

## SUSAN HASSED, PhD

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### EDUCATION:

2009-2012	University of Oklahoma Health Sciences Center, Oklahoma City Department of Pathology PhD in Pathology
1987-1989	University of Colorado Health Sciences Center, Denver MS, Biophysics and Genetics with emphasis in Genetic Counseling
1981-1986	University of Colorado at Colorado Springs BA, Biology
1972-1973	Cornell College, Mt. Vernon, Iowa No degree; major Art/Theatre

### PROFESSIONAL EXPERIENCE:

2006-Present	Clinical Associate Professor of Pediatrics University of Oklahoma Health Sciences Center Oklahoma City, Oklahoma
2003-Present	Director Master of Science in Genetic Counseling Program
1999-2006	Clinical Assistant Professor of Pediatrics Senior Genetic Counselor University of Oklahoma Health Sciences Center Oklahoma City, Oklahoma
1996-1999	Instructor University of Arkansas for Medical Sciences College of Health-Related Professions Little Rock, Arkansas
1994-1999	Lead Genetic Counselor University of Arkansas for Medical Sciences Department of Pediatrics Little Rock, Arkansas
1990-1994	Genetic Counselor Arkansas Children's Hospital Little Rock, Arkansas
1991-1999	Technologist, Cytogenetics Laboratory Arkansas Children's Hospital; and Database manager, Myeloma and Transplantation Research Center Arkansas Cancer Research Center
1989-1990	Genetic Counselor, Faculty University of South Florida

- 1987-1989            Cytogenetic Technician  
                          photography  
                          karyotyping  
                          design and implement patient management software  
Cytogenetics Laboratory  
University of Colorado Health Sciences Center  
Denver, Colorado
- 1987-1989            Special project – Regional Studbook for African and  
                          Asian Wild Asses  
Kansas City Zoological Garden  
Kansas City, Missouri
- 1984-1989            Sanctuary Manager/Administrative Assistant  
Canyon Colorado Equid Sanctuary, owner William Gruenerwald  
Wagon Mound, New Mexico with business office in Colorado Springs,  
Colorado
- 1974-1989            Beginning position – File Clerk  
Final position – Computer operations manager  
William Gruenerwald & Associates, Inc.  
Colorado Springs, Colorado

**PROFESSIONAL ORGANIZATIONS:**

- American Society of Human Genetics – 1991 to present  
American Board of Genetic Counseling – 1993 to present  
Association of Genetic Counseling Program Directors – 2000 to present  
    Nominating Committee – 2006  
National Society of Genetics Counselors – 1989 to present  
    Professional Issues sub-committee  
    Editorial Board for *Journal of Genetic Counseling*, 2001-2003  
    Co-Chair of the International SIG  
Oklahoma Genetics Advisory Council  
    Executive Committee 2004 – present  
    Chair of Nominating Committee – 2006  
    Education Committee (Genetics Education Committee of Oklahoma, Inc.) 1999 - present  
    Chair to 2005  
Transnational Alliance for Genetic Counseling – 2006 to present  
Great Plains Clinical Genetics Society – President, 1994-95  
Great Plains Genetics Services Network  
    Education committee and newsletter editor; 1991 –1994  
    Executive committee; 1995  
Oklahoma State Department of Health – Genetic Counseling Licensure Advisory Committee  
American Association of Zoological Parks and Aquariums (AAZPA), 1984-1989

**UNIVERSITY SERVICE:**

- OUHSC Graduate College – internal reviewer for MS in Dosimetry Program, February 2013  
Clinical and Translational Science summer students program – review applications, 2013  
OUHSC Graduate College – faculty marshal for OU Commencement-Norman, 5-10-2013

## **CERTIFICATION AND LICENSURE:**

American Board of Medical Genetics – 1990  
American Board of Genetic Counseling – Charter member, 1993  
Oklahoma State Department of Health – Licensed Genetic Counselor, 7-17-2007, license #2

## **BIBLIOGRAPHY:**

**Publications:** All were published, copyrighted, and distributed to appropriate zoological institutions

1. A Computer Analysis of Studbook Data for the Przewalski Horse, Suppl. I. 1985.
2. A Computer Analysis of Studbook Data for the Grevy's Zebra, Vol I and II. 1996.
3. A Computer Analysis of Studbook Data for the Hartmann Zebra. 1987.
4. A Computer Analysis of Studbook Data for the African Wild Asses. 1988.
5. A Computer Analysis of Studbook Data for the Asiatic Wild Asses. 1988.
6. North American Regional Studbook for Asiatic and African Wild Asses. 1990.

## **Articles:**

1. Sawyer JR, Rowe R, **Hassed SJ**, Cunniff C. High-resolution cytogenetic characterization of telomeric associations in ring chromosome 19. *Hum Genet* 91:42-44;1993.
2. **Hassed SJ**, Miller CH, Pope SK, Murphy P, Quirk Jr JG, Cunniff C. Perinatal lethal conditions: The effect of diagnosis on decision making. *Obstet Gynecol* 82:37-42;1993.
3. Cunniff C, Kirby RS, Senner JW, Canino C, Brewster MA, Butler B, **Hassed SJ**, Murphy P. Deaths associated with renal agenesis: A population-based study of birth prevalence, case ascertainment, and etiologic heterogeneity. *Teratology* 50:200-204;1994.
4. Cunniff C, **Hassed SJ**, Hendon AE, Rickert VI. Health care utilization and perceptions of health among adolescents and adults with Turner syndrome. *Clin Genet* 48:17-22;1995.
5. **Hassed SJ**, Kincannon JM, Arnold GL. Clouston syndrome: Reclassified. *Am J Med Genet* 61:274-276;1996.
6. Rickert VI, **Hassed SJ**, Hendon AE, Cunniff C. The effects of peer ridicule on depression and self-image among adolescent females with Turner syndrome. *J Adol Health* 19:34-38,1996.
7. Quirk Jr. JG, Fortney J, Collins II HB, West J, **Hassed SJ**, Wagner C. Outcomes of newborns with gastroschisis: The effects of mode of delivery, site of delivery, and interval from birth to surgery. *Am J Obstet Gynecol* 174:1134-1140;1996.
8. Sawyer JR, Lukacs JL, **Hassed SJ**, Arnold GL, Mitchell HF, Muenke M. Sub-band deletion of 7q36.3 in a patient with ring chromosome 7: Association with holoprosencephaly. *Am J Med Genet* 65:113-116;1996.
9. Sawyer JR, Swanson CM, Lukacs JL, **Hassed SJ**, Curtis MA, North PE, Kozlowski KJ, Pihoker C. Telomeric fusion and chromosome instability in multiple tissues of a patient with mosaic Ullrich-Turner syndrome. *Am J Med Genet* 69:383-387;1997.

10. **Hassed SJ**, Shewmake K, Teo C, Curtis M, Cunniff C. Shprintzen-Goldberg syndrome with osteopenia and progressive hydrocephalus. *Am J Med Genet* 70:450-453;1997.
11. Cunniff C, Curtis MA, **Hassed SJ**, Hoyme HE. Blepharophimosis: A causally heterogeneous malformation frequently associated with developmental disabilities. *Am J Med Genet* 75:52-54;1998.
12. **Hassed SJ**, Genetic counseling in the new century. *Oklahoma County Medical Society Bulletin*. April, 2001.
13. **Hassed SJ**, Genetic Counseling. *Oklahoma State Medical Journal*, October 2003; 96:111.
14. Li S, **Hassed S**, Mulvihill JJ, Nair AK, Hopcus DJ: Double trisomy. *Am J Med Genet* 124A:96-98, 2004.
15. **Hassed SJ**, Hopcus-Niccum D, Zhang L, Li S, Mulvihill JJ. A new genomic duplication syndrome complementary to the velocardiofacial (22q11 deletion) syndrome. *Clin Genet*. 2004; 65:400-404.
16. Casas KA, Mononen TK, Mikail CN, **Hassed SJ**, Li S, Mulvihill JJ, Lin HJ, Falk RE. Chromosome 2q terminal deletion: report of 6 new patients and review of phenotype-breakpoint correlations in 66 individuals. *Am J Med Genet. Part A*. 130A:331-339, 2004.
17. Purandare SM, Lee J, **Hassed S**, Steele MI, Blackett PR, Mulvihill JJ, Li S. Ring chromosome 9 [4(9)(p24q34)]: a report of two cases *Am J Med Genet A*. Oct 15;138A(3):229-35, 2005.
18. **Hassed SJ**, Wiley GB, Wang S, Lee JY, Li S, Xu W, Zhao ZJ, Mulvihill JJ, Robertson J, Warner J, Gaffney PM. *RBPJ* mutations identified in two families affected by Adams-Oliver Syndrome. *Am J Hum Genet*. 91(2):391-395. 2012.

### Abstracts:

1. Torres M, Ranells J, Mueller OT, **Hassed SJ**. Meiosis I error in familial trisomy 21. *Am J Hum Genet Suppl* 47:239A;1990.
2. **Hassed SJ**, Cunniff CM. Counseling issues following diagnosis of bilateral renal agenesis. *Am J Hum Genet Suppl* 49:218;1991.
3. **Hassed SJ**, Miller CH, Murphy P, Quirk JG Jr, Cunniff CM. Pregnancy outcome in prenatally diagnosed lethal conditions. *Clin Research* 39:860A;1991.
4. **Hassed SJ**, Sawyer JF, Griebel MK, Cunniff CM. Trisomy 20 mosaicism and pigmentary abnormalities. *Clin Research* 40:817A;1992.
5. Cunniff CM, **Hassed SJ**, Hendon AE, Rickert VI. Health status and health care utilization in adolescents and adults with Turner syndrome. *Am J Hum Genet Suppl* 53:420A;1993.
6. Cunniff CM, Kirby RS, Senner JW, Canino C, Brewster M, Butler B, **Hassed SJ**. Renal agenesis/dysgenesis: A population-based study of birth prevalence, case ascertainment and etiologic heterogeneity. *Clin Res* 41:790A;1993.
7. **Hassed SJ**, Kincannon JM, Arnold GL. Hidrotic ectodermal dysplasia in four generations – a variation of Clouston syndrome or a new hair-nail dysplasia? *Am J Hum Genet Suppl*. 55:460;1994.
8. **Hassed SJ**, Shewmake K, Teo C, Cunniff C, Curtis MA. Shprintzen-Goldberg syndrome with neonatal fractures and childhood onset of ventriculomegaly. *Am J Hum Genet Suppl*. 57:502;1995.

9. Friedman BD, Cunniff CM, **Hassed SJ**, Hoyme HE. Congenital presentation of neurofibromatosis, type I, in four unrelated cases supports a role for neurofibromin during early morphogenesis. *Am J Hum Genet Suppl.* 57:483;1995.
10. **Hassed SJ**, Poling BA, Vandersalm T, Curtis MA. Tricho-rhino-phalangeal syndrome type III, a distinct entity. *Am J Hum Genet Suppl.* 61:559;1997.
11. Curtis MA, **Hassed SJ**, Wagner CW, Gibson JB. Bannayan-Riley-Ruvalcaba syndrome, toward a greater understanding. *Am J Hum Genet Suppl.* 61:336;1997.
12. Fjelstad KA, **Hassed SJ**, Mulvihill JJ. Brauer nevus (congenital temporal triangular alopecia) with distichiasis and adjacent facial hyperpigmentation in an African American male. *Am J Hum Genet Suppl.* 67:675; 2000.
13. Li S, **Hassed SJ**, Mulvihill JJ, Nair AK. Double trisomy. *Am J Hum Genet Suppl.* 67:780; 2000.
14. **Hassed SJ**, Hoppcus-Niccum D, Zhang L, Li S, Mulvihill JJ. A familial interstitial duplication of 22q11.2 with distinct craniofacial and digital anomalies. *Am J Hum Genet Suppl.* 71:733; 2002.
15. **Hassed SJ**, Mumm C, Reed A, Kohl R, Mulvihill JJ. Registry of pregnancies exposed to chemotherapeutic agents. *Am J Hum Genet Suppl.* 73(5):144; 2003. Platform presentation at the annual meeting of the American Society of Human Genetics, November 6, 2003.
16. Overcash HA, **Hassed SJ**, Wilson PL, Lee J, Li S, Mulvihill JJ. Subtle unbalanced t(2;14)(p25;q32) uncovered by subtelomeric FISH in a patient with congenital anomalies. *Am J Hum Genet Suppl.* 73(5):592; 2003.
17. **Hassed SJ**, Vaz SA, Lee J, Mulvihill JJ, Li S. Further elucidation of the duplication 22q syndrome. *Am J Hum Genet Suppl.* 75:740; 2004.
18. Purandare SM, Lee J, **Hassed SJ**, Steele MI, Blackett PJ, Mulvihill JJ, Li S. Ring chromosome 9 [r(9)(p24q34)]: a report of two cases. *Am J Hum Genet Suppl.* 75:922; 2004.
19. **Hassed SJ**, Lee J, Li S, Seely JR. Update on the dup(22q) syndrome and expansion of the clinical phenotype. *Am J Hum Genet Suppl* 76:498;2005.
20. Lee J, Sebastian N, **Hassed SJ**, Seely JR, Mulvihill JJ, Li S. Microdeletion and Microduplication of Chromosome 22q11.2: Four-Years Experience. *Am J Hum Genet Suppl* 76:764;2005.
21. Weedn AE, **Hassed SJ**, Mulvihill JJ. Licensure of genetic counselors: lessons learned in Oklahoma *Am J Hum Genet Suppl* 76:1223;2005.
22. Daly C, Mester J, **Hassed SJ**, Li S, Casas K. Complex chromosome 10q rearrangement with terminal deletion in a patient with multiple congenital anomalies. *Am J Hum Genet Suppl* 76:601;2006.
23. Chaloner JL, Lee J, **Hassed SJ**, Li S, Mulvihill JJ. Instability of microdeletion characterized by array CGH: a case study. *American College of Medical Genetics Annual Meeting.* Poster 249;2008.
24. **Hassed SJ**, Hallford HG. An empirical investigation of mathematical and probabilistic literacy. *National Society of Genetic Counselors Annual Meeting.* Poster 2008.
25. Hamm J, Sandefer M, **Hassed SJ**, Mulvihill JJ. Effects of chemotherapy during the third trimester on the newborn. *American College of Medical Genetics Annual Meeting.* Platform 56;2009.

26. **Hassed SJ**, Wiley GB, Wang S, Lee J, Li S, Xu W, Zhao ZJ, Mulvihill JJ, Robertson J, Gaffney PM. Adams-Oliver syndrome, identification of a putative causal gene using exome sequencing. *American College of Medical Genetics Annual Meeting*. Abstract 58:2011.

### **Presentations:**

“Genetics Update,” University-Based Perinatal Seminar, Little Rock, AR, November 1, 1991.

“Basic Genetics for Nurses,” Arkansas Children’s Hospital, Little Rock, AR, November 22, 1991.

“The Genetics of Hearing Impairment,” Office of Hearing, Speech and Vision Services of the Arkansas Department of Health, Little Rock, AR, May 8, 1992.

“Advances in the Understanding of Cystic Fibrosis,” Arkansas Genetics Program 10<sup>th</sup> Anniversary Conference, Little Rock, AR, October 15, 1993.

“The Process of Genetic Counseling and Implications for Genetic Testing,” Psychosocial Forum, Arkansas Children’s Hospital, Little Rock, AR, May 2, 1994.

“The Human Genome Project and Gene Therapy Innovation,” Tenth Annual Statewide Mathematics and Science Leadership Conference, University of Central Arkansas, Conway, AR, July 27, 1995.

“ABCs of Clinical Genetics, Including Fetal Alcohol Syndrome,” Western Arkansas Education Service Cooperative Workshop, Coleman Junior High School, Van Buren, AR, August 9, 1995.

“How to identify families at risk for Genetic Disorders” for the CSHCN Social Workers, September, 1999.

“Counseling Clients after Abnormal Results are Known – Chronic Sorrow” lecture for Session D of the 15<sup>th</sup> Annual Public Health Nursing Conference, October 15, 1999.

“Principles of Medical Genetics, Genetic Counseling and Genetic Resources” as part of the *1999 Genetics Update*. December 3, 1999.

“Genetics consultation and counseling – The facts; the Web” as part of the *Genetics Update – 2000*. September 16, 2000.

“Identifying those in need of genetic services/what is a genetic evaluation” as part of *HuGem II*. September 22, 2000.

“Gene testing, gene therapy, etc.” panel discussion as part of *The Decade of the Brain*. September 29, 2000.

“The Human Genome Project and the Brain” part of panel discussion for the monthly Neuro Night presented to lay audiences by the Oklahoma Center for Neuroscience, October 17, 2000.

“Ethical, Social and Legal Issues” as part of *The New Genetics and Genetic Issues for Health Care Professionals and Consumers* conference by the Genetics Education Committee of Oklahoma in Altus, OK on April 6, 2001.

“Advances in Genetics and the Implications for Clinical Service” as part of *The New Genetics and Genetic Issues for Health Care Professionals and Consumers* GECO workshop in McAlester, OK 6-1-01, Woodward 9-7-01, Ardmore 11-2-01, Norman 2-8-02, Lawton 4-5-02, Elk City 6-7-02, Tahlequah 9-13-02, Durant 2-14-03, Muskogee 4-11-03.

“Genetics in clinical practice” as part of *The New Genetics and Cancer Family Syndromes for Health Care Professionals and Consumers* GECCO workshop in Oklahoma City, June 4, 2003.

“Registry of pregnancies exposed to chemotherapeutic agents” platform presentation at the American Society of Human Genetics national meeting in Los Angeles, November 2003.

“Familial cancer, when is it hereditary?” as part of Building a Family Legacy, 15<sup>th</sup> Annual Community cancer Wellness Retreat 2008. November 15, 2008.

### **Teaching:**

“General Genetics and the Clinical Relevance to Hearing Impairment” lecture as part of a one-semester course for graduate students in Audiology at UALR. 1991-1997.

“General Genetics” lecture as part of the Medical Problems in Child Development for graduate students in the Early Childhood Special Education program through UALR. 1992-1995.

“Ethical Considerations in Presymptomatic Testing for Huntington’s Disease” lecture as part of the Ethics for Allied Health Professionals through the College of Health Related Professions at UAMS. 1993.

Workshop Coordinator for the Medical Genetics course for first year medical students at UAMS. 1994.

Genetic Counseling lecture as part of the Medical Genetics course for first year medical students at UAMS. 1996-1998.

Workshop in Genetics for public school educators at UAMS, 1997.

Family History/Pedigree Construction for pre-matriculation workshop for incoming medical students at UAMS. 1998.

Inheritance Patterns and Evaluation of the ENT Patient for ENT residents at UAMS. 1998.

Principles of Genetic Counseling for residents at University of Oklahoma Health Sciences Center (OUHSC), March 1999.

“Conditions Caused by Triplet Repeat Expansions (Clinical)” lecture for the Neurobiology of Disease course of the OUHSC Oklahoma Center for Neuroscience, Fall, 1999-2010.

Principles of Genetic Counseling and Social Issues for seminar students at Oklahoma Christian University, February 19, 2001.

Principles of Genetics and Genetic Counseling for special education masters students at University of Central Oklahoma, 2001-2009.

Principles of Genetic Counseling and Social Issues for nursing students at Oklahoma Baptist University, 2001-2009.

Genetic Counseling and Social Issues of DNA Testing for the Molecular Pathology Conference, May 29, 2001.

Clinical Aspects of Genetic Disorders for third semester PNP students at OUHSC and Tulsa, 2001-2002.

The Genetic Basis of Cleft Lip and Palate for Orthodontic graduate students and dental students. 2008-2012.

Genetics in Clinical Practice for Physical Therapy students at OUHSC. September 2009.

Genetics in Clinical Practice for Masters in Special Education at University of Central Oklahoma, 2010-2011.

Genetics in Clinical Practice for Nurses at Oklahoma Baptist University. 2010-2011.

Coordinate coursework for Masters of Science in Genetic Counseling program including providing lectures, producing midterm and examinations, grading and student counseling, beginning August 2003.

Developed Master's of Science in Genetic Counseling Training Program, University of Arkansas for Medical Sciences, including:

- Program description/demonstration of need

- Program requirements

- Curriculum

- Obtained approval through State Board of Higher Education

- Developed class outlines and obtained approval for six unique courses

Development and implementation Master of Science in Genetic Counseling Program, University of Oklahoma Health Sciences Center, including:

- Program description/demonstration of need

- Program requirements

- Curriculum

- Obtained approval through State Board of Higher Education

- Developed class outlines and obtained approval for unique courses

- Obtain accreditation** as a Recognized New Program through the American Board of Genetic Counseling in 2003

- Begin implementation of program, August 2003

- Participate in MAGEC (consortium with AR, KS, NE) by coordinating/developing four web-based courses for GCs (2004 to 2009)

The Genetic Basis of Cleft Lip and Palate. Presented to orthodontic students yearly during spring semester 2006 to the present.

Genetics in Clinical Practice for PT students – September 26, 2011.