

CURRICULUM VITAE

MICHAEL H. CRAWFORD

CURRENT WORK ADDRESS:

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CURRENT POSITIONS:

Professor of Anthropology and Genetics
Director, Midwest Twin Registry
Director, Laboratory of Biological
Anthropology
Director, International Consortium for
the Study of Tuberculosis (ICST)

DEGREES HELD

B.A.	University of Washington-Seattle 1960	Anthropology
M.A.	University of Washington-Seattle 1965	Anthropology, Biological Anthropology
Ph.D.	University of Washington-Seattle 1967	Anthropology, Biological Anthropology

Dissertation Title: A Re-examination of the Taxonomy and Phylogeny of the Hominoidea Based Upon Experimental Data (Biochemical Genetics).

Committee Members: MT Newman, AG Motulsky, E. Winans, M. Jacobs

1982 Post doc Research Fellow, Department of Human Biology, John Curtin School of Medical Research, Canberra, Australia, Prof. Robert Kirk, chair.

ADDITIONAL TRAINING

1963 University of Washington Primate Center, training in Primate behavioral observation techniques, under the supervision of Dr. Ruth Bobbitt.

1963 Traineeship at the King County Blood Bank for blood grouping, and protein electrophoresis, under the supervision of Dr. Eloise Giblett.

1964 National Institutes of Health fellowship at the University of California, Berkeley in the Summer Institute of Behavioral Genetics, Dr. G. McClearn, director.

1993 Workshop on DNA fingerprints (VNTRs), Genetic Analytical Testing Center, Denver, Colorado, sponsored by the American Association of Anthropological Genetics (AAAG)

1995 Training in Molecular Anthropology, workshop at Wayne State University.

1996 Workshop on Genetic Epidemiology, SW Foundation for Biomedical Research, San Antonio, sponsored by AAAG.

1997 Workshop on ancient DNA at the Genetic Analytical Testing Laboratory, Denver, sponsored by the American Association of Anthropological Genetics.

1997 Workshop on the Major Histocompatibility Complex (HLA), November 8-12, in Mexico City at the National Museum of Anthropology, sponsored by AAAG.

1998 Workshop on Anthropological and Primate Genetics, Nov. 19-21, Southwest Foundation for Biomedical Research, San Antonio, TX

POSITIONS HELD:

1959-60 Research Assistant, Surgical Division, Pacific NW Research Center, under the supervision of Dr. Dean Crystal. Development of the heart/lung machine.

1961-63 Research Assistant, Department of Surgery, Univ. of Washington, King County Hospital, research on the effects of hormones on wound healing. Supervisor: Dr. William Cantrell.

1963-65 Teaching Assistant, Department of Anthropology, University of Washington. Supervisor: Prof. D.F. Roberts.

1965-67 Research Staff (Primate Geneticist), Regional Primate Research Center, U. of Washington.

1967 (Summer) Pre-doctoral Instructor, Department of Anthropology, University of Washington, Seattle.

1967-71 Assistant Professor, Department of Anthropology and the Human Genetics Program, Univ. of Pittsburgh, PA

1971-76 Associate Professor, Department of Anthropology, Genetics Program and Human Biology Program, Univ. of Kansas, Lawrence, KS.

1972-75 Research Associate, Parsons Research Center, Parsons State Hospital, Parsons, Kansas.

1975- Director, Laboratory of Biological Anthropology, University of Kansas, Lawrence.

1976-81 Public Health Service (NIH) Research Career Development Award

- 1976- Professor of Anthropology, Department of Anthropology, Genetics Program, Russian and East European Studies, Indigenous Nations Program, and Latin American Studies.
- 1982 Sabbatical Leave: Post-doctoral Research Fellow, John Curtin School of Medical Research, Australian National University, Canberra
- 1987- Director, Midwest Twin Register
- 1989 Distinguished Visiting Fellow, Department of Genetics and Human Variation, LaTrobe University, Melbourne, Australia
- 1990 Sabbatical Leave: Fulbright Fellow (CIES) to the Indian Statistical Institute, Calcutta; Andhra Pradesh University.
- 1988-2000 Editor-in-Chief of *Human Biology: International J. of Population Biology and Genetics*.
- 1997 Sabbatical Leave: Native American origins in Siberia.
- 2000-2008 Consulting Editor, *Human Biology*
- 2004 Sabbatical Leave: Field research in Aleutian Islands.
- 2010-2014 Associate Editor of *Human Biology*
- 2011 Sabbatical Leave: to write a book on Origins of Aleuts
- 2016-2019 Phased retirement

PROFESSIONAL SERVICES AND HONORS

Honors:

Awarded the 2016 Charles R. Darwin Research Achievement Award by the American Association of Physical Anthropologists, April 15th in Atlanta, GA

Honored by the membership of the American Association of Physical Anthropologists and Human Biologists with an invited symposium at the national meetings: "Multigenerational Perspectives on Human Biology and Anthropological Genetics. A symposium in Honor of Michael H. Crawford," March 27th, 2015, St. Louis.

Craig Anthony Arnold Faculty Research Stipend award from the College of Liberal Arts and

Sciences for submitting outstanding General Research Fund Proposal.

Franz Boas Research Achievement Award from the Human Biology Association, April 14, 2011.

Balfour-Jeffries, Higuchi Award for Research Excellence at the University of Kansas, 2006.

Argentine Academy of Sciences, Cordoba, elected Foreign Academician, 2001-. This is an honor shared with Charles Darwin—who was inducted into the Academy in the 19th century.

President, Human Biology Association (premiere society of US Human Biologists), 1997-2001 (President elect, 1997-8; President, 1998-2000; Past President, 2000-1)

Fellow, American Association for the Advancement of Science, elected in 1996.

President, American Association of Anthropological Genetics, 1994-6.

National Science Foundation panelist on Anthropology, Sociology and Linguistics, 2002, Graduate Research Fellowship Program

Wenner Gren Foundation for Anthropological Research, panelist 2010-12.

Co-author of article that won the Gabriel W. Lasker Award, 2010, for the best paper published in the journal *Human Biology* during the year 2010.

National and International Organizations.

Co-organizer of the 2nd International Congress on Human Migration, Mexico City, October 17-21, 2017

Scientific Congressional Committee, International Conference on Problems of Genetic Migration and Ethnic Anthropology, Vavilov Institute, Russian Academy of Sciences, November 19-21, 2013, Moscow, Russia.

Scientific Board, ALAB Congress in Costa Rica, 2012.

Organized and chaired the International Conference on Human Migration, Lawrence, Kansas, March 1-3, 2010

Selection Committee for the Gabriel W. Lasker Award, 2007, 2008

Judge for the selection of the best student presentation/poster at the American Association of Anthropological Genetics, 2008, 2009.

Program Chair, Human Biology Association, March 30 - April 1, 1998, Salt Lake City, Utah

Program Chair, Human Biology Association, March 26-8, 2001, Kansas City, MO

Chair of the Resolutions Committee, American Association of Physical Anthropologists (AAPA), 1973

Local arrangements committee chairman, American Association of Physical Anthropologists meeting in Lawrence, Kansas, 1972

Local arrangements committee, AAPA, 1988, Kansas City Meeting

Chair, local arrangements, Human Biology Council (Association), 1988; 2001

Nomination Committee of American Association for the Advancement of Science (AAAS), section H, elected, 1977-79

Chair of Nomination Committee, section H of AAAS, 1978-79

Program Chair for the Biological Anthropology section of the American Anthropological Association Meeting in New Orleans, November, 1973

Executive Committee, American Dermatoglyphics Association, 1990-1992.

Advisory Committee, Kansas Bureau of Investigation, DNA Laboratory, 1998-2000

Local Arrangements Committee, Arctic Anthropology Conference, Lawrence, KS, November 3-4, 2000.

Consultations:

County of Allegheny, PA, Cyril H. Wecht, Chief, Forensic Pathologist, 1969-71

Douglas County Sheriff's Office, Forensic Consultant, 1972-5

Lattimore-Fink Laboratories, Inc., Topeka, 1972

Behavioral Medicine Branch of the Division of Heart and Vascular Diseases, 1981

Consultant to the Research Institute for the Study of Man (RISM), New York, 1975-78

President's Office Harvard University, 1996

Population Center, Harvard University, 1994

Institute of Medicine, National Academy of Sciences, 1996

Kansas Health Institute, 1998-2007

Confederated Tribes of Colville Reservation, 2000-2.

Working Group on the Ethical, Legal and Social Implications of Genetic Research on Medical Conditions Affecting Indian and Native People, University of Colorado Medical School, April, 2001

External Consultant and adjudicator for the position of Professor/Chair to the Department of Human Biology, University of Mainz, Germany, 2001-2.

Supreme Court of India consultant and adjudicator in litigation involving a lawsuit on the academic qualifications of the acting director of the Anthropological Survey of India.

Consultant to Oak Ridge Associated Universities, Nazarbayev University Research Review, Fall 2016

International Service

French National Research Agency (L'Agence Nationale de la Recherche), 2014, appointed member of Comités d'Evaluation Scientifique (CES-31), evaluation of research grants. Meeting of committee July 2 and 3rd in Paris, France.

Editor-in-Chief of Human Biology: International Journal of Population Biology, 1989-2000.

Consulting Editor of Human Biology, 2000 -8; 2009- liaison between AAAG and editors of Human Biology; Associate Editor of Human Biology, 2010-.

Search Committee for the Editor-in-Chief of *Human Biology*, 2012-3.

Scientific Advisory Board for the XII Congreso Latinoamericano de Antropología Biología

Advisory Board on Russian Studies, Fulbright Fellowships, Council for International Exchange of Scholars (CIES), 3-year term, 1990-3 yearly meetings.

Human Genome Diversity, Chair, Committee on sampling Asian/Arctic populations: workshops at Pennsylvania State University, 1992, Alghero, Sardinia, 1993.

2008 Evaluator for the Danish National Research Foundation in the establishment of the GEO-GENETICS Center in Copenhagen.

Lasker prize award committee, 2008-9.

Scientific Review/Editorial Boards:

Rivista di Antropologia (Italian journal), 1991-;
Scientific Board of Homo (German Anthropological journal), 1994-2010; this journal morphed into the Journal *Homo of Comparative Human Biology* (official journal of the Australasian Society for Human Biology), 2006-.

Consulting Editor of *Collegium Antropologicum*, Croatian journal, 1996-.

Honorary Board of Advisors to the *Indian Journal of Human Genetics*, official journal of the Indian Society of Human Genetics, 1994-.

Editorial Board: Polish journal: *Przegląd Antropologiczny-Anthropological Review*, 2002-2011;

Human Biology (liaison AAAG-HB), 2008-; Associate Editor, 2010-3.

Editorial Board *Revista del Museo de Antropologia*, Universidad Nacional de Cordoba (Argentina), 2009-

Associate Editor of journal *Ethnology*, 1967-70

Editor for Biological Anthropology, *Handbook of Latin American Studies*, Library of Congress, Washington D.C., Vol. 35

Honorary Associate of the Biological Anthropology Research Programme University of Witwatersrand Medical School, South Africa, 1994-1996.

National Academy of Sciences Exchanges: USSR, 1976; Hungary, 1986

Fogarty Center (NIH) Exchanges with USSR Academy of Medical Sciences, 1977; 1983; 1985; 1989

Scientific Program Committee for ICAES (International Congress of Anthropological and Ethnological Sciences), 1988, in Zagreb

Commission on Social Aspects of Human Biology, International Association of Human Biologists, 1978

Occasional reviewer for: National Science Foundation, Wenner-Gren Foundation for Anthropological Research; Canada Council, Social Sciences and Humanities, Research Council of Canada; John Simon Guggenheim Memorial Foundation, National Health and Medical Research

Council of Australia, International Science Foundation, National Institutes of Health, National Research Council (Office of International Affairs), German-Israeli Foundation for Scientific Research and Development, Foundation for Research Development (South), U.S. Civilian Research and Development Foundation (Basic Research and Higher Education in Russia), Natural Environment Research Council, UK, Euroscience Foundation (Strasbourg), Danish National Research Foundation, and the Leakey Foundation.

Occasional reviewer for the following publications: *American Anthropologist*, *Human Biology*, *American Journal of Physical Anthropology*, *American Journal of Primatology*, *Current Anthropology*, *International Journal of Primatology*, *Annals of Human Biology*, *Annals of Human Genetics*, *Science*, *Medical Anthropology (Cross-cultural Studies in Health and Illness)*, *Yearbook of Physical Anthropology*, *Collegium Anthropologicum*, *Arctic Anthropology*, *Rivista di Antropologia*, *Homo*, *American Journal of Human Biology*, *Journal of Quantitative Anthropology*, *American Journal of Human Genetics*, *Journal of Heredity*, and *Proceedings of the National Academy of Sciences, US, PLoS*.

Adjudicator for publications of the Proceedings of Royal Society, 2001.

PROFESSIONAL ORGANIZATIONS

Argentine Academy of Sciences, Cordoba, 2001-, Corresponding Academic
American Association of Anthropological Genetics, Founding Member 1993-; President, 1994-7
American Association of Physical Anthropology, 1964- Fellow, Darwin Award recipient
American Anthropological Association, 1964-1993
American Society for Human Genetics, 1966-2008
Society for the Study of Human Biology (British) 1973-
International Association of Human Biologists, 1975-
International Primatological Society, 1980-1985.
American Association for the Advancement of Science, H, 1966-; Elected Fellow, 1996
New York Academy of Sciences, elected in 1967
Human Biology (Council) Association, 1973-; Fellow; President (1997-2001)
American Association of University Professors, 1967-1990
American Association of Social Biology, 1967-1990
Sigma Xi, 1967-2008
Council of Biology Editors, 1989-1993
Human Genome Organization (HUGO), 1993-2001
Human Genome Diversity Program, 1992-1995

FIELD RESEARCH

- (1) Italy, Summer 1968, on the demography and mate selection patterns of Alpine Isolates in Valle Maira, Northern Italy.

- (2) Mexico, Summer 1969, on the mechanics of gene flow and hybridization in the formation of Mestizo populations of Tlaxcala, Central Mexico. Directed a research team in San Pablo del Monte and the city of Tlaxcala.
- (3) Ireland, Summer 1970, on the genetics and origins of the Irish Tinkers (Travelers).
- (4) Polish Hill, Pittsburgh, 1967-71, population structure of an urban ethnic enclave.
- (5) Mexico, summer 1972, on the genetic micro-differentiation of a transplanted Tlaxcaltecan Community: Cuanalan.
- (6) Mexico, summer 1974, 1975, field work in a transplanted Tlaxcaltecan population, Saltillo, Coahuila.
- (7) Guatemala, 1975, summer field work with Nancie Gonzalez and Paul Lin on gene flow into the Black Carib (Garifuna) community of Livingston.
- (8) Belize, 1976, directed summer field work by a research team of 12 members to measure genetic micro-differentiation of the Black Caribs of Central America and to study the bio-cultural relationship between sickle cell anemia and the eradication of malaria.
- (9) U.S.S.R., 1977, summer survey with Vera Rubin and Sula Benet of the Abkhasian villages in which longevity was studied.
- (10) St. Lawrence Island, Alaska, 1978. Summer fieldwork in Savoonga, Wales, Gambell and with King Islanders on the genetic effects of language as a reproductive isolating mechanism.
- (11) Mexico, 1978, summer field survey of the Sierra Norte region of Puebla for the study of the relationship between nutrition, genetics and fertility among the Totonacs.
- (12) St. Vincent Island, summer 1979, survey of the Black Carib and Creole villages with a team consisting of Paul Lin and Janis Hutchinson for the bio-cultural study of hypertension and stress.
- (13) Kansas and Nebraska Mennonites, 1979-to present, director of a longitudinal study of biological aging and mortality. This study included 25 researchers consisting of physicians, physiologists, and biological anthropologists from Cornell, Ohio, Houston Universities and University of Kansas.
- (14) Newfoundland fishing villages, 1980-1. The effects of religion and geography on the population structure of isolated communities.

- (15) St. Vincent Island, 1983, etiology of HTLV antibodies among Black Caribs of Sandy Bay and Owia. Collaborative research with NCI--Robert Blattner and Robert Gallo.
- (16) Old Believers of Woodburn, Oregon, summer, 1984, demographic survey of three religious isolates from Russia.
- (17) Baboons of Sukhumi, U.S.S.R., 1985, to construct a model of genetic/environmental interaction for lymphoma.
- (18) Tiszahat, Hungary, summers of 1986, 1987. Historical demographic and population structure studies of agricultural, subdivided Hungarian population.
- (19) Twin Fairs, Lawrence, Kansas City, and Des Moines, Iowa, 1987 - 1990. Data collected on an assortment of quantitative traits.
- (20) Localization of the lymphoma risk genes in the Baboon sibships of Sukhumi, USSR. This research was done during one month of the summer, 1989.
- (21) Evenks of Siberia, summer, 1989. A survey was conducted for research with indigenous populations of Siberia. An agreement was signed with the Soviet Academy of Sciences, under the Human Genome Diversity Program, to survey DNA markers of the various indigenous tribes.
- (22) The effects of population subdivision through the caste system on the genetic structure of Indian populations. Fieldwork was conducted while on a Fulbright Fellowship, December/January, 1990-1 in two sites in Andhra Pradesh, India.
- (23) Field research with two populations of reindeer-herding Evenki from Surinda and Poligus. DNA extracted and the variation was compared with Amerindian RFLPs. 1991-3, sponsored by NSF.
- (24) Field research in Siberia, Altai, (Mindar-Sokkon) on Turkic-speaking populations in which the 9 bp mt-DNA deletion has been reported. Summer, 1993. This was a collaborative program with the Siberian Branch of the Russian Academy of Sciences.
- (25) Field research with Old Believers of Woodburn, Oregon, comparison with Siberian Old Believers, based on DNA markers. May and June, 1997.
- (26) Field research with Aleuts of Atka, Nikolski, St. George, St. Paul, Unalaska, and Anchorage, Alaska. Project was on the origin of Aleuts and the peopling of the Americas, based on mt-DNA haplogroups and sequencing. June-July, 1999, May-July, 2000, sponsored by NSF.

- (27) Field research with Aleuts of Bering Island and Evens, and Koryaks of Kamchatka, July August, 2001, sponsored by NSF.
- (28) Field research with Mennonite communities of Meridian and Alexanderwohl of Central Kansas, April, May, June, July 2003. Funded by the State of Kansas, Attorney General's Settlement Fund.
- (29) Field research with research assistants Rohina Rubicz and Alice Petrivelli on Aleut communities: Unalasaka, St. Paul, St. George, Sept. 2004, NSF funded.
- (30) Field investigations in Dominica, Carib Reserve with co-PI Noel Boaz, March 2005.
- (31) Field research with research assistants Mark Zlojutro and Liza Mack on Eastern Aleut communities: King Cove and Sand Point, Alaska, July-August, 2005, NSF funded.
- (32) Field investigations with research assistants Mark Zlojutro and Liza Mack on Eastern Aleut communities: False Pass, Nelson Lagoon, and Akutan, May -June, 2006, NSF funded.
- (33) Development of a joint University of Costa Rica/University of Kansas research program on Chibchan-speaking populations of Central America (April, 2007)
- (34) Pilot study of genetic susceptibility to drug resistant strains of Mycobacterium tuberculosis in Mestizo and Tarahumara populations of the State of Chihuahua (February & August, 2008).
- (35) Survey of Aleutian populations in Anchorage, Alaska, 2014, National Geographic Society (GENO.2.0) funded..

GRANTS AND FELLOWSHIPS

- (1) Fellowship from Wenner-Gren Foundation for Anthropological Research to serve as a student translator (Russian-English-Russian) at the International Congress of Anthropological and Ethnological Sciences in Moscow, 1964
- (2) NIH fellowship for a summer institute in behavioral genetics, University of California-Berkeley, 1964
- (3) Research grant from the Ford Foundation, through the International Dimensions program of the University of Pittsburgh, for the study of "Micro-evolution in an Alpine Valley." \$5,000. Summer, 1968.
- (4) Grant from the American School of Research for a conference entitled, "Urban Anthropology: Man's Biological and Ethnic Adaptation." Funding was awarded jointly with Thomas Weaver and Douglas White. 1968.

- (5) Research grant from the Social Sciences Research Council for micro-filming church records from Polish Hill, Pittsburgh. 1969.
- (6) Research grant from International Dimensions program, University of Pittsburgh, for a study: "Micro-evolution in an Ethnic Enclave," 1969.
- (7) Research grant from the Ford Foundation, administered by the International Center, University of Pittsburgh, for a project entitled "Population genetics of the Tlaxcala-Puebla Valley of Central Mexico." 1969.
- (8) Research grant from Wenner-Gren Foundation for a study entitled, "Human biology and population dynamics of Tlaxcala-Puebla valley of Central Mexico, Grant #2451. 1969-70.
- (9) Research grant from Wenner-Gren Foundation for the study of "Human Genetics of the Tinkers of Ireland." 1970-1.
- (10) Conference grant with C.C. Li from the University Center for International studies, University of Pittsburgh, for a symposium entitled "Methods of Anthropological Genetics," held at Santa Fe, New Mexico, February 24-28, 1971.
- (11) Conference grant from the American School of Research, Santa Fe, New Mexico, for a symposium "Methods of Anthropological Genetics," 1971. The proceedings from this symposium were published as volume by University of New Mexico Press.
- (12) University of Kansas General Research Fund grant for a project entitled "Analysis of population dynamics data from Tlaxcala, Mexico," September 1971, #3992-5038.
- (13) University of Kansas Biomedical Science Support grant for a project entitled: "Genetic micro-differentiation of an isolated population, Tlaxcala, Mexico," October, 1971, Grant # 4851-5706.
- (14) U.S. Office of Education Grant: "Environmental influences on learning in an Afro-American community." \$39,157, 1972-4, Grant # OEG-0-72-1383.
- (15) University of Kansas Biomedical Science Support Grant for a project entitled "Genetics, growth, and dermatoglyphics of a Down's Syndrome population." Grant #4916-5706. 1972-3.
- (16) University of Kansas Faculty Research Fund Grant for a study entitled "Population structure and evolution of a Mennonite isolate community: Alexanderwohl," Grant #3326-5038. 1973-4.
- (17) Biomedical Sciences Support Grant, entitled "Genetic differentiation of Alaskan and Siberian Eskimo populations." #4033-5706.

- (18) General Research Grant, "Human biology of the Pygmy populations of the Cameroons." #3992-5038. 1974-5
- (19) NIH grant #DE04115 from 14/01/75 to 03/31/77 "Dental evolution of transplanted Mexican populations," \$62,900.
- (20) Biomedical Sciences Research Grant, #4181-5706, for the "Analysis of dermatoglyphics of Mexican and Spanish populations," 1974-5.
- (21) General Research Fund Grant #3108-5038 "Genetic variability of erythrocytic proteins," 1975-6.
- (22) Biomedical Sciences Support Grant, "Belizean Study," #4349-5706, 1976.
- (23) Biomedical Sciences Research Grant, "Growth, fertility and the sickle cell trait in Black Carib populations of Belize, Central America," #4309-5706, 1976-7.
- (24) Faculty Senate Research Committee, "Genetic and demographic effects of mosquito eradication in Belize," #3507-x038, 1976-7.
- (25) NIH Research Career Development Award at \$30,000 per year for 5 years for the study "Genetic analysis of dentition in Eskimo and Mexican populations," 1976-81, \$150,000.
- (26) National Science Foundation Grant #BNS576-11859, "Genetic micro-differentiation of the indigenous populations of Northeastern Siberia and Northwestern Alaska," 1977-79, \$45,800.
- (27) National Institute of Aging, "Development of methods for the study of aging," subcontract from RISM, \$15,500, 1/1/79-12/31/79.
- (28) National Cancer Institute Contract #263-77-c-0521, "Genetic study of leukemia in a Baboon sibship," \$15,000, 1977-80.
- (29) National Institute of Aging, "Aging among the Mennonites of Kansas and Nebraska," 1979-82, \$364,000.
- (30) Biomedical Research Support Grant, "Genetic epidemiology of St. Vincent Island," 5/16/79-5/15/80.
- (31) General Research Fund, "The relationship between cancer and inbreeding in a Baboon sibship," 7/1/79-6/30/80.
- (32) General Research Fund, "Isolation, religion and genetic structure of Fogo Island," 7/1/81-6/30/82.

- (33) Australian National University Fellowship to the John Curtin School of Medical Research, 1982.
- (34) Wenner-Gren Foundation Grant, "Population structure of Fogo Isl.," 1982-3, jointly awarded to MHC and T. Koertvelyessy.
- (35) Biomedical Research Support Grant, "Genetic and demographic effects of the relocation of Hmong refugees," 1983.
- (36) Soviet Academy of Medical Sciences, fellowship covered expenses for a lecture/research trip to Novosibirsk, Siberia, 1983.
- (37) General Research Grant, "Demographic, genetic and linguistic changes in Russian Old Believers," 1984-5.
- (38) General Research Grant, "The genetic and demographic effects of settlement on Australian Aborigine hunting and gathering population," 1985-6.
- (39) National Cancer Institute and USSR Academy of Medical Sciences exchange grant for field work in Sukhumi on Baboon Lymphoma. 1985.
- (40) National Academy of Sciences Exchange Fellowship Program for a one-month visit to Hungary in order to develop a research project on the population structure of Hungarian rural villages. 1986.
- (41) General Research Grant, "Genetic structure of an urban population: Minneapolis/St. Paul, " 1986.
- (42) Earthwatch Grant, "Population structure of Tiszahat, Hungary," \$22,500, 1987.
- (43) Earthwatch Grant, "Population structure of Tiszahat, Hungary," 1988, \$13,500, funded but P.I. declined.
- (44) Research Improvement Award, "Establishment of the Midwest Twin Register," \$32,000, 7/1/87-6/30/90.
- (45) Distinguished Visiting Fellowship from LaTrobe University, Australia (6 weeks), 1989.
- (46) NCI-Fogarty Foundation and the USSR Academy of Medical Sciences fellowship for fieldwork in Sukhumi, USSR for the study of the "Localization of the genetic locus for lymphoma predisposition," June, 1989.

- (47) USSR Academy of Sciences, Siberian Branch, fellowship for fieldwork on the "DNA RFLP variation of the Evenks of Central Siberia," July, 1989.
- (48) Contract between Wayne State Press and the University of Kansas for the operation of the Editorial Office for the journal *Human Biology*, 1989 to 1994, \$25,000 per year on a matching basis.
- (49) General Research Fund, grant for fieldwork in Siberia "Genetics of Siberian Populations and the Peopling of the New World." 1/7/90 to 31/6/91. \$7,863.
- (50) National Science Foundation and Man and the Biosphere (MAB) Program, grant for field research in Siberia "Biological Diversity and Ecology in the Evenks of Siberia," BSR-9101571, 1/1/91-12/31/93, \$49,724.
- (51) Fulbright Fellowship from the Indo-US Sub-commission on Education and Culture for a study entitled "Population structure of subdivided rural Indian communities." 1990-1.
- (52) Grant from the Natural Sciences and Engineering, Research Council of Canada, for a project "Ecology and biological diversity of Siberian Reindeer Herders," with William Leonard (PI). 3 years (1991-4), \$25,000/year.
- (53) General Research Fund, University of Kansas, "Molecular Genetics, Ethnohistory and the Caste System of India," 7/1/92-6/30/93.
- (54) Scottish Rite Schizophrenia Research Program, "MZ and DZ Concordance among Schizophrenia-related Phenotypes," Co-PI with Rue Cromwell and H.E. Spohn, 8/1/92-7/30/93, \$34,500.
- (55) Wenner-Gren Foundation Conference grant for the organization of a symposium "DNA Inter- and Intra-population Variation," held at the Human Biology Council Meetings in Toronto, April, 1993. This grant was awarded jointly to MHC and Cynthia Beall (Case Western Reserve).
- (56) General Research Fund, Fy94, "DNA variation in coastal Kamchatka and the peopling of the New World," 7/1/93-6/31/93.
- (57) Contract between Wayne State University Press and the University of Kansas for the publication of Human Biology. \$32,000/year, on a matching basis, 1994-1999.
- (58) Overland Park Medical Center Excellence Grant, "Transmissibility of risk of pre-maturity in twins," co-PI with Dr. Paul Winchester, 1994.
- (59) General Research Fund, Fy95 "Chronic high dosage irradiation and mutations in the South Ural populations of Russia: Pilot study." \$6,884. 7/1/94- 3/31/95.

- (60) General Research Fund, Fy96 "Mennonite Biological Aging," \$6,489, 7/1/95 - 6/31/96.
- (61) Chiang Ching-kuo Foundation, "The Yaos of South China: Languages and People," funded to Hong Kong University, co-PI William Wang. \$80,000 7/1/96 - 6/31/98.
- (62) Wenner-Gren Foundation, "Genetic Structure of Old Believer Populations of Siberia and Oregon: Ethno-history based on DNA markers," \$15,000. May 1, 1996- April 31, 1998.
- (63) LaTrobe University, "DNA extraction from Mennonites: Apolipoprotein variation and lipid levels," 1995-7.
- (64) University of Pennsylvania Medical Center, "BRCA1 and BRCA2 candidate genes for breast and ovarian cancer," 1996-7, support for research assistant.
- (65) National Geographic Society, "Adaptation to severe cold in Evenki populations," with Bill Leonard (University of Florida). \$20,000, 1997-1998
- (66) General Research Fund Grant, FY98, "Molecular Genetic Approaches to the Study of Admixture in Native Populations of the Americas." \$6,691, 1997-8.
- (67) Metabolic Adaptations to Severe Cold in Siberian Populations." General Research Fund. FY99, University of Kansas, \$5,173, 1998-9.
- (68) National Science Foundation, OPP-990590: "Origins of Aleuts of Alaska and Siberia," PI with co-PIs Dennis O'Rourke and Dixie West, Polar Studies and Physical Anthropology Programs \$160,000, 1999-2002, Supplement 2001, \$15,800.
- (69) National Geographic Society, "The Spanish Basque Diaspora: Genetic and Demographic Consequences," as co-PI with Arantza Gonzalez-Apraiz \$19,807, 2001-2003.
- (70) Kansas Health Institute, "Research assistantship for Mennonite Mortality Analysis." 2001.
- (71) Office of Attorney General's Settlement Fund, PI, "Lipids, Health, and Coronary Heart Disease," 01/08/2002-31/07/2004, \$132,120.
- (72) National Science Foundation, PI, "Origins of Aleuts of Alaska and Siberia," Supplement: 2002-2003. \$14,800
- (73) National Science Foundation, Collaborative Research, OPP-0327676: "Molecular Perspectives on Aleut Origins" PI, with Dennis O'Rourke and Dixie West, Polar Studies and Physical Anthropology Programs, Renewal 09/1/03-08/31/07, \$255,000.

(74) General Research Fund, FY 2005, "African admixture in St. Vincent Black Caribs". 7/1/2004-6/31/2005.

(75) NSF supplement, FY 2006, PI, Molecular Perspectives on Aleut Origins, 8/1/06-7/31/07, \$14,440

(76) Higuchi Award for excellence in research, \$10,000, 8/1/06-7/31/11.

(77) International Studies Research grant, PI, for a collaborative project with the University of Costa Rica, Department of Genetics. \$10,000, 2/1/07-6/31/07.

(78) Funds from the Office of the Provost for the establishment of the International Consortium for the Study of Tuberculosis (\$10,000), PI, FY 2007-8.

(79) General Research Fund FY 2007 Genetic structure of Central American populations. \$8,618, 7/1/07-6/31/08.

(80) Sponsorship of post doctoral fellowship awarded by CONACYT of Mexico to Alvaro Badillo-Diaz for training in the Laboratory of Biological Anthropology in the genetics of diabetes (2008-9). Additional support provided by the Diabetes Center, KUMC.

(81) Post doctoral visiting scientist (Wadsworth Award) given by Wenner Gren Foundation for Anthropological Research to Barnabas Darnborno (Nigeria) for training at the LBA in molecular genetics (2009).

(82) General Research Fund FY 2009 Origins and Genetic Structure of Maya populations of Mexico and Guatemala, \$9,865.

(83) General Research Fund FY 2011 Mapping Genes for Latent Autoimmune Diabetes of Adulthood (LADA): Pilot Study, \$9, 860.

(84) General Research Fund FY 2013 Origins and Migration Patterns in Central American Indigenous Populations based on DNA variation: Past and Present, \$10,575.

(85) Institutional Development Grant (IDG) Wenner-Gren Foundation for the development of a doctoral program in Anthropology at the State University of Haiti, Port-Au-Prince, Partnership Coordinator, \$150,000. PI-Kiran Jayaram.

(86) Cluster grant from Latin American and Caribbean Studies: Forced Migration of Black Caribs from St. Vincent Island to Roatan and Central America," \$5,000.

(87) National Geographic Society Genography (GENO 2.0) grant proposal (#178163) Project Title: "Causes and Consequences of Migration into the Aleutian Islands," \$50,000. PI, funded.

(88) National Geographic Genography (GENO 2.0) grant proposal “Origin, Migration and Genetic Boundaries of the Chibchan-speaking Populations from Central America,” Co-PI. The PI is Norberto Baldi Salas (University of Costa Rica), \$50,000 funded.

(89) Craig Anthony Arnold Faculty Stipend for submission of an outstanding GRF proposal, \$1,200 allocation from CLAS.

(90) General Research Fund FY 2016 Research collaboration with NIMH on mapping genes for bipolar disorders, \$9,500

(91) National Geographic Society, “The Edge (St. Lawrence Island)”, A collaboration between a photo-journalist and an anthropological geneticist. \$44,000.PI: Alvaro Laiz, Madrid (pending)

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1969

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1967

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1966

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TEACHING

Selected by Change magazine for a feature article as an innovative teacher, 1978.

6-week television series on Educational TV, Seattle, 1962

COURSES AND SEMINARS GIVEN:

Anthropological Genetics
Introduction to Biological Anthropology
Human Variation and Evolution
Population Dynamics
Biological Anthropology of Amerindians (Origins of Native Americans)
Biological Bases of Human Behavior
Genetics of Isolates
Biology of Aging
Controversies on the Living and the Dead
Human Evolution
Field Methods and Theories
Laboratory Methods
Grant Proposal Writing
Human Bio-cultural Adaptation
History of Anthropology
Current Issues in Biological Anthropology
Unraveling History with Molecular Genetics (Fall, 1999)
Application of Molecular Genetics to Human Biology (Spring, 2000)
Research Methods in Anthropological Genetics (Fall, 2001)
Theories of Biological Aging (Fall, 2003)
Human Diaspora
Human Migration: Causes and Consequences seminar

Graduate Teaching:

Michael H. Crawford has chaired 39 dissertation committees and a total of 31 MA thesis

committees, 23 at the University of Kansas. The following graduate students obtained their PhDs under his supervision. A listing of their present academic appointments is included:

Linda Klepinger, 1972, University of Illinois, Professor Emerita

Robert A. Halberstein, 1973, University of Miami, Former Chair, Professor, Emeritus

Paul Lin*, 1973, University of Chicago, Research Director of Psychiatric Institute. Retired.

Paul Sciulli, 1974, Ohio State University (he completed PhD at Pittsburgh after Dr. Crawford moved to Kansas) Emeritus Professor

Douglas Ubelaker, (co-chaired Ph.D. committee with T.D. Stewart) 1973, Smithsonian Institution, Chair of Division

Stewart Shermis*, 1974, Long Beach State University

Francis Lees, 1975, SUNY-Albany, Rockefeller University, Currently: Chief of Communications at the Museum of Natural History, NY, Retired

Martin Nickels, 1975, Illinois State University, Professor Emeritus.

Kenneth Turner*, 1976, University of Alabama, Associate Professor, Director of a museum in Oklahoma.

Robert Baume, 1981, Connecticut Health Department, Chief Researcher--retired

Dennis O'Rourke, 1980, Foundation Professor KU , Associate Dean, Program at Utah Director for Physical Anthropology, NSF, President of the American Association of Physical Anthropologists.

Pamela J. Byard, 1981, Case Western Reserve University Medical School, Department of Pediatrics, Associate Professor, currently in the private sector.

Janis Hutchinson, 1984, University of Houston, Professor, Former President of the Black Anthropologists Association

Laurine Oberdieck Rogers, 1984, Idaho State University, Iowa State University, Adjunct Associate Professor

Lorena Madrigal, 1988, Southern Florida University, Professor, former President of the American Association of Physical Anthropology.

Rosalind Harding* 1988, Oxford University, Institute of Molecular Medicine, Lecturer (Ph.D. from LaTrobe University, Melbourne, Australia).

Sueb-sak Sirijaraya, 1988, University in Bangkok, currently in private sector.

Meredith Uttley, 1991, Idaho State, Lander University, Professor and Chair

Yasmin* 1991 Research Staff at Cambridge University. (Ph.D. from Andhra Pradesh University, Waltair, India).

Anthony G. Comuzzie, 1993, Southwest Foundation for Biomedical Research, Scientist (equivalent to Professor) Currently President of Obesity Society

Ravi Duggirala 1995 University of Texas at San Antonio Medical Center, Associate Professor of Medicine and Genetic Epidemiology, currently: Professor at University of Texas Medical School, SW Foundation for Biomedical Research—former President of the American Association of Anthropological Genetics.

Gillian Wagner* 1995 Edinburgh University, Post-doctoral fellow (Ph.D. from the Australian National University, Canberra).

Rector Arya, 1999 University of Texas at San Antonio Medical Center, Post doctoral fellowship; currently: Assistant Professor in Genetic Epidemiology.

Lisa Martin, 1999 Southwest Foundation for Biomedical Research, San Antonio, Post doctoral fellow; currently is Professor in Genetic Epidemiology, University of Cincinnati

Joseph McComb, 1999 Merck Pharmaceutical Company, NJ --scientist

Kari North, 2000 Southwest Foundation for Biomedical Research, San Antonio, post-doctoral fellow; currently: Professor, University of North Carolina, Chapel Hill, Dept. of Epidemiology.

Sobha Puppala, 2001 Case Western Reserve University, Post-doc. Fellow, scientist, SW Foundation for Biomedical Research

M.J. Mosher, 2002 Post doctoral fellow, Laboratory of Biological Anthropology, University of Kansas 2002-3; Post doctoral fellow, Department of Epidemiology, University of North Carolina, Chapel Hill; currently: Associate Professor, Western Washington University.

S. Manga, 2003 Witwatersrand University, External Reviewer

Rohina Rubicz 2007 Post doctoral fellow, scientist, Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio. Currently: scientist at Hutchinson Center, Seattle.

Phillip E. Melton, 2008 Post doctoral fellow (Cowles Fellowship), Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio. Associate Professor, Western Australian University, Perth, Australia.

Mark Zlojutro, 2008, Post doctoral fellow (Cowles Fellowship), Scientist, Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio.

Kristin Young, June, 2009. Post doctoral fellow, University of Kansas Medical Center, Kansas City, KS, Post doc University of North Carolina—Chapel Hill., currently: Research Assistant Professor

Jay Sarthy, Self Fellow, July 16, 2009 defended dissertation in Genetics Program. Northwestern Medical School, Fall, 2009, Ph.D. and M.D..

Geetha Chitoor, 2009, Genetic Epidemiology of Blood Pressure in Mexican Americans of San Antonio, Post Doctoral Fellowship (Cowles Fellowship) at SFBR, San Antonio. Currently: University of North Carolina; Currently: Gersinger Institute

Anne Justice, 2011 Genetic structure of Ch'orti Maya from eastern Guatemala, post doc University of North Carolina, Currently: Gersinger Institute, PA

Christine Phillips Krawczak—Genetics Program, 2012, post doctoral fellow, Mayo Clinic, Rochester, Minnesota

Norberto Baldi Salas, 2013, Assistant Professor, University of Costa Rica

Jasem Theyab, 2013, Assistant Professor, University of Kuwait

Mirna Ochoa, 2016, Politechnical University, Mexico City (external reviewer)

Kristine G. Beaty, 2017 Lecturer, Department of Anthropology, University of Kansas

Delisa Phillips, 2017

Melody Ratcliffe, 2018 (summer defense)

Randy David, 2018 (summer defense)

MA Thesis committees chaired (Total 31):

Robert Halberstein (University of Pittsburgh), 1971

Amy Ferrara (University of Pittsburgh), 1971

Sharon Warner, 1974
Laurine Oberdieck, 1975
Mary Oldfield, 1978
David Busija, 1974
Sueb-Sak Sirijaraya, 1984
Elizabeth Grieco, 1989
Robert Baume, 1977
Dennis O'Rourke, 1976
Michael Bamshad#, 1995
Lisa (Walawander) Martin, 1993
Jennifer Giesler, 1994
Kari North, 1995
Joseph McComb---won best thesis competition CLAS, 1996
Mary Ellerd, 2000
Alexa Pfeiffer, 2000
Kristen Melvin, 2001
Rohina Rubicz---won best thesis competition CLAS, 2001
Jennifer Rack, 2005
Phil Melton, 2005
Mark Zlojutro--thesis selected in 2006 to represent University of Kansas at Midwestern Distinguished thesis competition. He won the best thesis award for the Midwest University competition.
Anne Justice, 2007
Kristie Beaty, 2009
Jasem Theyab, 2010
Orion Graf, 2010
Jacob Boyd, 2014
Stephen Johnson, 2013
Jennifer Vang, 2014—non-thesis
Amber Ables, 2016—non-thesis
Sarah Alden, 2017--honors

Doctoral & MA committees:

Al Johnson, MA, 1978; Paula Trapp, MA, 1980; Paula Trapp, Ph.D., 1987; Steve Corbett, MA, 1998; Mary Sundal, MA, 2002; Georges Pearson, Ph.D., 2002; Angela Kempf, MA, 2003; Virginia Hatfield, Ph.D., 2005, Majid el Zein (Molecular Genetics), 2012., Chad Gerhold, 2017

Post doctoral and visiting fellows:

Eric Devor, Integrated DNA Technologies, Iowa

Joan Stevenson, Western Washington University

Yulya Kashinskaya, Institute of Cytology and Genetics, Russia

Tibor Koertvelyessy, Ohio University

M. Sirajuddin, Anthropological Survey of India, New Delhi (Fulbright)

Dario Demarchi, CONICET sponsored, Cordoba University, Argentina, 1998

Mohan Reddy, Indian Statistical Institute, Calcutta (Fulbright)

Paul Lin, University of Chicago

Tatyana Karafet, University of Arizona (formerly: Institute of Cytology and Genetics, Siberian Branch of the Russian Academy of Sciences)

William Leonard, Northwestern University (sabbatical leave)

Beata Przybyla, University of Warsaw

Nadya Blagitko, Institute of Cytology and Genetics, Novosibirsk

Victor Spitsyn, Institute of Medical Genetics, Moscow

Arantza Gonzalez Apraiz, Basque University, Bilbao, Spain, 2000-3

MJ Mosher, University of North Carolina, Chapel Hill, 2003

Dario Demarchi, Museum of Anthropology, Cordoba, 2004

Larissa Tarskaia Nichols, Institute of Medical Genetics, Moscow, 2005; 2007

Alvaro Badillo-Diaz, Politechnical University, Mexico City, 2008-9

Barnabas Darnborn, Medical School, Zaira, Nigeria, 2009

Lourdes Munoz, Politechnical University, Mexico City, 2015-6

+In 1996 J. McComb was co-winner of the best MA thesis award in the College. He represented the University of Kansas in the Midwestern competition.

^In 2002 Rohina Rubicz's MA thesis was selected as the best in the College of Liberal Arts and Sciences.

*Outside Referee of dissertation

#Came to K.U. with an MD degree, completed an M.A. in Genetics-Anthropology

PROFESSIONAL PRESENTATIONS

1965

Northwest Anthropological Conference, Bellingham, Washington. Paper: "A reevaluation of the taxonomy and phylogeny of the Hominoidea based upon biochemical and cytogenetic evidence."

American Anthropological Association Meetings, Denver, Colorado. Paper: "Acid phosphatase in Primates: A preliminary report."

1966

American Association of Physical Anthropologists, Berkeley, California. Paper: "Red-cell glucose-6-phosphate dehydrogenase variation in Primates," with A.Morrow and A.G. Motulsky. Abstract in Amer. J. Phys.Anthro. 27:243.

Northwest Anthropological Conference, Banff, Canada. Paper: "Serum pseudocholinesterase polymorphism in Primates."

1967

American Association of Physical Anthropologists, Chapel Hill, North Carolina. Paper: "Serum pseudocholinesterase in the Hominoidea." Abstract in A.J.P.A. 28:243.

American Anthropological Association, Washington D.C. Paper: " Red-cell polymorphisms in the Hominoidea."

Colloquium at the University of Pittsburgh, "Biochemical genetics and Primate evolution."

Colloquium at the University of Wisconsin-Milwaukee, "Primate biochemical genetics and evolution."

1968

The Damiani lecture at the University of Rome, June, "Primate evolution viewed from a molecular perspective."

American Association of Physical Anthropologists, Detroit, Michigan. Paper: "Serum pseudocholinesterase in the Prosimii, Cercopithecoidea, and Ceboidea," with D. Hadden. Abstract in A.J.P.A. 29:129.

International Primatological Association Meetings, Atlanta, Georgia. Paper: "Determination of paternity of group born Macaques," with R. Simmons.

Yugoslavian Anthropological Association Meetings, Andrejevlhe, Yugoslavia. Paper: "Protein

polymorphisms in the Hominoidea."

American Anthropological Association Meetings, Seattle, Washington Chair and organizer of symposium: "Urban Anthropology: Man's biological adaptation."

Co-chair with Thomas Weaver, School of American Research Symposium, "Urban Anthropology." Santa Fe, New Mexico, November 17-20.

Public lecture, sponsored by the American School of Research, "An anthropologist looks at the city," November 18.

Colloquium at the University of Wisconsin-Madison "G-6-PD variation and primate evolution."

University of Torino, Italy, public lecture on "Molecular genetic and primate taxonomy."

Colloquium at the University of Illinois-Urbana on "Molecular genetics and primate evolution."

Colloquium at CUNY-Hunter on the "Molecular genetics of the Hominoidea."

1969

American Association of Physical Anthropologists, Mexico City. Paper: "Preliminary report on the demographic trends in an Italian Alpine isolate," with D. Depaulis and L. Grosspietro. Abstract in A.J.P.A. 31:225.

Colloquium at the New York Central Blood Bank, New York. Paper: "Genetic variation in the Hominoidea."

1970

American Association of Physical Anthropologists, Washington D.C. Paper: "Estimates of selection and hybridization in a Mestizo population, Tlaxcala, Mexico," with W.C. Leyshon. Abstract in A.J.P.A. 33: 127.

Paper: "Demographic comparison of a Mestizo and Indian population," with R. Halberstein. Abstract in A.J.P.A. 33: 132.

Chairman of session: "Human Phylogeny."

Colloquium at the University of Kansas, Lawrence: "Admixture in Tlaxcaltecan Mexican populations."

1971

Chair and organizer of a 5-day conference entitled: "Methods in Anthropological Genetic," sponsored by the American School of Research, Santa Fe, New Mexico. February 26-30.

Paper: "Use of the genetic markers of the blood for population studies."

American Anthropological Association Meetings, New York. Paper: "Genetics of the Irish Tinkers."

American Association of Physical Anthropologists, Boston.

Paper: "Human biology of the itinerant (Tinker) populations of Ireland," with P. Sciulli, G. Gmelch and W.C. Leyshon.

Chair of session entitled "Techniques for population analysis." Abstract in A.J.P.A. 32: 351.

Colloquium at the University of Arizona, entitled "Population genetic studies of Tlaxcaltecs."

1972

American Association of Physical Anthropologists, Lawrence, Kansas Paper: "Inbreeding and its consequences in a frontier community in the Dominican Republic," with M.V. Geffroy, P. Brockington and J. Geffroy. Abstract in A.J.P.A. 37: 437

Chair of a Workshop "Recent developments in Hominoid evolution."

Chair of session "Anthropological Genetics."

American Anthropological Association Meetings, Toronto, Canada Paper: "Biological anthropologists in the city."

Discussant in a session entitled "Anthropology Take it or leave it."

American Association for the Advancement of Science, Washington D.C. Paper: "Selection of behavioral adaptation: The urban dilemma," in a symposium entitled: "Interdisciplinary approaches to community health."

Lecture sponsored by the Visiting Anthropologist Program (American Anthropological Association) in St. Mary's of the Plains College, Dodge City. Lecture on human evolution.

1973

American Association of Physical Anthropologists Meeting in Dallas Paper: "Genetic hybridization of Mexican populations." Abstract in A.J.P.A. 40: 128. Chair of a session in Population Dynamics.

IXth International Congress of Anthropological and Ethnological Sciences, Chicago. Paper: "Population dynamics in Tlaxcala, Mexico: The effects of gene flow, selection, and geography on the distribution of gene frequencies."

Conference on Biosocial Interrelations in Population Adaptation, Detroit, Michigan. Paper: "Genetic affinities and origin of the Irish Tinkers." (published in a volume titled after the conference).

Conference on Anthropology and Health, Columbia, Missouri. Paper: "Interdependence among disease, culture, and culture change."

American Anthropological Association, New Orleans. Paper: "The demography and genetics of the Irish Tinkers." Discussant in a symposium: "Demography and Biological Anthropology."

Colloquium at the University of Chicago entitled "Demography of transplanted Tlaxcaltecan populations."

1974

American Association of Physical Anthropologists, Amherst, Mass. Paper: "Breakdown of a genetic isolate: Acceglio, Italy." Abstract in A.J.P.A. 41: 473. Chairman of a round table discussion group.

American Anthropological Association, Mexico City. Chairman and Organizer of an all-day symposium "Population Studies in Tlaxcala, Mexico." Paper: "Introduction: Problems and hypotheses," and "Genetic differentiation of transplanted Tlaxcalan populations."

1975

Society for Applied Anthropology, Amsterdam, Holland. Paper: "Population movements in Mexico," invited presentation in a symposium on Population Movements.

American Association of Physical Anthropologists, Denver, Colorado. Paper: "Genetic divergence of a transplanted population: Cuanalan." Abstract in A.J.P.A. 42: 296.

American Anthropological Association, San Francisco, California. Paper: "Dental evolution in Tlaxcaltecan populations."

Visiting Anthropologist Program (AAA) April 23-24, presentation "The study of evolution in contemporary populations." Iowa

Colloquium at the Free University of Amsterdam, Human Genetics Department, presentation entitled "Population genetics of transplanted Tlaxcaltecan populations."

1976

American Association of Physical Anthropologists, St. Louis. Paper: "Estimates of Indian admixture in the Black Carib population of Livingston, Guatemala," with Nancie Gonzalez. Abstract in A.J.P.A. 44: 172-173.

Kansas Anthropological Society, Wichita. Paper: "Admixture in Tlaxcala populations."

Colloquium at the University of Connecticut, Storrs. Presentation entitled "Genetic studies of Black Carib populations."

Invited public lecture to the Institute of Genetics and Cytology of the Siberian Branch of the USSR

Academy of Science, Novosibirsk, USSR: "Population genetics of Black Carib populations."

1977

Kansas Anthropological Society, Topeka. Paper: "Biological aspects of aging," with Mary Jane Moore.

American Association of Physical Anthropologists, Seattle. Paper: "Fluctuating dental asymmetry in Mexican Indian populations," with DH O'Rourke. Abstract in A.J.P.A. 47:153.

American Anthropological Association Meetings, Houston. Organized and chaired an all-day symposium: Population Biology and Culture History of the Garifuna (Black Caribs) of Central America I and II. Paper: "Genetic micro-differentiation and admixture in Garifuna populations." Discussant in symposium.

Invited presentation at the Fifth joint meeting of the US-USSR Cancer Virology group, Bethesda, Maryland: "Genetic predisposition for lymphoma in a Baboon sibship."

Colloquium at the University of Alabama to the Department of Anthropology, "Microdifferentiation of Tlaxcalan Indian populations in Mexico", and to the Medical School "Genetics and abnormal hemoglobins in the Black Caribs of Guatemala and Belize."

American Dermatoglyphics Association Meetings in Gulf Shore, Alabama. Invited Paper: "Universals in dermatoglyphic traits," with P. Lin.

US-USSR symposium on Peopling of the New World, National Academy of Sciences, Washington D.C., Invited discussant.

1978

American Association of Physical Anthropologists. Toronto, Canada. Paper: "Biological and demographic characterization of the migrants of Saltillo and Cuanalan, Mexico." Abstract in A.J.P.A. 50: 431.

Colloquium at the National Institute of Anthropology, UNAM, in Mexico City, presentation entitled "Population studies at the Laboratory of Biological Anthropology, University of Kansas."

International Congress of Genetics, Moscow, USSR. Paper: "Population structure and abnormal hemoglobins in Black Caribs of Central America."

American Anthropological Association Meetings, Los Angeles. Paper: "Ethnicity and biology of the Black Caribs and Creoles of Central America."

International symposium on Genetic Isolates, Mariehamn, Aland Islands, Finland. Invited paper: "Breakdown of reproductive isolation in an Alpine genetic isolate: Acceglio, Italy."

1979

American Association of Physical Anthropologists, San Francisco.

Paper: "Population structure of Alaskan and Siberian indigenous communities," with J. Mielke, D. Dykes and H. Polesky. Abstract in A.J.P.A.50:431.

Paper: "Anthropometric variation and isolation by distance in Western Ireland, 1936," with J. Relethford and F. Lees.

Kansas Anthropological Society, Lawrence. Paper: "Ethnohistory and demography of St. Lawrence Island," with P.J. Byard.

American Ethnohistorical Society, Albany, New York. Invited Paper: "Ethnohistory and demography of St. Lawrence Island," with P.J. Byard.

1980

American Association of Physical Anthropologists, Niagara Falls, NY. Paper: "Population genetic models in the study of longevity in a Mennonite community," with Laurine Rogers. Abstract in A.J.P.A. 52(2): 216.

Discussant in a symposium on Genetic Epidemiology.

VIII Congress of the International Primatological Society, Florence, Italy. Papers: "Genetic variability and inbreeding among the baboons (*Papio hamadryas*) of Sukhumi, USSR," and "Heterogeneity of Tf, Gc, and PGM in baboons by isoelectric focusing," with D. Dykes and H. Polesky.

Colloquium at Cornell University, entitled "Biocultural adaptation of the Black Caribs of Central America."

Colloquium at the Human Genetics Department of the University of Newcastle upon Tyne, England. Presentation entitled "Population structure of the Eskimos of Alaska and Siberia."

Colloquium at the Department of Anthropology, Durham University, Durham, England. Presentation entitled "Population structure of the Black Caribs of Central America."

1981

American Association of Physical Anthropologists, Detroit, Michigan. Papers: "A comparison of mortality patterns in human populations residing under diverse ecological conditions," with P. Lin. Abstract in A.J.P.A. 54(2): 212.

"Determinants of average heterozygosity in Inuit populations," with P. Byard.

American Society of Primatologists, San Antonio, Texas.

Paper: "Inbreeding, heterozygosity and lymphoma risk among the baboons (*Papio hamadryas*) of Sukhumi, USSR, with O'Rourke. Abstract in the American Journal of Primatology 1:321.

American Anthropological Association, Los Angeles, California.

Paper: "Genetic variation, aging and longevity among the Mennonites of Kansas and Nebraska."

Chairman and organizer of symposium "Biological Approaches to Mennonite Aging and Longevity in Kansas and Nebraska."

1982

American Association of Physical Anthropologists, Eugene, Oregon. Paper: "Effects of geography and language on the genetic structure of indigenous populations of Siberia," with R. Sukernik. Abstract in A.J.P.A. 57: 177-178.

Soviet Academy of Medical Sciences, invited presentation, Novosibirsk: "Genetics and biology of Alaskan Eskimos in light of their origins and adaptation to harsh environment." (this title is a translation of the Russian version).

University-wide invited lecture, Australian National University. Title: "Aging and mortality: The Mennonites."

John Curtin School of Medical Research, ANU, Canberra, Australia. Presentation: "Population structure and biology of the Black Caribs."

Colloquium to the Department of Genetics and Human Variation, LaTrobe University, Melbourne, Australia. Title: "Population biology of the Black Caribs."

Colloquium to the School of Dentistry, University of Adelaide. Title: "Dental anthropology of Central American populations."

Colloquium to the Department of Anthropology, University of Utah, Salt Lake City. Title: "Human biology and ethnohistory of the Black Caribs."

1983

American Association of Physical Anthropologists, Indianapolis.

Papers: "Genetic structure of Mennonite populations of Kansas and Nebraska," with DD Dykes and HF Polesky. Abstract in A.J.P.A. 60:186.

"Marital movement, surname isonymy, and isolation in Burgeo, Newfoundland," with T. Koertvelyessy. Abstract in A.J.P.A. 60:214-215.

"Inbreeding in the Meridian Mennonites of Kansas," with S-S Sirijaraya. Abstract in A.J.P.A. 60: 254-255.

XIth International Congress of Anthropological and Ethnological Sciences, Vancouver. Papers: "Mennonite aging, longevity and genetics," with L. Rogers. "Age-sex interactions in the blood chemistry of the Mennonites," with S-S Sirijaraya. "Biological and demographic characteristics of third world migrants: Mexican case study."

1984

American Association of Physical Anthropologists, Philadelphia.

Papers: "The relationship between historical demography and genetic structure of Newfoundland populations," with T. Koertvelyessy and R. Huntsman. Abstract in A.J.P.A. 63(2): 148-9.

"The analysis of matings in selected Newfoundland communities with isonymy and surname-pair-matrices," with Koertvelyessy. Abstract in A.J.P.A. 63(2):179.

Colloquium at the Department of Anthropology, University of Washington, Seattle. Paper: "Biocultural adaptation of the Black Caribs of Central America."

Colloquium at the Institute of Anthropology, National University of Mexico, Mexico City. Paper: "Human biological research in Mexico."

American Association for the Advancement of Slavic Studies, Kansas City. Paper: "Population structure of the indigenous peoples of Siberia."

1985

International conference on "Genetic diversity and its maintenance in tropical populations," in Frascati, Italy, sponsored by the SSHB of England. Invited paper: "Genetic structure of Black Carib populations."

Human Biology Council meetings in Knoxville. Invited presentation at a plenary session. Paper: "Biology of the Midwestern Mennonites."

International Conference on the Biology of Rapid Modernization, Zagreb, Yugoslavia. Invited paper: "The effects of modernization on population structure."

Sigma Xi invited lecture at Western Washington University at Bellingham. Title: "Biological aging of Mennonites."

American Association of Physical Anthropologists, Knoxville, Tenn.

Papers: "Interactions of economic, religious preference, geography and migration on the population structure of Newfoundland," with T. Koertvelyessy. Abstract in A.J.P.A. 66: 159.

"Population affinities on Fogo Island, Newfoundland," with Koertvelyessy. Abstract in A.J.P.A. 66:190.

"Multivariate analysis of anthropometric measurements of the Mennonites," with S-S Sirijaraya. Abstract in A.J.P.A. 66: 232.

Second annual Ellen Brennan Memorial lecture at the University of Texas, Austin. Title: "Population studies of Black Caribs."

American Anthropological Association, Washington D.C. Invited papers: "Education and controversy: The same side of the same coin." "Biological aging: Genetic and cultural interactions."

Colloquium at the Institute of Experimental Morphology and Therapy, Sukhumi, USSR. Paper: "Genetic/environmental interactions and lymphoma in Baboons."

1986

Southwest Foundation for Biomedical Research Forum on "Genetic Research with Non-human Primates: Serving the Needs of Mankind." Invited paper: "The genetics of lymphoma susceptibility."

Invited opening address to the Third National Forum on Research in Aging: Health, Wellness and Independence. Address entitled: "Aging of the Mennonites of Kansas and Nebraska."

Invited lecture, University of Nebraska, March 13, 1986, "The history and biology of Black Caribs of Central America and St. Vincent."

US-USSR symposium on the Advances in Oncology, organized by the Committee on Medical Oncology of the University of Texas-Houston Medical Center. Invited presentation on the outbreak of lymphoma in the Sukhumi Primate Center, with Academician Boris Lapin.

Invited presentation to the Hungarian Academy of Sciences, Debrecen. Paper on the "Genetics of Black Caribs."

International Conference on Human Biology, Pes, Hungary. Paper: "Neuromuscular Aging."

American Association of Physical Anthropologists Meeting, Albuquerque, New Mexico. Paper was presented in a symposium in honor of James Spuhler's retirement.

Paper: "The geography of Mexican population structure." Abstract in A.J.P.A. 69: 191.

1987

American Association of Physical Anthropologists, New York, N.Y.

Presentation: "Baboon lymphoma susceptibility: A disease model." Abstract in A.J.P.A. 72: 190.

Chicago Academy of Sciences, invited public lecture, entitled "Hungarian Marriages."

Invited Colloquium at Ohio State University, Department of Anthropology. Presentation: "Genetic variation and ethnohistory of Black Carib populations of St. Vincent and Central America."

Invited Colloquium at Ohio University, Athens. Paper: "The biology of aging in Midwestern Mennonites."

Colloquium at the University of Massachusetts-Amherst, Dept. of Anthropology. Title: "Ethnohistory and population structure of Black Caribs."

Invited Earthwatch Public Lecture, Boston, Mass. Title: "Hungarian Population Structure."

Colloquium at SUNY-Old Westbury, Department of Neurobiology. Title: "Biology of Aging."

Invited lecture to the Polish Academy of Sciences, Wroclaw. Title: "The direction of Physical Anthropology in the United States."

1988

American Association of Physical Anthropologists Meeting, Kansas City, Paper: "Modernization and the genetic structure of Central America." Abstract in A.J.P.A. 75(2): 199-200.

Invited after-dinner speech to the Kansas Twins Association Annual Meeting in Salina, Ks, "Biology of Twins."

International Congress of Anthropological and Ethnological Sciences, Zagreb, Yugoslavia.

Invited Presentation: "Genetic structure of Black Carib populations,"

Presentation: "Political affiliation, modernization and mating structure in Fogo Island, Newfoundland," with T. Koertvelyessy.

1989

American Association of Physical Anthropologists Meeting, San Diego. Paper: "Genetic structure of the Mennonite populations of Kansas and Nebraska." Abstract in A.J.P.A. 78(2):207.

Invited lecture to the USSR Academy of Sciences, Novosibirsk, entitled: "Genetics of Anabaptist groups of the Midwest."

Colloquium in the Genetics Department, University of Hawaii, entitled: "History and Genetics of the Black Caribs of Central America."

Invited Workshop presentation on grant writing at Idaho State University, Boise. Title: "How to write a grant proposal."

Invited Colloquium at the Institute of Anthropology, University of Zurich, presentation entitled "Genetics of Mennonites: Micro-evolutionary aspects."

Invited distinguished lecture at LaTrobe University, Melbourne, Australia. Presentation entitled "Genetics of Biological Ageing."

Colloquium at the Dental School, University of Adelaide, Adelaide, Australia. Presentation was entitled "Genetic structure of human populations based upon dental traits."

Invited speaker at the Conference Banquet during the Australasian Society of Human Biology Annual Meetings in Canberra, Australia. This talk was entitled "The Genetics of Biological Ageing."

1990

American Association of Physical Anthropologists, Annual Meetings in Miami, Florida.

Presentation: "Dermatoglyphic patterns and genetic structure of Hungarian populations," with A. Comuzzie and T. Koertvelyessy. Abstract in A.J.P.A. 81(2): 209-210.

Presentation: "Repeating matings and isonymy in Tiszaszalka, Hungary," with T. Koertvelyessy et al. Abstract in A.J.P.A. 81(2): 251.

Paper: "Mating structure of Tarpa, Hungary, based on surname analysis," with Ravi Duggirala and T. Koertvelyessy. Abstract in A.J.P.A. 81(2): 217.

Colloquium at the Department of Anthropology, Johannes Gutenberg-University, Mainz, Germany, entitled "Genetic structure of Black Carib populations."

1991

American Association of Physical Anthropologists, Annual Meetings in Milwaukee, Wisconsin.

Presentation: "Migration and predicted kinship (Φ) in a rural, subdivided population: Tiszahat, Hungary," with T. Koertvelyessy. Abstract in A.J.P.A. Supplement 12: 62.

Presentation: "Coefficients of relationships by isonymy for villages in the Tiszahat region of Hungary," with T. Koertvelyessy, M. Pap, and K. Szilagyí. Abstract in A.J.P.A. 12:106.

Presentation: "Biochemical heterozygosity and morphological variation in a colony of Papio hamadryas," with M. Bamshad and D. O'Rourke. Abstract in A.J.P.A. 12:27.

Invited Colloquium, Department of Anthropology, Andhra University, A.P., India, "Biological aging among Mennonites of midwestern, USA."

Colloquium at New Delhi University "Biological Anthropology of the Black Caribs of Central America."

Colloquium at the National Institute of Health and Family Welfare, New Delhi "Genetics of

Biological Ageing."

Colloquium at the Institute of Immunohaematology, Indian Council of Medical Research, Bombay: "Genetics of Biological Ageing."

Colloquium at the Indian Statistical Institute, Calcutta: "Anthropological Genetics of Black Caribs."

Colloquium at the Anthropological Survey of India, Calcutta: "Anthropological Genetics in the USA."

Voice Foundation's 20th Anniversary Symposium, July, Philadelphia. Paper: "Genetics of human voice: Preliminary genetic analysis of voice fundamental frequency," with Beata Przybyla and Y. Horii.

1992

American Association of Physical Anthropologists, Annual Meeting in Las Vegas, Nevada.

Poster: "Biological diversity and ecology among the Evenki of Siberia," with W. Leonard and A.G. Comuzzie.

Abstract in AJPA Supplement. Poster: "Lipid and lipoprotein profiles among the Alexanderwohl Mennonites," with Ravi Duggirala; AJPA 87:72.

Poster: "Quantitative Genetics of T4 in Mennonites," with Lisa Walawander.

7th International Congress on Isozymes, Novosibirsk, Russia Symposium entitled: Studies on Genetic Polymorphisms of Tribal Societies. Invited Paper: "DNA Variation in Evenki Reindeer Herding Populations," with W. Leonard and A. Comuzzie.

Colloquium at the Department of Medicine, University of Indiana Medical School-Indianapolis: "DNA Variation in Siberian Indigenous Populations."

Human Genome Diversity Workshop, Pennsylvania State University, October-November, Invited Group Leader of the Arctic-East Asia Region.

1993

13th International Congress of Anthropological and Ethnological Sciences, Mexico City, DF. Organized symposium, entitled "Estructura Genetica de Poblaciones Indigenas Mesoamericanas." with Philippe Lefevre-Witier.

Presentation: "Genetic success of a colonizing population: The Black Caribs (Garifuna) of St. Vincent Island and Central America."

Presentation: "Population structure of indigenous populations of Tlaxcala, Mexico."

American Association of Physical Anthropologists, Annual Meeting in Toronto, Canada.

Organized a symposium on the "Use of Quantitative Traits in the Study of Population Structure: Dermatoglyphics."

Presentation: Relationship of dermatoglyphics to language, geographic and genetic distances in Eskimo and north Amerindian populations," AJPA S:16: 83, with R. Duggirala

Human Biology Council, Toronto:

Organized the plenary session: DNA inter- and intra-population variation.

Presentation: " DNA Inter- and intra-population variation in Siberian groups."

Poster: Estimation of daily energy expenditure in two Siberian populations using daily heart- rate monitoring, with Katzmarzyk, P.T., W. Leonard et al.

Human Genome Diversity Project, Alghero, Sardinia, September 9-12

Invited presentation on the populations of Siberia and SE Asia.

Lecture entitled "Molecular genetics and structure of Siberian populations," Siberian Branch of the Russian Academy of Sciences, Novosibirsk, August 27.

XVth World Congress of Neurology, Vancouver, Canada, Paper: "Concordance of headache in MZ and DZ twin pairs raised together and apart," with Dewey Ziegler et al.

American Anthropological Association meetings in Washington D.C.,

Paper: "VNTR variation in indigenous populations of Siberia."

1994

American Association of Physical Anthropologists annual meeting in Denver, Colorado:

Invited symposium presentation: "Population variation in five VNTR loci: Measures of genetic structure," with J. McComb and W. Leonard.

Paper: Biological and environmental determinants of lipids and lipoproteins in the Mennonites: A path analytical approach," with Ravi Duggirala. AJPA S: 18

American Association of Anthropological Genetics, inaugural meeting held in Denver, Colorado.

Plenary session lecture: "Anthropological genetics: Confluence of biological anthropology and human genetics."

International Conference "Horizons of Anthropology," in memorium of Valery Alexeev, September 20-22, Saltykovka, Moscow, Russia. Plenary Session:

Presentation: "DNA variation and the concept of race."

Session on Anthropology and historical reconstruction. Regional problems: "Population structure of indigenous Siberian populations and the peopling of the New World."

Lecture at the Population Center, Harvard University School of Public Health, Cambridge, Mass.: "Contributions of Biological Anthropology to Demography," December 1, 1994.

1995

American Association of Physical Anthropologists meeting in Oakland, California, March 30 - April 1, 1995:

Organized and co-chaired a symposium in honor of D.F. Roberts," published in the October 1997 issue of A.J.P.A.

Paper: "Genetic structure of Siberian indigenous populations," with Ravi Duggirala and J. Williams, A.J.P.A. S20: 73.

Presentation: "Contributions of D.F. Roberts to Biological Anthropology," text published in A.J.P.A. S20.

Paper: "A comparison of clinical blood chemistry levels in pre- and post-menopausal Mennonite women of Kansas and Nebraska," with L.J. Martin, A.J.P.A. S20: 144.

Poster: "Genetic homogeneity of Ireland," with K. North and L.J. Martin, A.J.P.A. S20: 163.

Paper: "Apolipoprotein E polymorphism and serum cholesterol levels among the Evenki herders of Siberia," with M.I. Kamboh, and W.R. Leonard, A.J.P.A. S20: 121.

Poster: "Variable number tandem repeat (VNTR) variation in the mountain Altai and other Siberian groups," with J. McComb, A.J.P.A. S20: 147.

Spanish Biological Anthropology Meetings in Zaragoza, Spain, September 21, 1995 Invited plenary session presentation: "Population biology of Siberian indigenous groups."

Colloquium of the Catalan Biologists of Barcelona, September 19, 1995 "Genetic structure of Siberian indigenous populations and its implications about the peopling of the Americas."

Colloquium of the Department of Biology, Basque University in Bilbao, September 25, 1995: "Molecular genetics of indigenous Siberian populations."

Invited Colloquium of the Department of Anthropology, University of Tennessee, Knoxville, Visiting Lecture Series, November 2, 1995, "Biology of the Mennonites of the Midwest: Genetics and Aging."

November 3 University of Tennessee, Graduate Colloquium: "Population Biology of the Evenki Reindeer Herders of Siberia."

1996

American Association of Physical Anthropologists, Durham, North Carolina, Paper: "Genetic structure of Ibiza," A.J.P.A. S21:

Human Biology Association, Durham, NC, Poster: "Attempted validation of the profile method for determining functional-biological age and predicting survival," with Meredith Uttley.

International Congress of Human Genetics, Rio de Janeiro, Brazil:

Organized a workshop on the relationship between molecular genetics and population structure. Paper: "Genetic structure of indigenous populations of Siberia"

Invited presentation with J. McComb in a symposium "DNA Polymorphisms" organized by Partha Majumdar: "The relationship between heterozygosity in standard markers and DNA markers.

Hong Kong University, Electrical Engineering and Linguistics; Colloquium: "Co-evolution of Languages."

Institute of Medicine, National Academy of Sciences, Washington DC

Presented commissioned paper, "Population patterns of molecular diversity and implications for behavior genetics," for an IOM Genetics, Health and Behavior Study, July 15.

1997

Organized a symposium on "The Last of the Pastoralists: Biocultural Dimensions." American Association for the Advancement of Science, Seattle, Washington, Feb. 15, 1997.

Paper: "Genetic structure of pastoral populations."

American Association of Physical Anthropology Meetings, St. Louis, MO, April, 1997.

Paper: "Quantitative Genetics of Voice Acoustics," with M. Hammer and J. Gilger, abstract published in A.J.P.A. S24: 96.

Poster: "Genetic diversity among Siberian indigenous groups measured using STRPs," abstract published in A.J.P.A. S24: 171.

Human Biology Association Meetings, St. Louis, MO, March 31, poster: "Molecular and population genetics of metabolic enzymes," with R.J. Mitchell, et al.

Colloquium in the Department of Psychiatry and the Human Genome Center, Columbia University: "Anthropological genetics and complex phenotypes in isolate human populations."

Chair of session, Evolution of the Major Histocompatibility Complex, at the HLA Workshop, sponsored by the American Association of Anthropological Genetics, and the Department of

Immunogenetics INDRE SSA, in Mexico City, November 10, 1997.

Evolutionist Club, University of Kansas, September 30, Lecture entitled, "Origins of Native Americans: Molecular Genetic Perspective"

1998

American Association of Physical Anthropologists Meetings, Salt Lake City, April, 1998. Invited paper: "Colonizing populations of Central America".

Human Biology Association Meetings, Salt Lake City, March 31, Paper: "Quantitative genetic analyses of phenotypes related to renal function in the Mennonites," *AJHB* 10: 122, with Ravi Duggirala and John Blangero.

International Congress of Anthropological and Ethnological Sciences, Williamsburg, VA, July. Organized a symposium entitled "Anthropological Genetics in the 21st Century."

Paper: "After the dance is over! Anthropological genetics after the completion of the Human Genome Project."

Arctic Archeology Conference, Fayetteville, Arkansas, October 30-1, "Affinities among Circumpolar populations: Molecular perspectives."

1999

Colloquium: "Peopling of the New World: Molecular evidence," University of Madrid Medical School, Madrid, Spain, February 8, 1999.

Sigma Xi lecture: "Peopling of the Americas: Molecular and Archeological Evidence," Fort Hays, KS, April 2.

American Association of Physical Anthropologists, Columbus, Ohio:

Invited paper "The use of pooled DNA in the reconstruction of population affinities," with Jim Knowles and Joe McComb, April 29.(Abstract) *American Journal of Physical Anthropology* S28: 171.

"Heritability of anthropometric phenotypes in caste populations of Visakhapatnam, India," *AJHB*, 11: 103-4, with R. Arya and R. Duggirala.

Mitchell, RJ, NG White, MH Crawford, J McComb, C Tyler-Smith, SS Papiha and MS Schanfield, "A deletion polymorphism in the $\alpha 2(1)$ collagen gene (COL1A2): Genetic evidence for a non-African population whose descendants spread to all continents (Abstract) *American Journal of Physical Anthropology* S28: 204-205.

American Anthropological Association Meeting, Chicago, Illinois, November 20th, Presidential Symposium. Paper: "Biology and Molecular Genetics: The Second Revolution."

November 19th, Discussant in a Symposium on Aging.

American Society of Human Genetics Meeting, San Francisco, Poster: "Examination of phylogenetic relationships among Siberian and Native American populations using pooled DNA samples," with Jim Knowles, Joe McComb, October 20th, Abstract: Amer. J. Hum. Genet. S65:A196.

Colloquium: "Peopling of the Americas: Molecular Perspectives," Northwestern University, November 19th.

Colloquium: "Peopling of the Americas: Molecular Perspectives," University of Alaska, Anchorage, November 30th.

Presentation to the Aleut/Pribilof Island Association (A/PIA) Board of Directors, November 30

2000

Evolutionary Aspects of Indian Health Problems, February 4, University of Texas Medical Center, San Antonio, TX

Biological Aging of Mennonites of the Midwest, Gerontology Seminar, University of Kansas Medical Center, KC, September 14

Human Biology Association, April 10-12, San Antonio, TX

Chair of Session "Genetics," April 11, 2000

Paper: "Population structure of Andhra Pradesh Caste groups of Visakhapatnam," with R. Arya, R. Duggirala, S. Puppala, and BR Busi. Abstract: American Journal of Human Biology 12 (2): 275.

Paper: "Genetic evidence for the relationship between Na-Dene and Yeniseian speakers," with K. Melvin and R. Rubicz Abstract: American Journal of Human Biology 12 (2): 276.

Poster: "Gene frequencies and phylogenetic position of Hueypan, Puebla, Mexico," with S. Puppala. American Journal of Human Biology 12 (2): 269.

American Association of Physical Anthropologists, April 12-14, San Antonio, TX.

Participant in a symposium: Perspectives on the Genetic Aging, April 13:

Presentation: "Biological Aging and survivorship among Mennonites of the Midwest," with Ravi Duggirala and Meredith Uttley. Abstract: American Journal of Physical Anthropology S30:131.

American Society of Nephrology, 33rd Annual Meeting, Toronto, Canada, October 11-16th. Paper: Genetic determination of variation in the estimates of creatinine clearance and glomerular filtration rate in the Mennonites, with R. Duggirala. J. of the American Society of Nephrology 11: A0650.

Arctic Anthropology Annual Meeting, October 3-4, 2000. "MtDNA variation in Aleut

populations," with Rohina Rubicz.

Latin American Association of Biological Anthropologists meeting, October 23-28, Piriapolis, Uruguay. Plenary Session, Invited Presentation: "Molecular genetic evidence for the peopling of the Americas."

Symposium paper: "Black Caribs (Garifuna) of Central America: A case study of human adaptation."

Invited Presentation to the Argentine Academy of Sciences, Cordoba, Argentina. "Peopling of the Americas: Molecular Perspectives", October 30, 2000.

2001

Evolutionists Club, Lawrence, KS. "Biological Aging and Survivorship in Mennonites," February 13.

American Association of Physical Anthropologists, Kansas City, MO., March 28, Discussant in a symposium on the "Peopling of Oceania."

Human Biology Association, Kansas City, MO, March 26, Introduction to a symposium: The Thread of Life: Applications of Molecular Genetics to Human Biology.

The Ethical, Legal, and Social Implications of Genetic Research on Medical Conditions affecting Indian and Native People, Aspen, Colorado, April 5-7.

Kansas Twins Society Meeting, Great Bend, KS, April 27, Invited presentation: The Biology of Twins and its applications to complex phenotypes: Voice Acoustics.

Invited presentation to the Aleut Corporation Board of Trustees, October 13, Anchorage, Alaska.

2002

Invited presentation and ceremonial induction into the Argentine Academy of Sciences, Cordoba, March 21 "Origins of Aleuts: Molecular and Archaeological Perspectives."

Human Biology Association annual meeting, Buffalo, NY. April 12th, Paper "Origins of Aleuts: Molecular Perspectives" at the plenary session.

Invited plenary presentation for the inauguration of the Anthropology Center, Fudan University, China, April 18, 2002.

Invited presentation, entitled "Biological Aging Among Mennonites of the Midwest," at the SW Foundation for Biomedical Research, San Antonio, August 9, 2002.

Presentation at the Arctic Anthropology Conference in Pocatello, Idaho, "Chronology of the

Peopling of the Aleutian Archipelago: Molecular Evidence." Nov. 2, 2002.

Cold Springs Harbor Symposium on Quantitative Biology. Molecular Genetic Symposium.
Presentation with Tad Schurr and Rohina Rubicz

2003

Human Biology Association, Tempe, Arizona, April 25-26:

Paper: "Mt-DNA evidence for founder effect and gene flow in human populations of the Aleutian Archipelago: Bering Island and the Pribilof Islands," with Rohina Rubicz, *Amer. J. Hum. Biol.* 15 (2): 257.

Poster: STR variation in a Basque population: Biscay Province, with AG Apraiz, M Zlojutro, and R Roy, *Amer. J. Hum. Biol.* 15 (2): 254 (Abstract).

Poster: HLA genes in the Chuvash population from European Russia: Admixture of Central European and Mediterranean populations, with Arnaiz-Villena et al, *Amer. J. Hum. Biol.* 15(2): 255.

Poster: MtDNA analysis in Yakutia: Implications for the genetic history of northern Siberia, with Zlojutro, M et al, *Amer. J. Hum. Biol.* 15(2): 291.

American Association of Physical Anthropologists, April 23-26, Invited discussant in a symposium on Behavioral Genetics.

Arctic Anthropology Association, November 7 and 8, Seattle, Washington. Paper: "Genetic and Demographic Consequences of Relocation of Aleuts to the Pribilof and Commander Islands," with Rohina Rubicz.

Colloquium: "Peopling of the Aleutian Islands: Molecular Evidence from the Living and the Dead." University of Washington, Seattle, November 6.

2004

Human Biology Association Meetings, Tampa, Florida, April 14-18

Poster: "The origin of Aleut populations and subsequent expansions: molecular perspectives," with Rohina Rubicz. Abstract in *Amer. J. Hum. Biol.* 16 (2): 221.

Paper: "Mitochondrial DNA variation in Yakutia: The genetic structure of an expanding of population," with Mark Zlojutro, Mark Sorenson, SS Snodgrass, and L Tarskaya. *Amer. J. Hum. Biol.* 16 (2): 230-1.

"Nutritional profiles, serum lipids and cardiovascular disease in Kansas Mennonites," with MJ Mosher, K Melvin, R Rubicz and M Zlojutro, *Amer. J. Hum. Biol.* 16 (2): 215-6.

"STR variation in Basque populations," with AG Apraiz, KJ Melvin, M Zlojutro, R Roy *Amer. J. Hum. Biol.* 16 (2): 194.

"MtDNA variation in Chibchan speaking groups from Sierra Nevada de Marta, northwest Colombia," with Phil Melton, SS Papiha, I Briceno and J Bernal. *Amer. J. Hum. Biol.* 16 (2): 214.

Mosher MJ, Melvin K, Rubicz R, Zlojutro M, Crawford M (2004) Evidence of sex-effect in the relationship of dietary sugar to variation in plasma lipids. Podium presentation, 3rd Nordic Epidemiology Conference, Koupio, Finland

2005

Lecture presented to the Anatomy Faculty of the Ross Medical School, Dominica: "Biological Aging in Mennonite Populations", March 24

Alaskan Anthropological Association Meetings, Symposium on Aleuts, March 10, "Genetic Structure of Bering Island."

American Association of Physical Anthropologists, April 5-9, Milwaukee, Wisconsin:

Posters: "Genetic differentiation in Newfoundland outports," with Ellen Quillen, T Koertvelyessy, C Jenkinson. *Amer. J. Phys. Anthropol.* S40: 168-9.

"Molecular perspectives on the origins of Chibchan speaking populations from the Sierra Nevada de Santa Marta, Colombia," with PE Melton, SS Papiha, I Briceno, J Bernal, R Devor. *Amer. J. Phys. Anthropol.* S40: 151.

"STR variation in four provinces of the Basque country," with K Melvin, AG Apraiz, R Deka. *Amer. J. Phys. Anthropol.* S40: 151.

Human Biology Association Meetings, Milwaukee, Wisconsin, April 6-7

"Evidence for a sex-specific influence of adiponectin on HDL variation: The Kansas Nutrition Project," with MJ Mosher, AG Comuzzie, K Jett, K Melvin, R Rubicz, M Zlojutro *Amer. J. Hum. Biol.* 17 (2): 250-1.

Presentation: "Genetic architecture of a small, isolated Aleut population: Bering Island, Russia," with R Rubicz, G Sun, E Devor, V Spitsyn, R Deka. *Amer. J. Hum. Biol.* 17 (2): 254.

2006

American Association of Physical Anthropologists, March 6-12

Fourth Annual Wiley-Liss Symposium for the AAPA Meetings in Anchorage, Alaska, March 11, 2006, organized with Christine Hanson.

Title: Human Populations of the Circumpolar Regions: Origins, Adaptation and Disease
Papers: "Introduction."

"Origins of Aleut Populations: Molecular Perspectives," with Rohina Rubicz and Mark Zlojutro.

"Relatedness of Eurasian and American Far North Populations with Amerindians According to HLA genes and Linguistics," with Antonio Arnaiz-Villena.

In Symposium: Genetic Perspectives on Human Evolution and Prehistory (organized by Dennis O'Rourke):

Paper: "The Genetic Structure of the Aleuts and Circumpolar Populations and its Implications for the Peopling of North America," with Mark Zlojutro and Rohina Rubicz.

Human Biology Association, 31st Annual Meeting, March 8-9, Anchorage, Alaska

Plenary Session: Human Biology at the Top of the World

Paper: "Reconstruction of the Genetic Structure of Circumpolar Populations: Implications for the Peopling of the Americas."

Poster: "Origins of the Carib Populations of St. Vincent Island, Belize, and Dominica," with Chris Phillips-Krawczak.

Poster: "Using Immunoglobulin Allotypes to Test Hypotheses About the Origin of the Gypsies," with MS Schanfield, RA Lazarin, and Eric Sunderland.

Arctic Anthropology Conference, Eugene, Oregon, October 20:

Paper: "Gene structure of populations of the Aleutian archipelago."

Frontiers in Anthropological Genetics, December 1, colloquium presentation at the University of Kansas: "Origins of Aleuts."

2007

Binational Meeting in Chihuahua, Mexico, for the Development of a Study on Tuberculosis among the Tarahumara of Mexico, February 23rd: "Materiales en la estructura genetica y sus implicaciones para estudio de la tuberculosis."

American Association of Physical Anthropologists, annual meeting, Philadelphia, PA, March 29, paper: "Genetic structure of populations of the Aleutian Islands."

Binational Meeting in Chihuahua, Mexico, for the development of a research program on genetic susceptibility to tuberculosis, August 25, 2007.

Evolutionists Meeting, October 9th: "Peopling of the Americas: Aleutian Perspective."

Invited Plenary Address, November 16th at the Juan Comas International Association meeting in St. Cristobal, Chiapas, Mexico: "Peopling of the Americas: Aleutian Archipelago Perspective."

Four-day Course (November 19th-23rd) on **Anthropological Genetics** at the National University of Mexico (UNAM), sponsored by the Mexican Academy of Sciences.

Invited presentation at the University of Costa Rica, San Jose, April 24th “Peopling of the Americas: Aleutian Island perspective.”

2008

Invited Plenary Address, “Population Structure of Island Populations, Based on Molecular Genetics,” April 2nd in Oxford, England, 50th Anniversary of the founding of the Society for the Study of Human Biology.

Invited presentation, April 11, 2008, in Columbus, Ohio, at the American Association of Physical Anthropology, in a symposium organized by AAAG: Human and Non-human Primate Genetics in the Post-Genomic Era.

Paper: “Population structure measured by molecular genetic markers: Aleutian Archipelago,” with M. Zlojutro.

Poster: Genetic structure of Bering populations using anthropometrics, Justice, A, R. Rubicz, G. Chittoor, and MH Crawford.

Invited presentation on Genetic Structure and Disease at the Population Genetics Symposium at the University of Texas-Pan American, April 24-5, 2008.

Texas Public Health Center—El Paso, Lecture on methodology on Genetic Epidemiology, August 17-18th, 2008.

Invited Plenary Lecture, October 22nd at the Latin American Biological Anthropology Association X Congress in LaPlata, Argentina: “Genomic Asymmetry (mtDNA versus NRY markers) in Populations of the Aleutian Archipelago: The Effects of Russian Political Policy.”

Invited Lecture at the Anthropology Museum, October 24th in Cordoba, Argentina: “Origins of Aleut Populations and the Peopling of the Americas.”

2009

Human Biology Association meetings in Chicago, IL

April 1st: Poster “Genetic Structure of Beringian Populations and Implications for the Peopling of the New World, based on a analysis of autosomal STR data,” R Rubicz, PE Melton, V Spitsyn, G Sun, R Deka, and MH Crawford

American Association of Physical Anthropologists, Chicago, IL

April 4th: Poster, “Geographical distribution of surnames in the Aleutian Archipelago: Evidence from Y-chromosome markers,” O Graf, M Zlojutro, R Rubicz, and MH Crawford

Paper: "Genetic discontinuity in indigenous populations of the Aleutian Archipelago," MH Crawford, R Rubicz, and M Zlojutro

Poster: "Social stratification of height in postfamine Ireland (1860-1910)," R Young, J Relethford, and MH Crawford

Poster: Relationship between body morphology and lipid levels among Mennonites of Henderson, Nebraska, G. Chittoor, A Justice and MH Crawford.

April 2, Plenary Session: "Adventures, misadventures, and ethical issues in field work: What physical anthropologists get themselves into, and what students think about it," Presentation.

Arctic Anthropology Conference, Boulder, Col. November 13th and 14th.

Paper: "Reconstruction of the Settlement of the Aleutian Islands based on Contemporary Populations: Molecular Perspectives."

2010

International Conference on Human Migration, Lawrence, KS, March 1st and 2nd, 2010

Papers: "Evolutionary Consequences of Migration"

"Introduction to Conference on Human Migration."

American Association of Physical Anthropologists, Albuquerque, New Mexico, April 15-17, 2010

Paper: "Genetic Structure of Mennonite General Conference, Halderman and Old Colony populations: Molecular perspectives," MH Crawford, PE Melton, MJ Mosher, R Rubicz and M Zlojutro. Abstract: AJPA S (50): 86.

"Chuvash origins: Evidence from mtDNA markers," Orion Graf, RJ Mitchell, S Wilcox, G Livshits, and MH Crawford. Abstract: AJPA S (50): 114-5.

"Microevolutionary analysis of Y-chromosome variation in five Native American populations from Lower Central America," PE Melton, N Baldi Salas, R Barantes, and MH Crawford. Abstract: AJPA S (50): 168.

"Coalescent modeling of Yakut origins points to a small founding population based on mtDNA variation," M Zlojutro, LA Tarskaia, M Sorensn, JJ Snodgrass, WR Leonard, and MH Crawford. Abstract: AJPA S (50): 251.

Paper: "Are sex-specific effects of dietary phytosterol intake on adiponectin levels an underlying factor explaining variation in TG/HDL ratio associated with APOE polymorphisms: The Kansas Nutrition Study," MJ Mosher, D Demarchi, R Rubicz, M Zlojutro, PE Melton, and MH Crawford. Abstract: AJPA S (50): 173.

“Mestizo identity in the lower Huallaga region of Peruvian Amazonia: Molecular perspectives,” AE Justice, BC Dean, and MH Crawford. Abstract: AJPA S (50): 137-8.

June 1-6, 2010

Short course on Anthropological Genetics, National University, Cordoba, Argentina.

September 27th-28th, 2010

Lecture series: “Identity, Ancestry & Heritage: Multidisciplinary Perspectives,” University of Tennessee-Knoxville.

Two lectures:

“The Genetics of Biological Aging in Mennonite Populations of Kansas”

“Russian Contact & its Sequelae in the Aleutian Archipelago.”

November 2-6, American Society of Human Genetics, Washington D.C.

Poster: “Genotyping SNPs for Native American Y haplogroup assignment,” with AE Justice, NF Baldi, C Phillips-Krawczak, J Gerst, P Williams and MH Crawford

November 28-30, Cold Spring Harbor Symposium, Banbury Center: “DNA, Genetics and the History of Mankind.”

Paper: “Genetic Sequelae of Russian Contact in the Aleutian Islands.”

2011

March 22, Evolutionary Anthropology Max Planck Institute, Leipzig, Germany

Invited Presentation: “Genetic Structure and Origins of the Unagan Populations of the Aleutian Archipelago.”

March 25, GeoGenetics Centre, University of Copenhagen

Invited Presentation: “Molecular Evidence for the Settlement of the Aleutian Islands”

April 15

American Association of Physical Anthropologists meeting, Minneapolis, Minnesota

Paper: “Patterns of gene flow into the indigenous populations of the Aleutian Archipelago.”
Abstract S52 AJPA 115.

Poster: “Paternal genetic history of the Basque population of Spain,” with K. Young, AG Apraiz, G Sun, R Deka. Abstract S52 AJPA 316.

Poster: “The genetic structure of the Kuwaiti population: Mitochondrial DNA markers,” with J Theyab, S Al-Bustan and MH Crawford. Abstract S52 AJPA 293.

Poster: “Y-chromosome variation of a Ch’orti’ Maya population in Eastern Guatemala,” with Anne

Justice and Stephen Johnson. Abstract S52 AJPA 181.

Human Biology Association Luncheon: "Acceptance of the Franz Boas Award," power point presentation.

Invited plenary presentation in a colloquium: Population Genomics, Obesity and Diabetes, in honor of the 100th anniversary of the founding of the National University of Mexico (UNAM). This presentation, "Current Developments in Anthropological Genetics," is sponsored by Instituto Nacional de Medicina Genomica (INMEGEN) of Mexico.

61st American Society Human Genetics, Montreal, Canada, November:

Poster: Population history and paternal gene flow in the Ch'orti' Maya of Eastern Guatemala. A. Justice, SM Johnson, and MH Crawford.

Poster: Rapid DNA extraction from human buccal cells for PCR amplification. J Timbuak, A Justice, MH Crawford and P Williams.

Poster: Development of novel multiplex assay for major Y haplogroup assignment. T Parrish, A eaty, C Krawczak, P Williams and MH Crawford.

2012

American Association of Physical Anthropology, April, 2012, Portland, Oregon

Discussant at a symposium sponsored by AAAG.

Poster: Parrish, J, AE Justice, SM Johnson, KG Beaty, C Phillips-Krawczak, P Williams, and MH Crawford Designing a hierarchical probe assay to identify Native Specific Y-haplogroups in admixed populations.

Poster: Justice, AE and MH Crawford Maternal genetic structure of the Poqomchi Maya of eastern Guatemala.

Mosher, MJ and MH Crawford Relationship of caloric reduction and nutrient density in the Central Kansas Mennonite Diets: 1980-2005

Meeting of the Mexican Tuberculosis group, invited presentation on the "Development of the Chihuahua research program," June 27th, San Antonio, TX

Comparative Ecodynamics in the Aleutian and Kuril Islands: A GHEA synthesis workshop. November 8-10, invited presentation on the environmental factors involved in Aleut migration.

Latin American Biological Anthropology Congress, November 16, San Jose, Costa Rica,

Invited plenary presentation: "Peopling of the Aleutian Islands: Environmental Causes and Genetic Sequelae."

American Society of Human Genetics Annual Meeting, November 7, San Francisco, CA
Poster session: "Population history and Y-chromosome diversity of the Poqomchi' Maya of Eastern Guatemala," SM Johnson, AE Justice and MH Crawford.

Conference on the 30th anniversary of the founding of the Genetics Department at the Texas Biomedical Research Institute, San Antonio, TX, December 7th. Invited plenary presentation on the History of the relationship between the LBA and the Genetics Dept.

2013

Invited lecture by the Undergraduate Student Association, Department of Anthropology, University of Alaska, Anchorage, March 18th, "Origins of Aleut Populations."

Alaska Anthropological Association, Symposium on Maritime Anthropology of the Arctic, March 15, invited presentation on the "Genetic Structure of Island Populations,"

Human Biology Association annual meetings, April 10-13th in Knoxville, Tennessee, Presentation: "The Genetics of LADA."

Invited presentation "Genetic structure of the Aleutian Islands," at the Vavilov Institute, Russian Academy of Sciences, November 19, in memorium to former director Yuri Gregorii Rychkov.

Invited lecture, "Causes and Consequences of Human Migration," September 6, initial presentation at the Migration lecture series at the University of Kansas. Organized two-semester lecture series on Human Migration.

American Society of Human Genetics, Boston, MA, October, 2013

Poster: "Population Structure in Five Mennonite Communities,"

KG Beaty, PE Melton, MJ Mosher and MH Crawford

2014

Lambda Alpha invited lecture at Wichita State University Causes and Consequences of Migration and Settlement of Aleutian Islands, March 1st.

American Association of Physical Anthropology, annual meeting, April 11, Calgary, Alberta, Canada: Paper from the Podium "Genetic Structure of Island Carib populations," with Chris Krawczak, Kristie Beaty and Noel Boaz.

Poster: "Phylogenetic Resolution with mtDNA D-loop vs. HVS 1: Methodological Approaches in Anthropological Genetics Utilizing Four Siberian Populations," S. Johnson, L. Tarskaia Nichols and MH Crawford

Colloquium: Department of Anthropology/Biology, University of Washington-Seattle, June 9th

“Settlement of the Aleutian Islands: Molecular Perspective.”

Colloquium: Department of Anthropology, Western Washington University, Bellingham, Washington, June 6th, “Origins and Population Structure of Aleut populations.”

2015

Symposium in honor of Michael H. Crawford, “Multi-generational Perspectives on Human Biology and Anthropological Genetics,” AAPA-HBA Poster Symposium at the AAPA annual meetings, St. Louis, Mo, March 27, 2015. Organized by WR Leonard and DH O’Rourke.

Lecture by Michael Crawford at the symposium “Field Research 1968-2015.”

Posters:

“Genetic boundaries of the Chibchan speaking populations of Central America based on mitochondrial DNA control region analyses,” NF Baldi, PE Melton, R Barrantes and MH Crawford. Abstract: AJPA S 60, pp. 77.

“Migration and Expansion: Maternal Markers of the Garifuna,” KG Beaty, NF Baldi, EF Herrera Paz, C Phillips-Krawczak and MH Crawford. Abstract: AJPA S60, pp. 81.

“Paternal genetic structure in contemporary Mennonite communities from the American Midwest,” PE Melton, KG Beaty, MJ Mosher and MH Crawford. Abstract: AJPA S60, pp. 224.

AAPA, Session on Anthropological Genetics, March 25th, 2015

“Insights into Native North American Admixture Patterns from Whole Genome Sequencing,” AT Miro Herrans, JA Raff, S Malhi, MH Crawford, MA Hayes, DA Bolnick. Abstract: AJPA S60, pp. 227.

Kansas Medical Education Foundation, Combined Grand Rounds: Lecture “Genetic Epidemiology of Complex Diseases, May 2, 2015 at the Pozez Education Center, Topeka

2016

AAPA, Symposium on Migration: Anthropological Perspective, sponsored by AAPA and AAA, Poster: Causes and Consequences of Human Migration: Anthropological Genetic Perspective, with KG Beaty, L Munoz, Atlanta, Georgia, April 15.

AAPA poster: Serum Leptin, Anthropometric phenotypes and epigenetic programming across 7 Leptin (LEP) core promoter CPG sites in two diverse populations: The western Buryat of Siberia and the Mennonites of Central Kansas, MJ Mosher, PE Melton, P Janssen and MH Crawford

Acceptance speech for the Charles R. Darwin Lifetime Achievement Award, April 16 AJPA:

NIMH Genetics Conference on Anabaptist Collaborative Studies, July 18

“Genetic Structure of Mennonite Populations of Kansas and Nebraska.

Polytechnical University of Mexico, July 13

Lecture: "What Caused Migration into the Aleutian Islands? Molecular Genetic Perspective."

2017

AAPA podium presentation: Genetic Structure of Aleut Populations Based on 750,000 SNPS.

April 20, 2017, New Orleans

2nd International Conference on Human Migration, October 17-21, Mexico City, Chair and Organizer.

Paper: Causes and Evolutionary Consequences of Human Migration: Molecular Perspectives

2018

AAPA poster: Epigenetics and the adaptive link between diet and gene expression: the role of folate and vitamin B12 in diverse populations. HN Nichols, MJ Mosher, DD Shuttleworth, J Davis, MN McManus and MH Crawford, April 13th, Austin, Texas

Human Biology Association Student Discussion Table, Writing and Publishing, April 12th, Austin, Texas