BIOGRAPHICAL SKETCH

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

NAME	POSITION TITLE
H. Eugene Hoyme	Professor and Chief, Division of Medical Genetics, Mosbacher Family Distinguished Packard Fellow, Department of Pediatrics, Stanford University School of Medicine

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Augustana College, Sioux Falls, SD	BA, Summa cum laude	1972	Biology/Chemistry
The University of Chicago, Pritzker School of Medicine	M.D.	1976	Medicine
The University of California, San Diego School of Medicine	Internship and Residency in Pediatrics	1979	Pediatrics
The University of California, San Diego School of Medicine	Fellowship in Clinical Genetics/Dys- morphology	1981	Clinical Genetics and Dysmorphology

A. Positions and Honors. List in chronological order previous positions, concluding with your present position. List any honors. Include present membership on any Federal Government public advisory committee.

Assistant Professor: Department of Pediatrics The University of Vermont College of Medicine, Burlington, VT

Professional Positions

1981-1986

1986-1997	Assistant Professor/Associate Professor/Professor (with tenure); Chief, Section of Medical and Molecular
	Genetics; Associate Head; Department of Pediatrics, The University of Arizona College of Medicine, Tucson,
	AZ
1997-presen	t Professor; Chief, Division of Medical Genetics; Associate Chair for Academic Affairs, Department of Pediatrics,
	Stanford University School of Medicine, Stanford, CA
1998-presen	t Clinical Professor; Division of Medical Genetics, Department of Pediatrics, University of California, San
	Francisco, School of Medicine, San Francisco, CA
2000-presen	t Program Director, UCSF/Stanford Medical Genetics Residency Program
2004-presen	Mosbacher Family Distinguished Packard Fellow, Lucile Packard Children's Hospital at Stanford

Awards and Honors

Teacher of the Year Award, The University of Vermont College of Medicine, Burlington, 1985; Teacher of the Year nomination-Clinical and Basic Sciences, The University of Arizona College of Medicine, 1988; Teacher of the Year nomination-Basic Sciences, The University of Arizona College of Medicine, Tucson, 1989, 1996; Vernon and Virginia Furrow Award for Excellence in Graduate Education or Graduate Medical Education Teaching, The University of Arizona College of Medicine, Tucson, 1991; Dean's List for Excellence in Teaching in the Basic Sciences, The University of Arizona College of Medicine, Tucson, 1993; Teacher of the Year nomination—Clinical Sciences, The University of Arizona College of Medicine, Tucson, 1994; Nomination, Alwin C. Rambar-James B.D. Mark Award for Excellence in Patient Care, Stanford University School of Medicine, 2002; Alumni Achievement Award, Augustana College, Sioux Falls, SD, 2002.

Science Review and Advisory Committees

Ad hoc Review Committees, March of Dimes Birth Defects Foundation and National Institute of Child Health and Human Developmet (NICHD)

Publications (Total 105) Partial listing since 2003

Casper RC, Fleisher BE, Lee JC, Gilles A, Debattista A, and **Hoyme HE**: Follow-up of children of mothers with major depressive disorder, exposed or not exposed to antidepressant drugs during pregnancy. J Pediatrics 142:402-408, 2003.

Holve S, Friedman BD, **Hoyme HE**, Tarby TJ, Johnstone S, Erickson RP, Clericuzio CL, and Cunniff C: Athabascan brainstem dysgenesis syndrome. Am J Med Genet 120A:169-173, 2003.

Adam MP, Clericuzio CL, Manning MA, Beck AE, Kwan A, Enns GM and **Hoyme HE**: Fetal outcome in failed first trimester medical abortion: Report of four cases of methotrexate/misoprostol embryopathy. Am J Med Genet 123A: 72-78, 2003.

Toriello HV, Carey JC, Addor MC, Allen W, Burke L, Chun N, Dobyns W, Elias E, Gallagher R, Hordijk R, **Hoyme HE**, Irons M, Jewett T, LeMerrer M, Lubinsky M, Martin R, McDonald-McGinn D, Neumann L, Newman W, Pauli R, Seaver L, Tsai A, Wargowsky D, Williams M, Zackai E: Toriello-Carey syndrome: Delineation and review. Am J Med Genet 123A: 84-90, 2003.

Turner G, Lower KM, White SL, Delatycki M, Lampe AK, Wright M, Clayton Smith J, Kerr B, Schelley S, **Hoyme HE**, DeVries BBA, Kleefstra T, Grompe M, Cox B, Gecz J and Partington M: The clinical picture of the Börjeson–Forssman-Lehmann syndrome in males and heterozygous females with PHF6 mutations. Clin Genet 65: 226-232, 2004.

Manning MA, Cunniff CM, Colby CE, El-Sayed YY and **Hoyme HE**: Neu-Laxova syndrome: Detailed prenatal diagnostic and post-mortem findings and literature review. Am J Med Genet 125A: 240-249, 2004.

Schwarze U, Hata R, McKusick VA, Shinkai H, **Hoyme HE**, Pyeritz RE, Byers PH: Rare autosomal recessive cardiac valvular form of Ehlers-Danlos Syndrome results from mutations in the COL1A2 gene that activate the nonsense-mediated RNA decay pathway. Am J Hum Genet 74: 917-930, 2004.

May PA, Gossage JP, White-Country M, Goodhart K, DeCoteau S, Trujillo P and **Hoyme HE**: Alcohol consumption and other maternal risk factors for fetal alcohol syndrome among three distinct samples of women before, during, and after pregnancy: The risk is relative. Am J Med Genet 127C:.10-20, 2004

Manning MA, Cassidy SB, Clericuzio C, Cherry AM, Schwartz S, Hudgins L, Enns GM and **Hoyme HE**: Terminal 22q deletion syndrome: A newly recognized cause of speech and language disability in the autism spectrum. Pediatrics 114: 451-457, 2004.

Hoyme HE, May PA, Kalberg WO, Kodituwakku P, Gossage JP, Trujillo PM, Buckley DG, Miller JH, Aragon AS, Khaole N, Viljoen DL, Jones KL and Robinson LK: A practical clinical approach to diagnosis of fetal alcohol spectrum disorders: Clarification of the 1996 Institute of Medicine criteria. Pediatrics 115: 39-47, 2005.

Slavotinek A, Goldman J, Weisiger K, Kostiner D, Golabi M, Packman S, Wilcox W, **Hoyme HE** and Sherr E: Marinesco-Sjögren syndrome in a male with mild dysmorphism. Am J Med Genet 133A:197-201, 2005.

Johnston JJ, Olivos-Glander I, Killoran C, Elson E, Turner JT, Peters KF, Abbott MH, Aughton DJ, Aylsworth AS, Bamshad MJ, Booth C, Curry CJ, David A, Dinulos MB, Flannery DB, Fox MA, Graham JM, Grange DK, Guttmacher AE, Hannibal MC, Henn W, Hennekam RC, Holmes LB, **Hoyme HE**, Leppig KA, Lin AE, Macleod P, Manchester DK, Marcelis C, Mazzanti L, McCann E, McDonald MT, Mendelsohn NJ, Moeschler JB, Moghaddam B, Neri G, Newbury-Ecob R, Pagon RA, Phillips JA, Sadler LS, Stoler JM, Tilstra D, Walsh Vockley CM, Zackai EH, Zadeh TM, Brueton L, Black GC and Biesecker LG.: Molecular and Clinical Analyses of Greig Cephalopolysyndactyly and Pallister-Hall Syndromes: Robust Phenotype Prediction from the Type and Position of GLI3 Mutations. Am J Hum Genet 76:609-22, 2005.

Beck AE, Hudgins L and **Hoyme HE:** Autosomal dominant microtia and ocular coloboma: New syndrome or extension of the oculo-auriculo-vertebral spectrum? Am J Med Genet 134:359-62, 2005.

Hoyme HE: (Letter). Response regarding: A practical clinical approach to diagnosis of fetal alcohol spectrum disorders: Clarification of the 1996 Institute of Medicine criteria. Pediatrics 115:1787-1788, 2005.

Wyatt JW, Frias JL, **Hoyme HE**, Jovanovic L, Kaaia R, Brown F, Garg S, Lee-Parritz A, Seely, EW, Kerr L, Mattoo V and Tan M: Congenital anomaly rate in infants of mothers with pre-gestational diabetes who used insulin lispro during pregnancy. Diabetic Medicine 22:803-807. 2005.

Adam MP, Hennekam RC, Keppen LD, Bull MJ, Clericuzio CL, Burke LW, Guttmacher AE, Ormond KE and **Hoyme HE**: Marshall-Smith Syndrome: Natural history and evidence of an osteochondrodysplasia with connective tissue abnormalities. Am J Med Genet 137A:117–124, 2005.

Lin RJ, Chen KC, Cherry AM, **Hoyme HE**, Lyons M and Hudgins L: Terminal deletion of 6p results in a recognizable phenotype. Am J Med Genet 136A(2):162-168, 2005.

Adam MP, Chueh J, El-Sayed YY, Stenzel A, Vogel H, Weaver DD and **Hoyme HE**: Vascular-type disruptive defects in fetuses with homozygous alpha-thalassemia: Report of two cases and review of the literature. Prenat Diagn 25(12):1088-96, 2005.

Viljoen DL, Gossage JP, Adnams C, Jones KL, Robinson LK, **Hoyme HE**, Snell C, Khaole N, Asante KK, Findlay R, Quinton B, Brooke LE and May PA: The epidemiological characteristics of fetal alcohol syndrome in a South African community of the Western Cape Province: Findings from a second active case ascertainment study. J Studies Alcohol 66(5):593-604, 2005.

Hoyme HE: (Letter) Refining the diagnostic criteria of FASD. J FAS Int 3:e18, 2005.

Spagnolo PA and **Hoyme HE**: Fetal alcohol spectrum disorders: Practical clinical evaluation and diagnosis. Ital J Pediatr 31:244-253, 2005.

Shieh JTC, Hudgins L, Cherry AM, Shen Z and **Hoyme HE**: Triplication of 8p22-8p23 in a patient with features similar to Kabuki syndrome. Am J Med Genet 140(2):170-173, 2006.

Autti-Rämö I, Fagerlund Å, Ervalahti N, Korkman M and **Hoyme HE**: Fetal alcohol spectrum disorders in Finland: Clinical delineation of 77 older children and adolescents. Am J Med Genet A 140(2):137-43, 2006.

McDonald-McGinn DM, Reilly A, Wallgren-Pettersson C, **Hoyme HE**, Yang SP, Adam MP, Zackai EP and Sullivan KE: Malignancy in chromosome 22q11.2 deletion syndrome (DiGeorge syndrome/velocardiofacial syndrome). Am J Med Genet A 140:906-9, 2006.

Shieh JTC, Aradhya S, Manning MA, Cherry AM, Brumblay J, Seaver LH, Salpietro CD, Bernardini L, Novelli A, Dallapiccola B and **Hoyme HE**: Nablus mask-like facial syndrome is caused by a microdeletion of 8q detected by array-based comparative genomic hybridization. Am J Med Genet A 140:1267-73, 2006.

May PA, Fiorentino D, Gossage JP, Kalberg WO, **Hoyme HE**, Robinson LK, Coriale G, Jones KL, del Campo M, Tarani L, Romeo M, Kodituwakku PW, Deiana L, Buckley D and Ceccanti M: The epidemiology of FASD in a province in Italy: Prevalence and characteristics of children in a random sample of schools. Alcohol Clin Exp Res 30:1562-1575, 2006.

Shieh JTC, Swidler P, Balboni I, Kaplan J, Kennedy J, Abdul-Rahman O, Enns GM, Martignetti JA, Ramirez MCM, Sandborg C, Slavotinek A, and **Hoyme HE**: Expanding the clinical phenotype of systemic hyalinosis: A distinctive rheumatologic disorder characterized by mutations in the capillary morphogenesis-2 (CMG2) gene. Pediatrics 118(5):e1485-92.

Khuu PT, Duncan KO, Kwan A, **Hoyme HE** and Bruckner AL: Unilateral aquagenic wrinkling of the palms associated with aspirin intake. Arch Dermatol 142:1661-62, 2006.

Kalberg WO, Provost B, Tollison SJ, Tabachnick BJ, Robinson LK, **Hoyme HE**, Trujillo P, Buckley D, Aragon A and May PA: A comparison of motor delays in young children with fetal alcohol syndrome, with alcohol exposure, and with no alcohol exposure. Alcohol Clin Exp Res 30(12):2037-45, 2006.

Manning MA and **Hoyme HE**: Fetal alcohol spectrum disorders: A practical clinical approach to diagnosis. Neuroscience and Biobehavioral Rev (in press).

Ceccanti M, Spagnolo A, Tarani L, Chessa L, Mancinelli R, Stegagno M, Attilia L, Sasso GF, Romeo M, Jones KL, Robinson LK, del Campo M, Gossage JP, May PA and **Hoyme HE**: Clinical delineation of fetal alcohol spectrum disorders (FASD) in Italian children: Comparison and contrast with other racial/ethnic groups and implications for treatment and prevention. Neuroscience and Biobehavioral Rev (in press).

May PA, Gossage JP, Marais AS, Adnams CM, **Hoyme HE**, Jones KL, Robinson LK, Khaole NC, Snell C, Kalberg WO, Hendricks L, Brooke L, Stellavato C and Viljoen DL: The epidemiology of fetal alcohol syndrome and partial FAS in a South African community. Drug Alcohol Depend (in press).

Moore E, Ward R, Flury Wetherill L, Rogers JL, Autti-Rämö I, Jacobson S, Mattson S, Jones KL, Robinson LK, **Hoyme HE** and Foroud T: Unique facial features distinguish fetal alcohol syndrome patients and controls in diverse ethnic populations (submitted).

Ervalahti N, Korkman M, Fagerlund Å, Autti-Rämö I, Loimu L, **Hoyme HE**: Relationship between dysmorphic features and general cognitive function in children with fetal alcohol spectrum disorders. (Submitted).

Kodituwakku PW, Kalberg WO, Aragon AS, **Hoyme HE**, Robinson LK And May PA: Resistance to extinction predicts social-behavioral problems in children with fetal alcohol spectrum disorders. (submitted).

Casper RC, Gaylor E, Fleisher BE, Baran J, Gilles A, DeBattista A and **Hoyme HE**: Third trimester and continuous gestational exposure compared to first trimester pregnancy exposure to serotonin reuptake inhibitors (SSRIs) is associated with neonatal adjustment problems and with motor changes in infancy. (submitted).

Battaglia A, **Hoyme HE**, Manning MA, Hudgins L, Enns GM, Cherry AM, Carey JC: Expanded phenotype and natural history of the 1p36 deletion syndrome (submitted).

C. Research Support. List selected ongoing or completed (during the last three years) research projects (federal and non-federal support). Begin with the projects that are most relevant to the research proposed in this application. Briefly indicate the overall goals of the projects and responsibilities of principal investigator identified above.

National Institute on Alcohol Abuse and Alcoholism (NIAAA): "Fetal Alcohol Syndrome Epidemiology Prevention and Research." Philip A. May, Ph.D., P.I. The Center on Alcoholism, Substance Abuse and Addiction, University of New Mexico, Albuquerque. Dysmorphology subcontract. October 1, 2001-. (15% effort).

Goals of the Project: 1. To determine the prevalence of fetal alcohol spectrum disorders (FASD) in Native American populations in the upper Great Plains, Washington DC and the Western Cape Province of South Africa. 2. To design targeted prevention programs for fetal alcohol spectrum disorders in the above populations and to measure their efficacy.

Dr. Hoyme's role: 1. Dysmorphology examination of the at risk children to determine diagnostic category assignment in the spectrum of FASD. 2. Education of local health care providers in the recognition and diagnosis of children and adults with FASD.

Hawaii Department of Health/Hawaii Genetics Consortium: "Hawaii Community Genetics: A Collaborative Program for Provision of Genetics Services." H. Eugene Hoyme, MD, P.I. June 1, 2003-. (5% effort).

Goals of the Project: Development of a comprehensive community based Program of genetics health care provision and education for the population of the State of Hawaii.

Dr. Hoyme's role: 1. Development of methodology for provision of genetics services. 2. Administrative oversight of the Program. 3. Provision of a portion of the direct health care and education provided by the Program.

National Institute on Alcohol Abuse and Alcoholism (NIAAA): "Collaborative Initiative on Fetal Alcohol Spectrum Disorders." Kenneth Lyons Jones, M.D., P.I., Dysmorphology Core. University of California, San Diego. Dysmorphology subcontract. September 30, 2003-. (10% effort.).

Goals of the Project: Establishment of an international consortium of projects investigating fetal alcohol spectrum disorders. The Dysmorphology Core provides standardized diagnostic services to all clinical projects in the Consortium.

The Oxnard Foundation: "Identification of Predictors of Fetal Alcohol Spectrum Disorders in Infancy." H. Eugene Hoyme, MD, Pl. July 1, 2006- (5% effort).

Goals of the Project: Determination of predictors of fetal alcohol spectrum disorders in infancy in a high risk population in Upington, South Africa.

National Institute on Alcohol Abuse and Alcoholism (NIAAA): "Fetal Alcohol Syndrome Epidemiology Prevention and Research." Philip A. May, Ph.D., P.I. The Center on Alcoholism, Substance Abuse and Addiction, University of New Mexico, Albuquerque. Dysmorphology subcontract. July 1, 2006--. (5% effort).

Goals of the Project: 1. To determine the prevalence of fetal alcohol spectrum disorders (FASD) in the Western Cape Province of South Africa. 2. To design targeted intervention and prevention programs for fetal alcohol spectrum disorders in the above population and to measure their efficacy.

Dr. Hoyme's role: 1. Dysmorphology examination of the at risk children to determine diagnostic category assignment in the spectrum of FASD. 2. Education of local health care providers in the recognition and diagnosis of children and adults with FASD.