jordan. Jordan University of Science & Technology, Irbid, Jordan.
- July 1999 Suhad Mohammad Hamad, MSc. Department of Medical Laboratory Sciences. Neonatal Screening for Biotinidase Deficiency in Jordan. Jordan University of Science & Technology, Irbid, Jordan [co-supervisor].
- Aug 2002 Asmaa Al-Jamali, MSc, Department of Medical Laboratory Sciences. Folic acid status among Jordanian women. Jordan University of Science & Technology, Irbid, Jordan.

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- Aug 2002 Dana Najib, MSc, Department of Medical Laboratory Sciences. Heterozygote identification of the FMF gene among Jordanians. Jordan University of Science & Technology, Irbid, Jordan.
- Jan 2003 Noor Jarboo, MSc, Department of Medical Laboratory Sciences. Allele frequency of the thermolabile variants of MTHFR gene. Jordan University of Science & Technology, Irbid, Jordan.

C. Other Contributions to Institutional Programs

- 1988-1989 Cytogenetics journal club, Indiana University, Indianapolis, Indiana, USA.
- 1989-1992 Case Conference, Morbidity & Mortality Conference, Pediatrics Residency Program, University of Iowa, Iowa City, Iowa, USA.
- 1992-1993 Medical Genetics journal club, University of Iowa, Iowa City, Iowa, USA.
- 1993-2002 Pediatrics journal club & clinical meetings, Jordan University of Science & Technology, Irbid, Jordan.
- 1997-1999 Medical Technology seminar, Jordan University of Science & Technology, Irbid, Jordan.
- 2003-now Medical Genetics journal club, University of Iowa, Iowa City, Iowa, USA.
- 2003-now Craniofacial Genetics journal club, University of Iowa, Iowa City, Iowa, USA.
- 2003-now Pediatrics morning report & grand rounds, University of Iowa, Iowa City, Iowa, USA.

II- **SCHOLARSHIP**

A. Publications and Creative Work

Peer-Reviewed Publications

- 1) El-Shanti H, Bell WE., Waziri MH. Epidermal nevus syndrome: Subgroup with neuronal migration defects. J Child Neurol 1992; 7:29-34.
- 2) TothPP, El-Shanti H, Eivins S, Rhead WJ, Klein JM. Transient improvement of congenital lactic acidosis in a male with pyruvate decarboxylase deficiency treated with dichloroacetate. J Pediatr 1993; 123:427-430.
- 3) Al-Sheyyab M, El-Shanti H, Ajlouni S, Sawalha D, Daoud AS. The clinical spectrum of Henoch-Schonlein purpura in infants and young children. Eur J Pediatr 1995;154:969-972.
- 4) Mears AJ, El-Shanti H, Murray JC, McDermid HE, Patil SR. Minute supernumerary ring chromosome 22 associated with cat eye syndrome: Further delineation of the critical region. Am J Hum Genet 1995; 57:667-673.
- 5) Al-Sheyyab M, El-Shanti H, Ajlouni S, Batieha A, Daoud AS. Henoch-Schonlein Purpura: Clinical experience and contemplation on a streptococcal association. J Trop Pediatr 1996; 42:200-203.

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- 6) Daoud AS, Al-Kaysi F, El-Shanti H, Batieha A, Obeidat A, Al-Sheyyab M. Neural tube defects in Northern Jordan. *Saudi Med J* 1996; 17:78-81.
- 7) Daoud AS, Al-Sheyyab M, Abu Ekteish F, Obeidat A, Ali AA, El-Shanti H. Neonatal meningitis in northern Jordan. *J Trop pediatr* 1996; 42:267-270.
- 8) Al-Sheyyab M, El-Shanti H, Todd D, Shurman A. Autosomal recessive lamellar ichthyosis and acute lymphoblastic leukemia. *Eur J Hum Genet* 1996; 4:105-107.
- 9) Daoud AS, Al-Sheyyab M, Al-Qudah A, Khouri-Bulos N, El-Shanti H. An outbreak of Poliomyelitis in Jordan: Clinical observations. *Indian Pediatr* 1997; 34:51-54.
- 10) El-Shanti H, Omari HZ, Qubain HI. Progressive pseudorheumatoid dysplasia: Report of a family and review. *J Med Genet* 1997; 34:559-563.
- 11) El-Shanti H, Khasawneh M, Hulsburg D, Major H, Patil S. A rare case of a liveborn with free, de novo and partial trisomy 12 and an unusual phenotype. *Ann Genet* 1997; 40:175-180.
- 12) El-Shanti H, Murray JC, Semina EV, Buetow KH, Scherpbier T, Al-Alami J. The assignment of the gene responsible for progressive pseudorheumatoid dysplasia to chromosome six and examination of COL10A1 as a candidate gene. *Eur J Hum Genet* 1998; 6:251-256.
- 13) Al-Sheyyab M, El-Shanti H, Daoud AS, Gharabieh N, Ektiesh F. Fanconi anemia and hypothyroidism. *Ann Saudi Med* 1998; 18:58-59.
- 14) El-Shanti H, Al-Lahham MB, Batieha A. Normative standards of trunk and limb anthropometric measurements for Jordanian newborns. *Saudi Med J* 1998; 19:702-706.
- 15) Al-Rimawi H, Al-Sheyyab M, Batieha A, El-Shanti H, Abukteish F. The effect of desferroxamine in acute hemolytic anemia of G-6-PD deficiency. *Acta Hematologica* 1999; 101:145-148.
- 16) Majeed HA, Rawashdeh M, El-Shanti H, Qubain H, Khuri-Bulos N, Shahin HM. Familial Mediterranean Fever in children: the expanded clinical profile. *Q J Med*, 1999; 92:309-318.
- 17) Hurvitz JR, Suwairi WM, Van Hul W, El-Shanti H, Superti-Furga A, Roudier J, Holderbaum D, Pauli RM, Herd JK, Hul EV, Rezai-Delui H, Legius E, Le Merrer M, Al-Alami J, Bahabri SA, Warman ML. Mutations in the CCN gene family member WISP3 cause progressive pseudorheumatoid dysplasia. *Nat Genet* 1999; 23:94-98.
- 18) El-Shanti H, Daoud AS, Batieha A. A clinical study of a large inbred kindred with pure familial spastic paraplegia. *Brain Dev* 1999; 21:478-482.
- 19) El-Shanti H, Al-Salem M, El-Najjar M, Ajlouni K, Beck J, Sheffield VC, Stone EM. A nonsense mutation in the retinal-specific guanylate cyclase gene is the cause of Leber congenital amaurosis in a large inbred kindred from Jordan. *J Med Genet* 1999; 36:862-865.
- 20) Jarrah NS, El-Shanti H, Shennak MM, Ajlouni KM. Wolfram syndrome in triplets with newly recognized features. *Ann Saudi Med* 1999; 19:132-134.
- 21) Alkhateeb A, Al-Alami J, Leal SM, El-Shanti H. Fine mapping of progressive pseudorheumatoid dysplasia: A tool for heterozygote identification. *Genetic Testing* 1999; 3:329-333.

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- 22) Al-Sheyyab M, Batieha A, El-Shanti H, Daoud A. Henoch-Schonlein purpura and streptococcal infection: a prospective case-control study. *Ann Trop Paediatr* 1999; 19:253-5.
- 23) El-Shanti H, Lidral A, Jarrah N, Druhan L, Ajlouni K. Homozygosity mapping identifies an additional locus for Wolfram syndrome on 4q. *Am J Hum Genet* 2000; 66:1229-1236
- 24) Al-Sheyyab M, Daoud AS, El-Shanti H. Chediak-Higashi syndrome: A report of eight cases from three families. *Indian Pediatr* 2000; 37:69-75.
- 25) Sadiq MF, Khabour OF, El-Shanti HE, Samawi HM. The effect of trifluoperazine on the genotoxicity of Bleomycin in cultured human lymphocytes. *Drug Chem Toxicol* 2000; 23:361-369.
- 26) El-Shanti H, Al-Lahham MB, Batieha A. Craniofacial anthropometric measurements in a population of normal Jordanian newborns. *J Med Liban* 2000; 48:23-28.
- 27) Sadiq MF, Zaghaf MH, El-Shanti H Induction of chromosomal aberrations by the rhodium(III) complex cis-[Rh(biq)(2)Cl(2)]Cl in cultured human lymphocytes. *Mutagenesis*. 2000; 15:375-378.
- 28) Majeed HA, El-Shanti H, Al-Rimawi H, Al- Masri N. On mice and men: An autosomal recessive syndrome of chronic recurrent multifocal osteomyelitis and congenital dyserythropoietic anemia. *J Pediatr*. 2000; 137:441-442.
- 29) Jarrah N, El-Shanti H, Kheir A, Obeidat FN, Haddidi A, Ajlouni K. Familial disorder of sex determination in seven individuals from three related sibships. *Eur J Ped* 2000; 159:912-8.
- 30) Al-Sheyyab M, Jarrah N, Younis E, Shennak MM, Haddidi A, Awidi A, El-Shanti H, Ajlouni K. Bleeding tendency in Wolfram Syndrome : A newly identified feature with phenotype / genotype correlation. *Eur J Ped* 2001; 160:243-246.
- 31) Wang K, Pugh EW, Griffin S, Doheny KF, Mostafa WZ, Al-aboosi MM, El-Shanti H, Gitschier J. Homozygosity mapping places the acrodermatitis enteropathica gene on chromosome 8q24.3. *Am J Hum Genet* 2001; 68:1055-1060.
- 32) Mahafza T, El-Shanti H, Omari H. Raine syndrome: Report of a case with hand and foot anomalies. *Clin Dysmorph* 2001; 10:227-229.
- 33) Majeed HA, Al-Tarawna M, El-Shanti H, Kamel B, Al-Khalialeh F. The syndrome of chronic recurrent multifocal osteomyelitis and congenital dyserythropoietic anemia. Report of a new family and a review. *Eur J Ped* 2001; 160:705-710.
- 34) Hiyasat D, Dehyyat MA, Ajlouni S, Mubaidin A, Till M, Hadidi A, El-Shanti H, Ajlouni KM. Cerebellar hypoplasia, Hypergonadotrophic hypogonadism, Retinitis pigmentosa, Alopecia, Microcephaly, Psychomotor retardation, and short stature: "D-CHRAMPS Syndrome". *Eur J Ped* 2002; 161:170-172.
- 35) Al-Jaberi TM, El-Shanti H. Diversity in polyp pathology and distribution of Familial Juvenile Polyposis Syndrome. *Saudi Med J* 2002; 23:328-331.
- 36) Majeed HA, El-Shanti H, Al-Khateeb MS, Abu Rabihah ZA. Genotype / phenotype correlations in Arab patients with Familial Mediterranean Fever. *Semin Arthritis Rheum* 2002; 31:371-376

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- 37) Ajlouni K, Jarrah N, Al-Khateeb M, El-Zaheri M, El-Shanti H, Lidral A. Wolfram syndrome: Identification of a phenotypic and genotypic variant from Jordan. *Am J Med Genet* 2002, 115:61-65.
- 38) Al-Alami J, Tayeh M, Al-Sheyyab M, El-Shanti H: Linkage analysis of a large inbred family with autosomal recessive vitamin B12 deficiency. *Saudi Med J* 2002, 23:1251-1256.
- 39) El-Shanti H, Al-Alami J. The pattern of peripheral blood chromosomal abnormalities in Northern Jordan. *Saudi Med J* 2002, 23:1552-1554.
- 40) El-Shanti H, Ahmad M, Ajlouni K. Alopecia universalis congenita, XY gonadal dysgenesis, and laryngomalacia: A novel autosomal recessive disorder. *Eur J pediatr* 2003, 162:36-40.
- 41) Daoud AS, Batieha A, Bashtawi M, El-Shanti H. Risk factors for childhood epilepsy: A case-control study from Irbid, Jordan. *Seizure* 2003,12:171-174.
- 42) Al-Alami JR, Tayeh MD, Najib DA, Abu-Rubaiha ZA, Majeed HA, Al-Khateeb MS, El-Shanti HI. Familial mediterranean fever mutation frequencies and carrier rates among a mixed Arabic population. *Saudi Med J* 2003, 24:1055-1059.
- 43) Jbour A, Mubaidin A, Till M, El-Shanti H, Hadidi A, Ajlouni KM. Hypogonadotrophic hypogonadism, short stature, cerebellar ataxia, rod-cone retinal dystrophy, and hypersegmented neutrophils: A novel disorder or a new variant of Boucher-Neuhauser syndrome. *J Med Genet* 2003, 40:e2.
- 44) Shegem NS, Alsheek Nasir AM, Batieha AM, El-Shanti H, Ajlouni KM. Effects of short term Metformin administration on androgens in Diabetic Men. *Saudi Med J* 2004, 25:75-78.
- 45) Haddidi A, Jarrah N, Al-Till M, El-Shanti H, Ajlouni K. Radiologic findings in Wolfram syndrome. *Saudi Med J* 2004; in press.

Non-peer reviewed publications

- 1) El-Shanti H. An Approach to a Child with Single or Multiple Congenital Anomalies. *The Pediatric Bulletin* 2001, Amman, Jordan.
- 2) El-Shanti H. The impact of genetic diseases on Jordanians: Strategies towards prevention. *Journal of biomedicine & biotechnology* 2001; 1:46-48.
- 3) El-Shanti H. Familial Mediterranean Fever. *Saudi Med J* 2001; 22:104-109.
- 4) El-Shanti H. Familial Mediterranean Fever and Renal Disease. *Saudi J Kidney Dis Transplant* 2003; 14:378-385.

Books

None

Chapters

- 1) El-Shanti H, Familial Mediterreanean Fever. In: *NORD Guide to Rare Disorders*, Lippincott, Williams & Wilkins, Philadelphia, PA; 2003; p:19.
- 2) El-Shanti H, Hereditary Spastic Paraplegia. In: Eisen A (Vol Ed): *Motor Neuron Diseases*. In: Daube J & Mauguiere F (Ser Eds): *Handbook of Clinical Neurophysiology*. Elsevier, in press.

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Published Abstracts

- 1) El-Shanti H, Moore C, Hanson JW: Epidemiology of microcephaly in rural and urban populations. Proceedings of the Greenwood Genetics Center 1993; 12:116-117. [XIII David W. Smith Workshop on Malformations and Morphogenesis. Winston-Salem, North Carolina, USA. August 1992.]
- 2) Thomson E, El-Shanti H, Weiss L, Keech R, Hanson JW: Clinical and epidemiologic observations on the association of infantile glaucoma and Turner syndrome. Teratology 1993; 47:398. [Teratology Society Meeting, Tuscon, Arizona, USA. Jun, 1993]
- 3) El-Shanti H, Hulseburg D, Murray JC, Patil SR: A three generation minute supernumerary ring 22: Association with cat-eye syndrome. Am J Hum Genet 1993; 53 (suppl):A126. [American Society of Human Genetics Annual Meeting, New Orleans, Louisiana, USA. Oct, 1993]
- 4) Murray JC, El-Shanti H, Lindgren C, Leysens N, Patil SR, Zabel B, Alward W, Stevenson T, Bitoun P, Buetow K: Combined mapping approaches to Rieger syndrome. Am J Hum Genet 1993; 53 (suppl):A141. [American Society of Human Genetics Annual Meeting, New Orleans, Louisiana, USA. Oct, 1993]
- 5) El-Shanti H, Daoud AS: A clinical study of a large inbred kindred with autosomal recessive familial spastic paraplegia. Am J Hum Genet 1995; 57 (suppl):A480. [American Society of Human Genetics Annual Meeting, Minneapolis, Minnesota, USA. Oct, 1995]
- 6) El-Shanti H, Murray JC, Semina EV, Buetow KH, Scherpbier T, Al-Alami J, Al-Khatib A: The assignment of the gene responsible for progressive pseudorheumatoid dysplasia to the long arm of chromosome six and examination of COL10A1 as a candidate gene. Am J Hum Genet 1997; 61 (suppl):A274. [American Society of Human Genetics Annual Meeting, Baltimore, Maryland, USA. Oct, 1997]
- 7) El-Shanti H, Ajlouni K, Jarrah N, Druhan A, Lidral A: Clinical and genetic heterogeneity of Wolfram syndrome. Am J Hum Genet 1998; 63 (suppl) A567. [American Society of Human Genetics Annual Meeting, Denver, Colorado, USA. Oct, 1998]
- 8) El-Shanti H, Ajlouni K, Jarrah N, Druhan A, Lidral A: The identification of a second Wolfram syndrome locus: Further evidence of locus heterogeneity. Proceedings of the Greenwood Genetics Center. [XX David W. Smith Workshop on Malformations and Morphogenesis. Schlangenbad, Germany. August 1999.]
- 9) Tayeh M, Al-Alami J, Al-Sheyyab M, El-Shanti H: Linkage analysis of a large inbred family with autosomal recessive vitamin B12 deficiency. Am J Hum Genet 1999; 65 (suppl):A430. [American Society of Human Genetics Annual Meeting, San Francisco, California, USA. Oct, 1999]
- 10) AlKhateeb A, Al-Alami J, El-Shanti H: DNA based testing for carrier identification for progressive pseudorheumatoid dysplasia to be used in premarital counseling. Am J Hum Genet 1997; 65 (suppl):A211. [American Society of Human Genetics Annual Meeting, San Francisco, California, USA. Oct, 1999]
- 11) Warman ML, Hurvitz JR, Suwairi WM, Van Hul W, El-Shanti H, Superti-Furga A, Roudier J, Holderbaum D, Pauli RM, Herd JK, Hul EV, Rezai-Delui H, Legius E, Le

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Merrer M, Bahabri SA. International progressive pseudorheumatoid dysplasia Consortium: Progressive pseudorheumatoid dysplasia (PPD) is caused by mutation in the CCN gene family member WISP3. Am J Hum Genet 1997; 65 (suppl):A48. [American Society of Human Genetics Annual Meeting, San Francisco, California, USA. Oct, 1999]

- 12) El-Shanti HE, Majeed HA, Al-Khateeb M: Mutation analysis of the MEFV gene in the Jordanian population. Clin Exp Rheumatol 2000; 18:283 (C-2). [Familial Mediterranean Fever, II International Conference, Antalya, Turkey. May, 2000]
- 13) Majeed HA, El-Shanti HE, Al-Khateeb M: Genotype / phenotype correlations in Arab patients with Familial Mediterranean Fever: A preliminary study. Clin Exp Rheumatol 2000; 18:284 (C-5). [Familial Mediterranean Fever, II International Conference, Antalya, Turkey. May, 2000]
- 14) Tayeh M, Majeed HA, Al-Masri N, Al-Rimawi H, Pelet A, Munnich A, Lyonnet S, El-Shanti HE. Assignment of the gene responsible for chronic recurrent multifocal osteomyelitis and congenital dyserythropoietic anemia to the short arm of chromosome 18 and examination of TGIF as a candidate gene. Am J Hum Genet 2000; 67 (suppl):A1809. [50th American Society of Human Genetics Annual Meeting, Philadelphia, Pennsylvania, USA. Oct, 2000]
- 15) El-Shanti HE, Al-Khateeb M, Abu Rabihah Z, Tayeh M, Pelet A, Munnich A, Lyonnet S, Majeed HA: Mutation Analysis, Genotype - Phenotype Correlation and Carrier Frequency of FMF in the Jordanian Population. Am J Hum Genet 2000; 67 (suppl):A2234. [50th American Society of Human Genetics Annual Meeting, Philadelphia, Pennsylvania, USA. Oct, 2000]
- 16) Wang K, Pugh EW, Griffin S, Doheny KF, Mostafa WZ, El-Shanti H, Gitschier J: The acrodermatitis enteropathica gene maps to chromosome 8q24. Am J Hum Genet 2000; 67 (suppl):A1813. [50th American Society of Human Genetics Annual Meeting, Philadelphia, Pennsylvania, USA. Oct, 2000]
- 17) El-Shanti H. Genetics of FMF: An overview. Clin Exp Rheumatol 2002; 20:S-68 (L-7). [FMF2002, Third international conference on familial mediterranean fever and hereditary inflammatory disorders. La Grande Motte, France. Sept. 2002]
- 18) El-Shanti HE, Tayeh M, Majeed HA, Al-Khateeb M, Pelet A, Munnich A, Lyonnet S. Assignment of the gene responsible for chronic recurrent multifocal osteomyelitis and congenital dyserythropoietic anemia to the short arm of chromosome 18 and examination of TGIF as a candidate gene. Clin Exp Rheumatol 2002; 20:S-74 (A-23). [FMF2002, Third international conference on familial mediterranean fever and hereditary inflammatory disorders. La Grande Motte, France. Sept. 2002]
- 19) Ferguson PJ, Chen S, Ochoa LA, Bing X, El-Shanti H. Mutations in *LPIN2* cause a bone autoinflammatory disorder. 12th International congress of Immunology and 4th Annual Conference of FOCIS. Montreal, Canada. July, 2004.

Unpublished Abstracts

- 1) Al-Khateeb M, Majeed HA, El-Shanti HE: Distribution of MEFV gene mutations in the Jordanian population. [Familial Mediterranean Fever, II International Conference, Antalya, Turkey. May, 2000]

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B. Areas of Research Interest and Current Projects

- 1) Gene mapping and positional cloning of human autosomal recessive disorders
- 2) Genetic epidemiology of malformations
- 3) Genetics of the process of non-disjunction
- 4) Mutation analysis of *MEFV*

C. Published reviews of scholarship

None

D. Grants Received

- 1995-1997 Molecular studies of G-6-PD deficiency, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 10,000 JDs.
- 1995-1997 Genetic epidemiology of multifactorial disorders & traits, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 4,900 JDs.
- 1995-1998 Normative standards of growth & clinical anthropometric measurements for Jordanian children, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 4,000 JDs.
- 1996-1999 Gene mapping of autosomal recessive familial spastic paraplegia, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 3,000 JDs.
- 1997-1999 Gene mapping of autosomal recessive disorders & traits, PI. Higher council for Science & Technology, Amman, Jordan; 4,000 JDs.
- 1997-2000 Homozygosity mapping of genes for craniofacial anomalies, Consultant, 1 RO3 DE12533-01 National Institutes of Health; \$14,000.
- 1999-2001 Homozygosity mapping of autosomal recessive disorders, PI. Chaire Internationale de Recherche "Blaise Pascal" de l'état et de la region d'ile-de France, Paris, France; 1.3 million French Francs.
- 2001-2002 Population supplementation of folic acid in Jordan, PI. Higher council for Science & Technology, Amman, Jordan; 6,000 JDs.
- 2002-2002 Folic acid status amongst Jordanian women, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 3,600 JDs.
- 2002-2002 Heterozygote identification of the FMF gene among Jordanians, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 2,900 JDs.
- 2002-2002 Allele frequency of the thermolabile variants of MTHFR gene, PI. Jordan University of Science & Technology, Deanship of Scientific Research, Irbid, Jordan; 2,600 JDs.

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

2004-2006 Role of *LPIN2* in CRMO, Children Miracle Network, \$ 40,000, 2/1/2004 to 2/1/2006, Co-PI, 10%, no salary support.

E. Invited Lectures

Lectures, Workshop Presentations and Media Presentation

- 1994 Chromosomal abnormalities, The Jordanian Medical Association, Amman, Jordan.
- 1994 Invited panelist, Jordanian Television panel discussion on “premarital testing & counseling”
- 1995 Introduction to genetic disorders, Workshop on Genetics & Genetic diseases, Business & Professional Women Club & UNICEF, Amman, Jordan.
- 1995 Dissection of multifactorial disorders, Fourth Jordanian French Medical Congress on Genetics & Genetic diseases, Jordanian French Medical Association, Amman, Jordan.
- 1995 Medical Genetics in Jordan, Service du Genetique Medicale, INSERM U393, paris, France.
- 1996 Mapping of autosomal recessive disease genes utilizing inbred Jordanian families, Workshop on Gene mapping in isolated populations, American Society of Human Genetics Annual Meeting, San Francisco, California, USA.
- 1996 Mapping of autosomal recessive disorder genes utilizing inbred populations, Laboratory of Statistical Genetics, Rockefeller University, New York, NY, USA.
- 1997 Guest, Jordanian Radio question & answer on “genetic disorders” (2 episodes)
- 1997 Chromosomal disorders & prenatal diagnosis, The Jordanian Society of Obstetricians & Gynecologists, Amman, Jordan.
- 1997 Invited panelist, Jordanian Television panel discussion on “biological cloning” (2 episodes)
- 1997 Chromosomal disorders, The Jordanian Medical Association, Zarqaa, Jordan.
- 1997 Invited panelist, Jordanian Radio panel discussion on “genetic diseases & birth defects”
- 1998 Molecular methods in genetic disorders & their diagnosis, workshop on the application of molecular biology in diagnostics & forensics, Al-Amal Center, Amman, Jordan.
- 1998 Neurogenetic disorders, The Jordanian Society for Neuroscience, Amman, Jordan.
- 1998 Introduction to inborn Errors of Metabolism, Neonatology seminars at Jordan University Hospital & Swiss Tropical Institute, Amman, Jordan.
- 1999 Molecular biology in forensic medicine, Workshop on Forensic Medicine, Amman, Jordan

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

- 1999 Genetics of Wolfram syndrome amongst Jordanians, National Center for Diabetes, Endocrinology & Genetics conference on Diabetes & Obesity, Amman, Jordan.
- 1999 Genetics for the clinician, Workshop. The National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan.
- 2000 Mutation analysis of the MEFV gene in the Jordanian population, R.K.H. pediatric symposium "Molecular Genetics for the Clinician", Riyadh, Saudi Arabia.
- 2000 A family with the True hermaphroditism, seminar on Sex determination problems. Necker-Enfants Malades, Paris, France.
- 2000 Conference de cloture, Chaire International de Recherche "Blaise Pascal", Ecole de Medecine, Paris, France. "Genetic disorders amongst the Jordanians: Strategies towards prevention.
- 2000 Progressive pseudorheumatoid dysplasia & chronic recurrent multifocal osteomyelitis: Genetic disorders mimicking rheumatic disorders, Laboratoire d'Immuno-Rheumatologie, Faculte de Medicine de Marseille, Marsielle, France.
- 2000 Genetic disorders amongst the Jordanians: Strategies towards prevention, Second Pan Arab Congress of Diabetes & Endocrinology & the 10th International Clinical Genetics Seminar, Amman, Jordan.
- 2000 Temporary advisor for the World Health Organization. International collaborative research on craniofacial anomalies. Geneva, Switzerland.
- 2001 Guest speaker, Jordanian TV show, "consanguinity", Amman, Jordan.
- 2001 Temporary advisor for the World Health Organization. International collaborative research on craniofacial anomalies. WHO meeting on the prevention of craniofacial anomalies. Park City, Utah, USA.
- 2001 Rare syndromes, Jordan Pediatric Society, Amman, Jordan.
- 2001 Guest, Jordan T.V. program "Your Physician", Issues in pediatrics, Amman, Jordan.
- 2002 Recombinant DNA technology, National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan.
- 2002 The different approaches to understand the genetic component of Diabetes etiology, 3rd meeting on Genetics & Registry of Diabetes in Saudi Arabia, Riyadh, Saudi Arabia.
- 2002 The burden of genetic disorders on the Jordanians, Ministry of Health & WHO, Workshop on community control of genetic disorders, Amman, Jordan.
- 2002 Folic acid status amongst Jordanian women of child bearing age: a preliminary study. National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan.
- 2002 Genetics of FMF, FMF2002, Third international conference on familial mediterranean fever & hereditary inflammatory disorders, La Grande Motte, France.

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

- 2003 Les Tables Rondes des chaires internationales de recherche "Blaise Pascal", Continuite et Evolution, Paris, France.
- Local Conference presentations and organization
- 1994 Association of Infantile Glaucoma & Turner Syndrome: Clinical & Epidemiologic Observations, Eight Scientific day, Jordan University of Science & Technology, Irbid, Jordan.
- 1995 coordinator, Fourth Jordanian French Medical Congress on Genetics & Genetic diseases, Jordanian French Medical Association, Amman, Jordan
- 1996 Normative standards of anthropometric measurements in Jordan, The First International Medical Congress, Amman, Jordan.
- 1997 Mapping of the Autosomal Recessive Progressive Pseudorheumatoid Dysplasia & Examination of a Candidate Gene, Eleventh Scientific day, Jordan University of Science & Technology, Irbid, Jordan.
- 1997 Mapping of autosomal recessive disease causing genes utilizing inbred Jordanian families, Eighth Arab conference of clinical biology & first Jordanian conference of medical laboratory sciences. Amman, Jordan.
- 1997 Mapping of the autosomal recessive progressive pseudorheumatoid dysplasia: Evidence of homogeneity, Sixth conference of Jordan Pediatric Society. Amman, Jordan.
- 1998 Mapping & gene identification of rare autosomal recessive disorders utilizing inbred Jordanian families, Twelfth Scientific day, Jordan University of Science & Technology, Irbid, Jordan.
- 1998 Member, scientific committee, First International Conference of the Faculty of Medicine, University of Jordan & The Third International Conference of the German-Arab Medical Association, Amman, Jordan.
- 1999 Member, scientific committee, Seventh conference of the Jordanian Pediatric Society in association with the The Cystic Fibrosis Association, Amman, Jordan
- 1999 Al-Alami J, El-Shanti H: Screening for biotinidase deficiency in Jordanian children suffering from seizures: results of a one-year pilot study, The Thirteenth Scientific day, Jordan University of Science & Technology, Irbid, Jordan.
- 1999 Local abstract, The Seventh conference of Jordanian Pediatric Society/Cystic Fibrosis Association, Amman, Jordan. "Tayeh M, Al-Alami J, Al-Sheyab M, El-Shanti H: Linkage analysis of a large inbred family with autosomal recessive vitamin B12 deficiency"
- 1999 Local abstract, The Seventh conference of Jordanian Pediatric Society/Cystic Fibrosis Association, Amman, Jordan. "AlKhateeb A, Al-Alami J, El-Shanti H: DNA based testing for carrier identification for progressive pseudorheumatoid dysplasia to be used in premarital counseling.

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

- 1999 Local abstract, The Seventh conference of Jordanian Pediatric Society/Cystic Fibrosis Association, Amman, Jordan. "Abu-Dalo R, Abdul-Majeed H, Al-Alami J, El-Shanti H: Clinical, immunological & molecular studies on period fever syndromes.
- 2000 Member, preparatory & scientific committees, Second Pan Arab Congress of Diabetes & Endocrinology & the 10th International Clinical Genetics Seminar, Amman, Jordan
- 2000 Mutation Analysis, Genotype - Phenotype Correlation & Carrier Frequency of FMF in the Jordanian Population, The Eighth conference of Jordanian Pediatric Society, Amman, Jordan.
- 2000 Local abstract, Second Pan Arab Congress of Diabetes & Endocrinology & the 10th International Clinical Genetics Seminar, Amman, Jordan. El-Shanti HE, Al-Khateeb M, Abu Rabihah Z, Tayeh M, Majeed HA: Mutation Analysis of FMF in the Jordanian Population.
- 2000 Homozygosity Mapping Identifies a New Locus for Wolfram Syndrome, Second Pan Arab Congress of Diabetes & Endocrinology & the 10th International Clinical Genetics Seminar, Amman, Jordan.
- 2001 Contributor, London Dysmorphology & Neurogenetics Database.
- 2001 Organizer, Workshop on Molecular Biology, National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan
- F. Pending Decisions
- 3/1/2004 1 RO1 DK067554-02, Characterization of LPIN2 & Its Role in Inflammation
- 6/1/2004 1 RO3 AR051149-01 (needs revision and resubmission), Identification of mutations in MEFV gene

IV. SERVICE

A. Offices held in professional organizations

Editorship

- 1999- now Editorial board member, International Journal of Biomedicine & Biotechnology.
- 2001-2002 Editorial Board Member, Saudi Medical Journal.

Reviewer

- 1998 Saudi Medical Journal, Saudi Arabia.
- 1999 Journal of Medical Genetics, UK
- 2000 Journal of Royal Medical Services, Jordan.
- 2001 National Research Council and Institute of Medicine, USA

Collegiate and University Committees

- 1993-1997 Member, Committee for Medical School Library, Jordan University of Science & Technology, Irbid, Jordan.

COLLEGE OF MEDICINE CURRICULUM VITAE

Hatem El-Shanti

- 1993-1994 Member, Mortality & Morbidity Committee, School of Medicine, Jordan University of Science & Technology, Irbid, Jordan.
- 1996-1997 chairman, Committee for Medical School Library, Jordan University of Science & Technology, Irbid, Jordan.
- 1998-1999 Member, committee for Scientific Research, School of Medicine, Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Member, committee for Medical School curriculum, Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Member, committee of Medical Records, King Abdullah University Hospital, Jordan University of Science & Technology, Irbid, Jordan.
- 2000-2001 Member, committee of Medical Staff Professional Fees, King Abdullah University Hospital, Jordan University of Science & Technology, Irbid, Jordan.

National committees

- 1996-1998 Member AD HOC committee for the establishment of the National Center for Diabetes, Endocrinology & Genetics, Amman, Jordan.
- 1997-1998 Member, advisory committee for the practice of genetics-related procedures & Technology. Amman, Jordan.
- 2000-2002 Member, committee of The Jordanian Board of Pediatrics Examination, The Jordanian Medical Council, Amman, Jordan.
- 2002 Member, advisory committee for the practice of assisted reproduction. Amman, Jordan.

Professional Affiliations

- 1985-now Jordan Medical Association.
- 1988-now American Society of Human Genetics.
- 1992-now American Association for the Advancement of Science.
- 1993-now American College of Medical Genetics.
- 1993-now American Academy of Pediatrics.
- 1994-now The Jordan Pediatric Society.
- 1995-now European Society of Human Genetics.

B. Clinical Assignments since last promotion

- 12 outpatient half day clinics at UIHC / year.
- 12 outpatient whole day Regional outreach clinics / year.
- 60 consult days / year.