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ASSOCIATE RESEARCH SCIENTIST, COLLEGE OF PUBLIC HEALTH,  
ADJUNCT ASSOCIATE PROFESSOR, DEPARTMENT OF ANTHROPOLOGY,  
ADJUNCT ASSOCIATE PROFESSOR, DEPARTMENT OF COMMUNITY & BEHAVIORAL HEALTH, AND  
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**EDUCATION**

Ph.D. Anthropology, University of Illinois at Urbana-Champaign, Urbana, Illinois, 1988

Dissertation Title: *The biological significance of the Melanesian Gm distribution: Selection and the Gm-hypothesis.* Dissertation Chair: Eugene Giles, Ph.D.

A.M. Anthropology, University of Illinois at Urbana-Champaign, Urbana, Illinois, 1980

Paper Title: *A re-examination of the evidence for demographic equilibrium among Australian hunter-gatherers.*

Advisor: Linda Klepinger, Ph.D.

B.A. Anthropology (*with Honors*), University of Iowa, Iowa City, Iowa, 1977

Thesis Title: *The detection of altered collagen in cooked bone.*

Advisors: Holmes Semken, Jr., Ph.D. (Geology); Richard Shulter, Jr., Ph.D. (Anthropology)

**PROFESSIONAL INTERESTS**

Human biology, biological/biomedical anthropology, research design, quantitative methods, population health, evolutionary theory, craniofacial development and morphology, translational research, clinical and community-based research, the Internet, Oceania and rural United States

**PROFESSIONAL EXPERIENCE**

2004-pres, Adjunct Associate Professor, Department of Occupational and Environmental Health, University of Iowa.

2001-pres, Adjunct Associate Professor, Department of Community and Behavioral Health, University of Iowa.

1998-pres, Associate Research Scientist, Institute for Rural and Environmental Health, Department of Occupational and Environmental Health, College of Public Health, University of Iowa.

1997-pres, Adjunct Associate Professor, Department of Anthropology, University of Iowa.

2002-2003, Research Associate, Field Museum, Chicago.

1996-1998, Data Base Analyst I, Institute for Rural and Environmental Health, Department of Preventive Medicine and Environmental Health, University of Iowa.

1996, Supervisor, Department of Clinical Research, Columbia Hospital at Medical City Dallas, Dallas, Texas.

1994-1996, Senior Scientist, Department of Clinical Research, Medical City Dallas Hospital.

1991-1994, Research Scientist, Advanced Surgical Institutes, Medical City Dallas Hospital.

1991-1997, Research Associate, Department of Anthropology, Southern Methodist University.

1988-1991, Adjunct Assistant Professor, Department of Anthropology, University of Iowa.

1988-1991, Assistant Research Scientist, Department of Otolaryngology, University of Iowa.

1986-1987, Visiting Instructor, Department of Anthropology, University of Iowa.

1983-1988, Research Assistant III, Cleft Palate Surgical Research Laboratory, Department of Otolaryngology, University of Iowa.

1982, Visiting Instructor, Department of Anthropology, University of Iowa.

## **TEACHING EXPERIENCE**

### COURSES TAUGHT

Social Determinant of Health (with N. Thompson). Dept of Community & Behavioral Health, University of Iowa, Spring 2007.

Community Preventive Programs/Services (with N. Thompson). Dept of Community & Behavioral Health, University of Iowa, Fall 2006.

Special Topics: Health and Human Variation. Dept of Community & Behavioral Health, University of Iowa, Spring 2004.

Special Topics: Genetics, Culture & Disease, Department of Anthropology, University of Iowa, Spring, 1999.

Human Evolution, Department of Anthropology, University of Iowa, Spring, 1998.

Topics in Biomedical Anthropology (independent study), Department of Anthropology, University of Iowa, Summer 1990.

Human Origins (an introduction to physical anthropology), Department of Anthropology, University of Iowa, Spring 1987, Fall 1982.

Biological Anthropology Seminar, Department of Anthropology, University of Iowa, Fall 1986.

Survey of Biomedical Anthropology (independent study), Department of Anthropology, University of Iowa, Summer 1984.

#### LABORATORY INSTRUCTION

Gross Anatomy, Department of Anatomy, University of Iowa, Fall 1990.

Cooperating Research Scientist, Iowa-Secondary Student Training Program, Science Education, College of Education, University of Iowa, 1983-1990.

#### INVITED LECTURES

- 2006 "Anthropometrics." Occupational Ergonomics: Principles and Methods, Department of Environmental and Occupational Health, University of Iowa, Aug. 29.
- 2005 "Anthropometrics." Occupational Ergonomics: Principles and Methods, Department of Environmental and Occupational Health, University of Iowa, Sept. 15.
- 2005 "The Plagiocephaly Epidemic in Anthropological Perspective: Biology, Behavior & Boas" Dept of Anthropology Colloquium Series, University of Iowa, Feb. 18.
- 2004 "Anthropometrics." Occupational Ergonomics: Principles and Methods, Department of Environmental and Occupational Health, University of Iowa, Sept. 22.
- 2003 "Anthropometrics." Occupational Ergonomics: Principles and Methods, Department of Environmental and Occupational Health, University of Iowa, Sept. 15.
- 2002 "Anthropometrics." Occupational Ergonomics: Principles and Methods, Department of Environmental and Occupational Health, University of Iowa. Sept. 9.
- 2002 "The Peopling of the Pacific." Cultures of Melanesia, Department of Anthropology, University of Iowa, Feb. 8.
- 2000 "Anthropology." Social Science and Health, Department of Community and Behavioral Health, University of Iowa, Jan. 26.
- 1999 "Overview of Medical Anthropology." International Health, College of Public Health, University of Iowa, Oct. 13.
- 1999 "Malaria in New Guinea." Global Health Studies Seminar, Global Health Studies, University of Iowa, Mar. 30.
- 1999 "Bio-cultural Adaptation to Disease." Epidemiology of Infectious Disease, Department of Preventive Medicine and Environmental Health, University of Iowa, Feb. 23.

- 1999 "An Anthropological Perspective on the Classification and Treatment of Craniofacial Disorders." Applied Anthropology, Department of Anthropology, University of Iowa, Feb. 12.
- 1999 "Gene-Environment Interactions and the Colonization of the Pacific." Research Seminar, Division of Occupational and Environmental Health, Department of Preventive Medicine and Environmental Health, University of Iowa, Feb. 10.
- 1999 "Biological Anthropology in Clinical Treatment and Research." Medical Anthropology, Department of Anthropology, University of Iowa, Nov 21.
- 1999 "Quantitative Research Methodologies." Introduction to Research Methods in the Health Sciences, Department of Allied Health Education, University of Oklahoma Health Science Center, Oklahoma City, Oklahoma, Nov. 4.
- 1994 "The Sepik Coast Project." Medical Anthropology Seminar, Department of Anthropology, Southern Methodist University, Dallas, Texas, Oct. 4.

### **GRANTS AND CONTRACTS**

- Co-Investigator, Keokuk County Rural Health Study: The epidemiology of disease and injuries in an agricultural county. (JA Merchant, Principal Investigator) National Institute for Occupational Safety and Health grant to the Great Plains Center for Agricultural Health (JA Merchant, Center Director), 2006-2011, \$1,916,315.
- Co-Investigator, Keokuk County Rural Health Study: The epidemiology of disease and injuries in an agricultural county. (JA Merchant, Principal Investigator) National Institute for Occupational Safety and Health grant to the Great Plains Center for Agricultural Health (JA Merchant, Center Director), 2001-2006, \$2,499,000.
- Investigator, Exposure intervention in a rural pediatric asthma cohort. (PS Thorne, Principal Investigator) National Institute of Environmental Health Sciences, 2001-2006, \$1,300,000.
- Co-Investigator, Pilot Study of Provider Colorectal Cancer Screening Practices in Iowa. (NJ Thompson, Principal Investigator) American Cancer Society – Midwest Chapter, 2002, \$14,000.
- Training grant recipient, The Etiology And Pathogenesis Of Airway Disease In Children From Rural Communities (G Hunnihake, Program Director), 2001-2002, \$52,920.
- Co-Investigator, Keokuk County Rural Health Study (JA Merchant, Principal Investigator) National Institute for Occupational Safety and Health grant to the Great Plains Center for Agricultural Health (S Reynolds, Center Director), 1998-2001, \$2,399,000.
- Investigator, Repair of bone defects using hydroxyapatite cement. Liebinger Instruments, Dallas, TX, 1993, \$20,000.
- Investigator, A comparative study of the use of two different plating systems under stress in the treatment of craniofacial deformities. Storz Medical, St. Louis, MO, 1993, \$50,000.
- Investigator, A comparative study of the two different plating systems on craniofacial growth. Storz Medical, St. Louis, MO, 1992, \$50,000.

Investigator, The efficacy of perforated demineralized bone matrix (PDBM) cranioplasty. Pacific Coast Tissue Bank, Los Angeles, CA, 1991, \$15,000.

Co-Investigator, Growth, surgical and speech aspects of cleft palate (DE05837, HL Morris, Program Director), National Institute for Dental Research, 1985-1991, \$1,708,000.

Investigator, Preliminary study of fertility and demography in the Markham River Valley, Papua New Guinea. Summer Research Grant, University of Illinois, 1982, \$3,000.

## **PUBLICATIONS**

### PEER-REVIEWED ARTICLES

- 2006 Thorne PS, Adamcakova-Dodd A, **Kelly KM**, O'Neill ME, Duchaine C. [Metal working fluid with mycobacteria and endotoxin Induces hypersensitivity pneumonitis in mice.](#) *American Journal of Respiratory and Critical Care Medicine*, 173:759-768.
- 2006 Sanderson WT, Madsen MD, Rautiainen R, **Kelly KM**, Zwerling C, Taylor CD, Reynolds SJ, Stromquist AM, Burmeister LF, Merchant JA. [Tractor Overturn Concerns in Iowa: Perspectives from the Keokuk County Rural Health Study.](#) *Journal of Agricultural Health and Safety*, 12:71-81.
- 2006 Pomatto JK, Calcaterra J, **Kelly KM**, Beals SP, Littlefield TR. [A study of family head shape: environmental influences alter cranial shape.](#) *Journal of Clinical Pediatrics*. 45:55-63.
- 2005 Reynolds SJ, Milton DK, Heederik D, Thorne PS, Donham KJ, Croteau EA, **Kelly KM**, Douwes J, Lewis D, Whitmer M, Connaughton I, Koch S, Malmberg P, Larsson B-M, Deddens J, Saraf A, Larsson L. [Interlaboratory evaluation of endotoxin analyses in agricultural dusts – comparison of LAL assay and mass spectrometry.](#) *Journal of Environmental Monitoring*. 7:1371-1377.
- 2005 Flamme GA, Mudipalli R, Reynolds S, **Kelly KM**, Stromquist A, Zwerling C, Burmeister LF, Peng SC, Merchant JA. [Prevalence of hearing impairment in a rural Midwestern cohort: Estimates from the Keokuk County Rural Health Study, 1994-1998.](#) *Ear and Hearing*. 26:350-360
- 2005 Merchant JA, Naleway AL, Svendsen ER, **Kelly KM**, Burmeister LF, Stromquist AM, Taylor CD, Thorne PS, Reynolds SJ, Sanderson WT, Chrischilles EA. [Asthma and Farm Exposures in a Cohort of Rural Iowa Children.](#) *Environmental Health Perspectives*. 113: 350-356.
- 2005 Littlefield TR, Cherney JC, Luisi JL, Beals SP, **Kelly KM**, Pomatto JK. [Comparison of plaster casting versus 3D imaging for treatment of plagiocephaly.](#) *Cleft Palate-Craniofacial Journal*. 42: 157-164.
- 2004 Littlefield TR, Saba, NM, **Kelly KM**. [On the current incidence of deformational plagiocephaly: An estimation based on prospective registration at a single center.](#) *Seminars in Pediatric Neurology* 11: 301-304.
- 2004 Littlefield TR, **Kelly KM**. Deformational plagiocephaly: recommendations for future research. *Journal of Prosthetic and Orthotics* 16 Supplement: S59-S62.

- 2004 Littlefield TR, **Kelly KM**, Cherney JC, Beals SP, Pomatto JK. [Development of a new three-dimensional cranial imaging system](#). *Journal of Craniofacial Surgery* 15:175-181.
- 2004 Chrischilles E, Ahrens R, Kuehl A, **Kelly K**, Thorne P, Burmeister L, Merchant J. [Asthma prevalence and morbidity among rural Iowa schoolchildren](#). *Journal of Allergy and Clinical Immunology* 113: 66-71.
- 2003 Littlefield TR, **Kelly KM**, Pomatto JK, Cherney JC. Infant car seats, carriers, bouncy seats and swings: Their role in deformational plagiocephaly. *Journal of Prosthetics and Orthotics* 15: 102-106.
- 2003 Park H, Reynolds SJ, **Kelly KM**, Stromquist AM, Burmeister LF, Zwerling C, Merchant JA. [Characterization of agricultural tasks performed by youth in the Keokuk County Rural Health Study](#). *Applied Occupational and Environmental Hygiene* 18: 418-429.
- 2003 Beals SP, Golden KA, Basten ML, **Kelly KM**. Strength performance of the pectoralis major muscle following subpectoral placement of mammary implants. *Aesthetic Surgery Journal* 23: 92-97
- 2002 Littlefield TR, **Kelly KM**, Pomatto JK, Beals S. [Multiple-birth infants at higher risk for development of deformational plagiocephaly II: Is one twin at greater risk?](#) *Pediatrics* 109: 19-25.
- 2002 Turvey C, Stromquist A, **Kelly K**, Zwerling C, Merchant J. Financial loss and suicidal ideation in a rural community sample. *Acta Psychiatrica Scandinavica* 106: 373-380.
- 2002 Merchant JA, Stromquist AM, **Kelly KM**, Zwerling C, Reynolds SJ, Burmeister LF. [Chronic disease and injury in an agricultural county: The Keokuk County Rural Health Study](#). *Journal of Rural Health* 18: 521-535.
- 2002 Reynolds SJ, Thorne PS, Donham KJ, Croteau EA, **Kelly KM**, Lewis D, Whitmer M, Heederik DJJ, Douwes J, Connaughton I, Koch S, Malmberg P, Larsson BM, Milton DK. [Comparison of endotoxin assays using agricultural dusts](#). *American Industrial Hygiene Association Journal* 63: 430-438.
- 2001 Terrell JE, **Kelly KM**, Rainbird P. [Foregone conclusions? In search of 'Austronesians' and 'Papuan.'](#) *Current Anthropology* 42: 97-124.
- 2001 Zwerling C, Merchant JA, Nordstrom DL, Stromquist AM, Burmeister LM, Reynolds SJ, **Kelly KM**. [Risk factors for injury in rural Iowa](#). *American Journal of Preventive Medicine* 20:230-233.
- 2000 Littlefield TR, Pomatto JK, **Kelly KM**. [Dynamic Orthotic Cranioplasty: Treatment of the older infant. Report of four cases](#). *Neurosurgical Focus* 9 (3): Article 5.
- 1999 **Kelly KM**. Malaria and immunoglobulins in Pacific prehistory. *American Anthropologist* 101: 806-809.
- 1999 **Kelly KM**, Littlefield TR, Pomatto JK, Manwarring KH, Beals SP. [Cranial growth unrestricted during treatment of deformational plagiocephaly](#). *Pediatric Neurosurgery* 30: 193-199.

- 1999 **Kelly KM**, Littlefield TR, Pomatto JK, Ripley CE, Beals SP, Joganic EF. [Importance of early recognition and treatment of deformational plagiocephaly with orthotic cranioplasty](#). *American Cleft Palate-Craniofacial Journal* 36: 127-30.
- 1999 Littlefield TR, **Kelly KM**, Pomatto JK, Beals SP. [Multiple-birth infants at higher risk for development of deformational plagiocephaly](#). *Pediatrics* 103: 565-69.
- 1999 Taylor CD, Reynolds SJ, Stromquist A, Merchant J, Zwerling C, **Kelly K**. [Environmental conditions in the homes of a rural Iowa county](#). *Journal of Agricultural Safety and Health* 5: 407-416.
- 1998 Reynolds SJ, Merchant JA, Stromquist AM, Burmeister LF, Taylor C, Lewis MQ, **Kelly KM**. [Keokuk County Rural Health Study: Self report of use of pesticides and protective equipment](#). *Journal of Agricultural Safety and Health* SI (1): 67-77.
- 1997 Mack MJ, Scruggs GR, **Kelly KM**, Shennib H, Landreneau RJ. Video-assisted thoracic surgery: has technology found its place? *Annals of Thoracic Surgery* 64:211-5.
- 1996 **Kelly KM**. IGHG3 G and the pathogenesis of hyperreactive malarious splenomegaly. *Medical Hypotheses* 46:135-139.
- 1995 Salyer KE, Bardach J, Squier CA, Gendler E, **Kelly KM**. Cranioplasty in the growing canine skull using demineralized perforated bone. *Plastic and Reconstructive Surgery* 96:770-779.
- 1995 Dixit UB, **Kelly KM**, Squier CA, Bardach J. The role of periosteum in regeneration of palatal defects. *Cleft Palate-Craniofacial Journal* 32:228-234.
- 1994 **Kelly KM**. On the magic number 500: an expostulation. *Current Anthropology* 35:435-438.
- 1994 Bardach J, **Kelly KM**, Salyer KE. The effects of lip repair with delayed palate repair versus lip repair with undermining and delayed palate repair: an experimental study in beagles. *Plastic and Reconstructive Surgery* 94:343-351.
- 1994 Bardach J, **Kelly KM**, Salyer KE. Relationship between the sequence of lip and palate repair and maxillary growth: an experimental study in beagles. *Plastic and Reconstructive Surgery* 93:269-278.
- 1994 Salyer KE, Bardach J, Squier CA, **Kelly KM**. A comparative study of the effects of biodegradable and titanium plating systems on cranial growth and structure: experimental study in beagles. *Plastic and Reconstructive Surgery* 93:705-713.
- 1993 Clark JT, **Kelly KM**. [Human genetics, paleoenvironments, and malaria: relationships and implications for the settlement of Oceania](#). *American Anthropologist* 95:613-631.
- 1993 Bardach J, **Kelly KM**, Salyer KE. A comparative study of facial growth following lip and palate repair performed in sequence and simultaneously: an experimental study in beagles. *Plastic and Reconstructive Surgery* 91:1008-1016.
- 1993 Morris HL, Bardach J, Ardinger H, Jones DL, **Kelly KM**, Olin WH, Wheeler J. Multidisciplinary treatment results for patients with isolated cleft palate. *Plastic and Reconstructive Surgery* 92:842-851.

- 1992 Salyer KE, Gendler E, Menendez JL, Simon TR, **Kelly KM**, Bardach J. Demineralized perforated bone implants in craniofacial surgery. *Journal of Craniofacial Surgery* 3:55-62.
- 1992 Bardach J, Morris HL, Olin WH, Gray SD, Jones DL, **Kelly KM**, Shaw WC, Semb G. Results of multidisciplinary management of bilateral cleft lip and palate at the Iowa Cleft Palate Center. *Plastic and Reconstructive Surgery* 89:419-432.
- 1991 Bardach J, **Kelly KM**. Reflections on research. *Cleft Palate-Craniofacial Journal* 28:130-135.
- 1991 Foggia DA, Gray SD, **Kelly KM**. Cricoid quartersection versus anterior-posterior cricoid split: effect on subglottic growth in rabbits. *Otolaryngology-Head and Neck Surgery* 105:826-831.
- 1991 Canady JW, Squier CA, **Kelly KM**, Bardach J. Blood flow in expanded tissue treated with an anticontractile agent. *Annals of Otology, Rhinology and Laryngology* 100:962-965.
- 1991 Yessenow RS, Garner SL, Bauer CA, **Kelly KM**, Bardach J. The effects of calcium channel blockers on random skin flap survival in the pig model. *European Journal of Plastic Surgery* 14:3-6.
- 1990 **Kelly KM**. [Gm polymorphisms, linguistic affinities, and natural selection in Melanesia](#). *Current Anthropology* 31:201-219.
- 1990 Bardach J, **Kelly KM**. Does interference with mucoperiosteum and palatal bone affect craniofacial growth? An experimental study in beagles. *Plastic and Reconstructive Surgery* 86:1093-1100.
- 1990 Canady JW, Squier CA, **Kelly KM**, Bardach J. Serial measurement of blood flow in expanded tissue by laser doppler velocimetry. *Otolaryngology-Head and Neck Surgery* 103:986-990.
- 1990 Matt BH, Squier CA, **Kelly KM**, Bardach J. Enhancement of expansion of guinea pig skin by local delivery of an anticontractile agent using a new bilumen expander. *Annals of Plastic Surgery* 24:335-341.
- 1988 **Kelly KM**, Bardach J. Facial growth in beagles with repair of an isolated cleft palate. *European Journal of Plastic Surgery* 12:66-73.
- 1988 Bardach J, **Kelly KM**. The influence of lip repair with and without soft tissue undermining on facial growth in beagles. *Plastic and Reconstructive Surgery* 82:747-755.
- 1988 Bardach J, **Kelly KM**. The role of animal models in experimental studies of craniofacial growth following cleft lip and palate repair. *Cleft Palate Journal* 25:103-113.
- 1988 Bardach J, **Kelly KM**, Jakobsen, JR. Simultaneous cleft lip and palate repair: an experimental study in beagles. *Plastic and Reconstructive Surgery* 82:31-39.
- 1987 Elkadi HK, Ngheim DD, Southard JH, **Kelly KM**, Olson C. Naloxone in renal ischemia: a functional and microanatomical study. *Journal of Surgical Research* 42:675-692.
- 1985 Bardach J, Martin RK, Mooney MP, **Kelly KM**, Albright J. Bone formation in the canine palate following partial resection. *Progress in Clinical and Biological Research* 187: 365-

377.

PEER-REVIEWED PROCEEDINGS

- 2004 Littlefield TR, Pomatto JK, Beals SP, **Kelly KM**, Cherney JC. A new three-dimensional imaging system for evaluation and treatment of plagiocephaly In: KE Salyer (ed.), *Craniofacial Surgery 10. Proceedings of X International Congress of the International Society of Cranio Facial Surgery*. Bologna: Monduzzi Editore, pp. 423-425.
- 2004 Littlefield TR, Pomatto JK, Beals SP, **Kelly KM**, Cherney JC. Comparison of plaster casting versus 3D imaging for treatment of plagiocephaly. In: KE Salyer (ed.), *Craniofacial Surgery 10. Proceedings of X International Congress of the International Society of Cranio Facial Surgery*. Bologna: Monduzzi Editore, pp. 427-430.
- 2001 Pomatto JK, Beals SP, Joganic E, Moss SD, **Kelly KM**, Littlefield TR. Preliminary results and new treatment protocol for cranial banding following endoscopic-assisted craniectomy for sagittal synostosis. In: CGK Lauritzen (ed.), *Craniofacial Surgery 9. Proceedings of the Ninth International Congress of the International Society of Cranio-Facial Surgery*. Bologna: Monduzzi Editore, pp. 47-49.
- 2000 Littlefield T, **Kelly K**, Pomatto, T, Manwaring K, Beals S, Joganic E. Cranial growth unrestricted during DOC® treatment of plagiocephaly. In: C Yu-Ray (ed.), *Craniofacial Surgery 8. Proceedings of the Eighth International Congress of the International Society of Cranio-Facial Surgery*. Bologna: Monduzzi Editore, pp 21-23.
- 1994 Salyer KE, Bardach J, Squier CA, **Kelly KM**. A comparative study of the effects of the histologic and morphologic effects of biodegradable and titanium plating systems: an experimental study in beagles. In: F Ortiz-Monasterio (ed.), *Craniofacial Surgery 5. Vth Biannual Meeting of the International Society of Cranio-Maxillo-Facial Surgery*. Bologna: Monduzzi Editore, pp. 42-45.
- 1990 Bardach J, Cassell MD, Squier CA, **Kelly KM**. New bone formation and maxillary growth in surgically created palatal defects closed with palatal mucosa. In: AD Dixon, BG Sarnat, and DAN Hoyte (eds.), *Fundamentals of Bone Growth: Methodology and Applications*. Boca Raton: CRC Press, pp. 383-395.

BOOK CHAPTERS

- n.d. **Kelly KM**. Biological basis of cleft palate and palatal surgery. In: FJM Verstraete (ed.), *Oral and Maxillofacial Surgery in Dogs and Cats*. St. Louis: Mosby. *In press*.
- 2002 **Kelly KM**. Population. In: JP Hart and JE Terrell (eds.), *Darwin and Archaeology: A Handbook of Key Concepts*. Greenwood Publishers: Westport, Connecticut, pp. 243-256.
- 1996 **Kelly KM**. [The end of the trail: the genetic bases for deriving the Polynesian peoples from Austronesian-speaking paleopopulations of Melanesian Near Oceania](#). In: J Davidson, G Irwin, BF Leach, A Pawley and D Brown (eds.), *Oceanic Culture History, Essays in Honour of Roger Green*. New Zealand Journal of Archaeology Special Publication, pp. 355-364.
- 1990 **Kelly KM**. Expanding the perception of cleft morphology: anthropometric studies of body growth, form and size. In: J Bardach and HL Morris (eds.), *Multidisciplinary Management of Cleft Lip and Palate*. WB Saunders: Philadelphia, pp. 489-493.

- 1990 Squier CA, **Kelly KM**. Cleft lip and palate research: approaches at the cellular and molecular level. In: J Bardach and HL Morris (eds.), *Multidisciplinary Management of Cleft Lip and Palate*. Philadelphia: WB Saunders: Philadelphia, pp. 483-489.
- 1990 Bardach J, Olin WH, **Kelly KM**. Surgical-orthodontic correction of the protruded premaxilla. In: J Bardach and HL Morris (eds.), *Multidisciplinary Management of Cleft Lip and Palate*. WB Saunders: Philadelphia, pp. 563-573.
- 1990 Bardach J, Morris HL, Olin WH, Gray SD, Jones DL, **Kelly KM**, Gundlach KKH, Rohrs M, Behlfelt K, Fricke B. Iowa-Hamburg project: late results of multidisciplinary management at the Iowa Cleft Palate Center. In: J Bardach and HL Morris (eds.), *Multidisciplinary Management of Cleft Lip and Palate*. WB Saunders: Philadelphia, pp. 98-112.

#### MISCELLANEOUS

- 2005 Chrischilles EA, Thorne PS, Kuehl AK, **Kelly KM**, Schroeder A, O'Neill M, Walker R, Harris L, Quinones A. An algorithm for identifying a population-based Sample of children with frequent asthma symptoms. [abstract] *Proceedings of the American Thoracic Society*. 2: A698.
- 2005 Thorne PS, Chrischilles EA, Kuehl AK, **Kelly KM**, Metwali N, LEIP Field Group. Indoor surface and airborne concentrations of endotoxin and B(1-3,1-6)-glucans in the homes of rural asthmatic children. [abstract] *Proceedings of the American Thoracic Society*. 2: A694.
- 2004 **Kelly KM**. Review of *The X in Sex: How the X Chromosome Controls Our Lives*. By David Bainbridge. *American Journal of Human Biology*. 16: 175-176.
- 2003 Metwali N, Thorne PS, **Kelly KM**. Specific IgE and IgG4 to environmental allergens in rural asthmatic children and matched controls. [abstract] *American Journal of Respiratory and Critical Care Medicine* 167(8): A152.
- 2002 Littlefield TR, **Kelly KM**. Position in the womb can affect head shape. *Twins*. Mar/Apr: 20-21.
- 2002 **Kelly KM**, Reynolds SR, Moore G, Stromquist AM, Merchant JA. Age-based anthropometric standards for protective respiratory equipment: A community based study of at-risk children. [abstract]. *American Journal of Physical Anthropology* S25: 93.
- 2001 **Kelly KM**. Review of *Urbanism, Health and Human Biology in Industrialised Countries*, LM Schell and SJ Ulijaszek (eds.) *American Journal of Human Biology* 13: 839-840.
- 2000 **Kelly K**. Robert Emmet -- Nationalist and Orator. *Ireland Information Newsletter*. Jul. [Internet publication]
- 2000 Wright AL, Merchant JA, Stromquist AM, **Kelly KM**. Perinatal and early life risk factors for childhood asthma in a rural Iowa cohort [abstract]. *American Journal of Epidemiology* (Jun suppl.)
- 1999 **Kelly KM**. Review of "Adaptation to Malaria: The interaction of biology and culture." LS Greene and ME Danubio (eds.) *Journal of Political Ecology* 6. [Internet publication]
- 1998 **Kelly KM**. Health, Culture and Genetic Diversity [workshop report]. *Anthropology Newsletter*, December, 39: 9.

- 1997 Littlefield TR, **Kelly KM**. Orthotic versus nonorthotic treatment for occipital plagiocephaly [letter]. *Neurosurgical Focus* 2, August.
- 1997 Nisbett RA, **Kelly KM**. NCSE membership and college admissions tests [letter]. *Reports of the National Center for Science Education* 17: 24.
- 1997 Merchant JA, **Kelly KM**, McMillan D, Troester S, Walkner L, et al. *The 1997 Iowa Health Fact Book*. Iowa City, IA: University of Iowa, 296 pp.
- 1993 **Kelly KM**. An historical perspective on the contribution of anthropology to cleft lip and palate research [abstract]. *American Journal of Physical Anthropology* S16:123-124.
- 1993 **Kelly KM**. Recurrent otitis media: genetic immunoglobulin markers in children and their parents [letter]. *International Journal of Pediatric Otorhinolaryngology* 25:279-80.
- 1992 **Kelly KM**. On the genetic basis of hyperreactive malarious splenomegaly and the selection of G3M alleles [abstract]. *American Journal of Physical Anthropology* S14:98.
- 1991 Dixit UB, **Kelly KM**, Hodgins T, Bardach J, Squier CA. Role of periosteum in healing palatal defects in beagles [abstract]. *Journal of Dental Research* 70:335.
- 1991 Squier CA, Hodgins T, **Kelly KM**, Bardach J, Dixit UB. Factors determining the regeneration of resected bony palate [abstract]. *Journal of Dental Research* 70:520.
- 1991 Bardach J, **Kelly KM**. Reply to G Campbell, "Laboratory investigations utilizing dogs" [letter]. *Plastic and Reconstructive Surgery* 88:917.
- 1991 Bardach J, **Kelly KM**. Does interference with mucoperiosteum and palatal bone affect maxillofacial surgery? [letter]. *Plastic and Reconstructive Surgery* 88:548.
- 1990 **Kelly KM**. Review of *The Chemistry of Prehistoric Human Bone*, TD Price (ed.). *American Journal of Physical Anthropology* 83:267-268.
- 1989 Squier CA, Bardach J, **Kelly KM**, Hodgins T, Dixit U. Bone apposition and regeneration in surgically created palatal clefts in beagles [abstract]. *Journal of Dental Research* 68:939.
- 1988 **Kelly KM**. Selection and the Gm-hypothesis [abstract]. *American Journal of Physical Anthropology* 75:231.

## PRESENTATIONS

### SESSIONS, SYMPOSIA ORGANIZED

- 2000 Zimmer-Tamakashi L, **Kelly KM**. Session: Public Faces, Public Responsibility: Anthropology and the World Wide Web. American Anthropological Association. San Francisco, CA. Nov 15-19.
- 1993 **Kelly KM**, Ward, RE. Symposium: Anthropological Perspectives on Cleft Lip and Palate. American Association of Physical Anthropologists, Toronto, Ontario, Apr 14-17.

### PAPERS PRESENTED\*

- 2003 **Kelly KM**, Littlefield TR, Pomatto JK, Cherney JC. Infant car seats, carriers, bouncy seats and swings: Their role in deformational plagiocephaly. American Cleft Palate-Craniofacial Association, Asheville, NC, Apr 10-13.
- 2002 **Kelly KM**. Community Health Research as Human Population Biology. Invited Session: What Can Biological Anthropology Contribute to Medical Anthropology? (Biological Anthropology Section and Society for Medical Anthropology, W Trevathan, organizer). American Anthropological Association, New Orleans, LA, Nov 20-24.
- 2001 **Kelly KM**, Reynolds SR, Moore G, Stromquist AM, Merchant JA. Developing age-based standards for respirators. American Industrial Hygiene Conference and Exposition, New Orleans, Jun 2-7.
- 2001 **Kelly KM**, Littlefield TR, Pomatto JK. Deformational plagiocephaly in concordant twins: Does in utero position point to a major risk? American Cleft Palate Craniofacial Association, Minneapolis, MN, Apr 23-28.
- 2000 **Kelly KM**. Portals to the people. Marketing Anthropology on the Internet. American Anthropological Association, San Francisco, CA, Nov 15-19.
- 1993 **Kelly KM**, Bardach J, Salyer KE. The effects of repair of an isolated lip defect on maxillary growth: an experimental study in beagles. American Cleft Palate-Craniofacial Association, Pittsburgh, PA, Apr 19-24.
- 1993 **Kelly KM**, Bardach J, Salyer KE. Does gender affect the postoperative growth of the maxilla? Indications from studies in beagles. American Cleft Palate-Craniofacial Association, Pittsburgh, PA, Apr 19-24.
- 1993 **Kelly KM**. An historical perspective on the contribution of anthropology to cleft lip and palate research. In the symposium: Anthropological Perspectives on Cleft Lip and Palate, American Association of Physical Anthropologists, Toronto, Ontario, Apr 14-17.
- 1992 **Kelly KM**. On the genetic basis of hyperreactive malarious splenomegaly and the selection of G3M alleles. American Association of Physical Anthropologists, Las Vegas, NV, Apr 1-4.
- 1992 **Kelly KM**, Bardach J, Salyer KE. The effects of two-stage versus simultaneous lip and palate repair on maxillary form: a study in beagles. American Cleft Palate-Craniofacial Association, Portland, OR, May 13-16.
- 1992 **Kelly KM**, Bardach J, Salyer KE. Effects of the sequence of lip and palate repair on maxillary growth. Plastic Surgery Research Council, Toronto, Ontario, Apr 29-May 2.
- 1991 **Kelly KM**, Bardach J. Maxillary form following lip repair: an experimental study in beagles. American Cleft Palate-Craniofacial Association, Hilton Head, SC, Mar 18-21.
- 1990 **Kelly KM**, Bardach J, Squier CA, Garner SL. Effects of soft tissue repair on bone regeneration in surgical clefts in beagles. American Cleft Palate-Craniofacial Association, St. Louis, MO, May 13-18.
- 1989 Bardach J, **Kelly KM**. The fallacy of some concepts of palatoplasty. American Cleft Palate-Craniofacial Association, San Francisco, CA, Apr 23-28.
- 1988 **Kelly KM**. Selection and the Gm-hypothesis. American Association of Physical

Anthropologists, Kansas City, MO, Mar 22-26.

1988 **Kelly KM**, Bardach J. Facial growth in beagles with cleft palate only following two-flap palatoplasty. American Cleft Palate Association, Williamsburg, VA, Apr 26-29.

1977 **Kelly KM**. The detection of altered collagen in cooked bone. Regents Honors Conference, Iowa City, IA, Apr 2.

\* Also a co-author on an additional 70+ paper or poster presentations at national or international meetings.

### **SELECTED WORKS IN PROGRESS**

#### SUBMITTED FOR PUBLICATION

Stromquist AS, **Kelly KM**, Burmeister LF, Zwerling C, Merchant JA. Factors associated with depression in a cohort of rural women. *Journal of Rural Health*.

Pomatto JK, Calcaterra J, Hess RM, **Kelly KM**, Littlefield TR. Use of cranial remodeling bands following endoscopic-assisted craniectomy for sagittal synostosis. *Journal of Neurosurgery*.

Flamme GA, Stromquist A, **Kelly KM**, Zwerling C, Burmeister LF, Merchant JA. Prevalence and correlates of hearing aid use in a rural Midwestern cohort: Estimates from the Keokuk County Rural Health Study, 1994-1998. *Ear and Hearing*.

#### SUBMITTED FOR PRESENTATION

Thorne PS, Metwali N, Kuehl AKW, Kelly KM, Chrischilles EA. Repeated Assessment of Endotoxin in Airborne and Settled Dust in Rural Houses. Submitted to *American Thoracic Society*.

#### IN PREPARATION

The geopolitics of malaria in the European conquest of the New World.

With Terrell, JE. Biological Analogies in Archaeology.

### **PROFESSIONAL MEMBERSHIPS**

1980-pres, Member, American Association of Physical Anthropologists

1980-pres, Fellow, Human Biology Association

1983-pres, Fellow, American Anthropological Association

1983-pres, Member, Society for Medical Anthropology

1983-pres, Member, Biological Anthropology Section of the American Anthropological Association

1988-pres, Member, American Cleft Palate-Craniofacial Association

1994-pres, Member, Indo-Pacific Prehistory Association

2000-pres, Member, Melanesia Interest Group

2002-pres, Member, Society for Anthropological Sciences Interest Group

2004-pres, Member, National Association for the Practice of Anthropology

2005-pres, Member, Evolutionary Anthropology Society

**SERVICE**STUDENT COMMITTEES

2006-pres, Research Supervisor, Laura Sawatzke B.A. Honors Project, Department of Integrative Physiology, University of Iowa.

2006-pres, Member, Scott Maddux Ph.D. Committee, Department of Anthropology, University of Iowa.

2005-pres, Member, Angela Quella Ph.D. Committee, Department of Epidemiology, University of Iowa.

2005-2006, Member, Scott Maddux M.A. Committee, Department of Anthropology, University of Iowa.

2005, Member, Angie Schroder M.P.H. Committee, Department of Occupational and Environmental Health, University of Iowa.

1999, Member, VJ Mudipalli M.S. Thesis Committee, Department of Preventive Medicine, University of Iowa.

1990-1991, Member, Ekaterina Semendeferi Comprehensive Examination Committee, Department of Anthropology, University of Iowa.

1990-1991, Member, Uma B. Dixit M.S. Thesis Committee, Department of Pediatric Dentistry, University of Iowa.

1990-1991, Member, James B. Himphill M.A. Committee (*non-thesis concentration in museology*), Department of Anthropology, University of Iowa.

1989-1991, Member, Richard A. Nisbett Comprehensive Examination and Ph.D. Committees, Department of Anthropology, University of Iowa.

1987-1988, Research Supervisor, Laura Brinks B.A. Honors Project, Department of Anthropology, University of Iowa.

NATIONAL

2005-pres, Moderator, H-MedAnthro discussion list

1993-1995, Member, 1995 Program Committee, American Cleft Palate-Craniofacial Association

1993-1994, Member, Ad hoc Liaison for Basic Science and Clinical Research Committee, American Cleft Palate-Craniofacial Association

1994, Consultant, Oral Biology and Medicine Study Section, National Institutes of Health, Bethesda, Maryland.

1992-1993, Member, Committee on Membership Development, American Cleft Palate-Craniofacial Association

DEPARTMENTAL, COLLEGIATE OR UNIVERSITY SERVICE POSITIONS

2001-2002, Member, Injury Prevention Search Committee, Department of Community and Behavioral Health, College of Public Health, University of Iowa.

2001-2002, Member, Computer Committee, College of Public Health, University of Iowa.

1996, Member, Heart and Lung Transplant Committee, Columbia Hospital at Medical City Dallas

1994-1996, Member/Biostatistician, Institutional Review Committee (human subjects), Columbia Hospital at Medical City Dallas

1993-1994, Member, Scientific Program Committee, *International Symposium on Surgical Techniques in Cleft Lip and Palate: Solving difficult problems*, Dallas, Texas, Apr 12-16, 1994.

1993-1994, Member, Local Arrangements Committee, *International Symposium on Surgical Techniques in Cleft Lip and Palate: Solving difficult problems*, Dallas, Texas, Apr 12-16, 1994.

1991-1996, Member/Biostatistician, Institutional Animal Care and Use Committee, Columbia Hospital at Medical City Dallas

1991-1996, Member, Scientific Review Committee, Department of Clinical Research, Columbia Hospital at Medical City Dallas

1990-1991, Acting Director, Otolaryngology Research, Department of Otolaryngology, University of Iowa.

1989-1991, Member, Resident Research Committee, Department of Otolaryngology, University of Iowa.

1987, Member, Local Arrangements Committee, *State of the Art Conference: Multidisciplinary Management of Unilateral Cleft Lip and Palate*, Iowa City, Iowa, Oct 14-17, 1987.

COMMUNITY

2005-2006, Scoring and Tabulation Shadow Chair, Linn-Mar Supernova Show Choir Competition, Linn-Mar High School, Marion, Iowa

2003-2005, Scoring and Tabulation Chair, Linn-Mar Supernova Show Choir Competition, Linn-Mar High School, Marion, Iowa

2003, Rockwell Collins Employee Health and Safety Expo, Coralville, Iowa, Oct 23-24.

PROFESSIONAL CONSULTING

1996-2005, Consultant, Cranial Technologies, Inc., Phoenix, Arizona.

1996-1997, Consultant, Department of Clinical Research, Columbia Hospital at Medical City Dallas.

**TRAINING**

2005, NIOSH Spirometry Training for Workers Screening Course, Nov 3-4, Iowa City, IA.

**PROGRAMMING SKILLS**

Statistical: SAS v9 -- BASE, STAT, GRAPH  
SUDAAN -- SAS-callable Release 8.01

Data entry/database: Progeny, Access; Epi Info [as well as other CATI, data entry and storage applications]

Web authoring: html; MS FrontPage