

# CURRICULUM VITAE

## SARA ANN BARTON

### ADDRESS:

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### EDUCATION BACKGROUND:

- 1970 University of Houston, Houston, Texas, B.S., Biology
- 1972 The University of Texas Health Science Center at Houston,  
School of Public Health, M.S.
- 1973 Postgraduate training, Mayo Clinic, Department of Cardiology

### ACADEMIC AND PROFESSIONAL APPOINTMENTS:

- 1994 - Faculty Associate, Human Genetics Center, School of Public Health,  
The University of Texas Health Science Center (UTHSC), Houston, TX
- 1983-94 Research Instructor, Center for Demographic and Population Genetics,  
Graduate School of Biomedical Sciences, UTHSC, Houston, TX
- 1978-83 Research Associate, Center for Demographic and Population Genetics,  
Graduate School of Biomedical Sciences, UTHSC, Houston, TX
- 1972-78 Research Assistant, Center for Demographic and Population Genetics,  
Graduate School of Biomedical Sciences, UTHSC, Houston, TX
- 1971-72 Research Statistical Aide, Texas Cancer Information Service and  
Border Health Survey, School of Public Health, UTHSC, Houston, TX
- 1968-70 Assistant Laboratory Instructor, Biology Department, University of Houston,  
Houston, TX

### PROFESSIONAL ORGANIZATIONS:

- 1972 U.S.-Mexico Border Health Association
- 1971 American Public Health Association
- 1969 Alpha Epsilon Delta, Chapter Historian
- 1969 Beta Beta Beta National Biological Society
- 1968 Alpha Lambda Delta

### HONORS AND AWARDS:

- 1970-71 U.S. Public Health Service Traineeship
- 2007 35 Years of Service, The University of Texas Health Science Center at Houston

### PUBLICATIONS:

#### A. Original Articles in Journals:

1. Barton, S.A., Lenart, V., Palomino, H., Murillo, F., and Schull, W.J. (1976) High altitude, indigenous origin, and continuous cardiac monitoring. *Aviat. Space Environ. Med.* 47:592-596.
2. Makela, M., Weidman, W., Barton, S.A., Rothhammer, F., and Schull, W.J. (1978) The multinational Andean genetic and health program: IV. Altitude and the blood pressure of the Aymara. *J. Chron. Dis.* 31:587-603.
3. Palomino, H., Barton, S.A., Murillo, F., and Schull, W.J. (1978) The Aymara of Western Bolivia: II. Maxillofacial and dental arch variation. *Am. J. Phys. Anthropol.* 49:157-166.

4. Ferrell, R., Bertin, T., Young, R., Barton, S.A., Murillo, F., and Schull, W.J. (1978) The Aymara of Western Bolivia: IV. Gene frequencies for 8 blood groups and 19 serum protein and erythrocyte enzyme systems. *Am. J. Hum. Genet.* 30:539- 549.
5. Murillo, F., Barton, S.A., Palomino, H., Lenart, V., and Schull, W.J. (1980) The Aymara of Western Bolivia: Health and Disease. *Bull. Pan Am. Health Organ.* 14(1):52-64.
6. Murillo, F., Barton, S.A., Palomino, H., Lenart, V., and Schull, W.J. (1980) Los Aimaras del Oeste de Bolivia: Salud y enfermedad. *Bol. Of. Sanit. Panam.* 89(5):415-428.
7. Ferrell, R.E., Bertin, T., Barton, S.A., Rothhammer, F., and Schull, W.J. (1980) The multinational Andean genetic and health program: IX. Gene frequencies and rare variants of 20 serum protein and erythrocyte enzymes in the Aymara. *Am. J. Hum. Genet.* 32:92-102.
8. Mueller, W., Chakraborty, R., Barton, S.A., Rothhammer, F., and Schull, W.J. (1980) Genes and epidemiology in anthropological adaptation studies. Familial correlations in lung function in populations residing at different altitudes in Chile. *Med. Anthropol.* 4(3): 366-384.
9. Clench, J., Barton, S.A., Lenart, V., Murillo, F., and Schull, W.J. (1980) Circadian heart rhythmicity in natives living at high altitude. *Chronobiol.* 7:265-267.
10. Schull, W.J., Goldsmith, R.I., Clench, J., Ferrell, R.E., Barton, S.A., and Rothhammer, F. (1981) 2,3-DPG and night vision. *Aviation, Space and Environ. Med.* 52:41-44.
11. Clench, J., Barton, S.A., Thompson, D., Alexander, F., Laughlin, W., and Schull, W.J. (1981) Circadian heart rate rhythmicity: Comparison between an Eskimo and other population groups. *Chronobiol.* 8:119-122.
12. Chakraborty, R., Clench, J., Ferrell, R.E., Barton, S.A., and Schull, W.J. (1983) Genetic components of variations of red cell glycolytic intermediates at two altitudes among the South American Aymara. *Ann. Hum. Biol.* 10:173-184.
13. Hanis, C.L., Ferrell, R.E., Barton, S.A., Aguilar, L., Garza-Ibarra, A., Tulloch, B.R., Garcia, C.A., and Schull, W.J. (1983) Diabetes among Mexican-Americans in Starr County, Texas. *Am. J. Epidemiol.* 118:659-672.
14. Chakraborty, R., Gershowitz, H., Ferrell, R.E., Barton, S.A. and Schull, W.J. (1985) Immunoglobulin (GM and Km) allotypes in the Aymara of Chile and Bolivia. *Ann. Hum. Biol.* 12:533-544.
15. Barton, S.A., Hanis, C., and Schull, W.J. (1986) Fertility characteristics of Mexican Americans participating in the Starr County, Texas Studies. *Border Health* 2(1):16-26.
16. Chakraborty, R., Ferrell, R.E., Barton, S.A., and Schull, W.J. (1986) Genetic polymorphism and fertility parameters in the Aymara of Chile and Bolivia. *Ann. Hum. Genet.* 50:69-82.
17. Bauer, R.L., Diehl, A.K., Barton, S.A., Brender, J., and Deyo, R.A. (1986) Risk of postmenopausal hip fracture in Mexican American women. *Am. J. Public Health* 76:1020-1024.
18. Reichley, K.B., Mueller, W.H., Hanis, C.L., Joos, S.K., Tulloch, B.R., Barton, S.A., and Schull, W.J. (1987) Centralized obesity and cardiovascular disease risk in Mexican Americans. *Am. J. Epidemiol.* 125:373-386.
19. Mueller, W.H., Wear, M.L., Hanis, C., Barton, S.A., and Schull, W.J. (1987) Body circumferences as alternatives to skinfold measurements of body fat distribution in Mexican-Americans. *Int. J. Obesity* 11:309-318.
20. Bahhage, F.S., Mueller, W.H., Hanis, C.L., Barton, S.A. and Schull, W.J. (1988) Socio-economic status, obesity and non-insulin dependent diabetes in Mexican Americans in Starr County, Texas. *The Ecology of Food and Nutrition* 20:163-170.
21. Weidman, W., Barton, S.A., Lenart, V., and Schull, W.J. (1988) Effect of high altitude on age related changes in the pulmonary vascular bed seen in coastal populations. Commemorative Volume Dr. Carlos Monge Sr. 100<sup>th</sup> Birthday. E. Picon-Reategui (ed.) Lima, Peru. *Archivos de Biología Andina* 13:95-110.
22. Chakraborty, R., Barton, S.A., Ferrell, R.E., and Schull, W.J. (1989) Ethnicity determination by names among the Aymara of Chile and Bolivia. *Hum. Biol.* 61:159-177.

23. Cerda-Flores, R., Kshatriya, G.K., Barton, S.A., Leal-Garza, C., Garza-Chapa, R., Schull, W.J., and Chakraborty, R. (1991) Genetic structure of the populations migrating from San Luis Potosi and Zacatecas to Nuevo León in Mexico. *Hum. Biol.* 63:307-325.
24. Moreno, R.S., Barton, S.A., and Acuña, M. (1991) Supernumerary nipple in Northern Chile. *Arch. Biol. Med. Exp.* 24.
25. Mueller, W.H., Wear, M.L., Hanis, C.L., Emerson, J.B., Barton, S.A., Hewett-Emmett, D., and Schull, W.J. (1991) Which measure of body fat distribution is best for epidemiological research? *Am. J. Epidemiol.* 139:858-869.
26. Moreno, R.S., Aspillaga, E., Barton, S.A., Acuña, M., Llop, E., Harb, Z., Palomino, H., and Rothhammer, F. (1991) Ethnomedical features of the Trapa-Trapa community. *National Chilean Archeological Congress Acts* 12:145-149.
27. Hanis, C.L., Chu, H., Lawson, K., Hewett-Emmett, D., Barton, S.A., Schull, W.J., and Garcia, C.A. (1992) Mortality of Mexican-Americans with non-insulin dependent diabetes mellitus: Retinopathy and other predictors in Starr County, Texas. *Diabetes. Care* 16:82-89.
28. Deka, R., Chakraborty, R., DeCruo, S., Rothhammer, F., Barton, S.A., and Ferrell, R.E. (1992) Characteristics of polymorphism at a VNTR locus 3' to the apolipoprotein B gene in five human populations. *Am. J. Hum. Genet.* 51:1325-1333.
29. Acuña, M., Rothhammer, F., Moreno, R., Barton, S.A., Arribada, A., Apt, W. and Llop, E. (1992) Genetic evidence corroborates Neghme hypothesis concerning the mildness of American tripanosomiasis in Chile. *Rev. Med. Chil.* 120:233-238.
30. Hanis, C.L., Hewett-Emmett, D., Kubrusly, L.F., Maklad, M.N., Douglas, T.C., Mueller, W.H., Barton, S.A., Yoshimaru, H., Kubrusly, D.B., Gonzalez, R., and Schull, W.J. (1993) An ultrasound survey of gallbladder disease among Mexican-Americans in Starr County, Texas: Frequencies and risk factors. *Ethn. Dis.* 3:32-43.
31. Llop, E., Harb, Z., Acuña, M., Moreno, R.S., Barton, S.A., Aspillaga, E., and Rothhammer, F. (1993) Genetic composition of Pehuenche Indians from Trapa-Trapa, Chile. *Rev. Med. Chil.* 121:494-498.
32. Chakraborty, B., Mueller, W.J., Joos, S.K., Hanis, C.L., Barton, S.A., and Schull, W.J. (1993) Obesity and upper body fat distribution in Mexican American children from families with a diabetic proband. *Am. J. Hum. Biol.* 5:575-585.
33. Cerda-Flores, R.M., Barton, S.A., Hanis, C.L., and Chakraborty, R. (1994) Genetic variation by birth cohorts in Mexican Americans of Starr County, Texas. *Am. J. Hum. Biol.* 6:669-674.
34. Junco-Munoz, P., Ottman, R., Lee, J.H., Barton, S.A., Rivas, F., and Cerda-Flores, R.M. (1996) Blood lead levels: Association factors in residents of Monterrey, Mexico. *Arch. Med. Res.* 27:547-551.
35. Barr, R.D., Barton, S.A., and Schull, W.J. (1996) Boron levels in man: Preliminary evidence of genetic regulation, some implications for human biology. *Med. Hypotheses* 46:286-289.
36. Palomino, H.M., Palomino, H., Cauvi, D., Barton, S.A., and Chakraborty, R. (1997) Facial clefting and Amerindian admixture in populations of Santiago, Chile. *Am. J. Hum. Biol.* 9:225-232.
37. Palomino, H., Cerda-Flores, R.M., Blanco, R., Palomino, H.M., Barton, S.A., de Andrade, M., and Chakraborty, R. (1997) Complex segregation analysis of facial clefting in Chile. *J. Craniofac. Genet. Dev. Biol.* 17:57-64.
38. Brown, S.A., Upchurch, S.L., Garcia, A.A., Barton, S.A., and Hanis, C.L. (1998) Symptom-related self-care of Mexican Americans with Type 2 diabetes: Starr County Diabetes Education Study. *Diabetes Educ.* 24(3):331-339.
39. Cerda-Flores, R.M., Barton, S.A., Marty-Gonzalez, L.F., Rivas, F., and Chakraborty, R. (1999) Estimation of nonpaternity in the Mexican population of Nuevo León: A validation study with blood group markers. *Am. J. Phys. Anthropol.* 109:281-293.

40. Brown, S.A., Harrist, R.B., Villagomez, E.T., Segura, M., Barton, S.A., and Hanis, C.L. (2000) Gender and treatment differences in knowledge, health beliefs, and metabolic control in Mexican Americans with Type 2 Diabetes: Baseline findings of the Starr County Diabetes Education Study. *Diabetes Educ.* 26:425-438.
41. Wu, H., Wang, H., Li, H., Oshuaakey, J., Xiao, R., Ke, Y., Xu, H., Xiao, J., Lu, D., Parra, E., Shriver, M., Xiong, M., Barton, S.A., Hewett-Emmett, D., Liu, W., and Jin, L. (2001) Skin reflectance in the Han Chinese and Tibetan populations. *Hum. Biol.* 73:461-466.
42. Blanco, R., Carreno, H., Paredes, M., Jara, L., Palomino, H., Chakraborty, R., Barton, S.A., and Schull, W.J. (2001) Evidence of a sex dependent association between the MSX1 locus and nonsyndromic cleft lip with or without cleft palate in a Chilean population. *Hum. Biol.* 73:81-89.
43. Cerda-Flores, R.M., Villalobos-Torres, M.C., Barrera-Saldaña, H.A., Cortés-Prieto, L.M., Barajas, L.O., Rivas, R., Carracedo, A., Zhong, Y., Barton, S.A., and Chakraborty, R. (2002) Genetic admixture in three Mexican Mestizo populations based on D1S80 and HLA-DQA1 loci. *Am. J. Hum. Biol.* 14:257-263.
44. Brown, S.A., Becker, H.A., Garcia, A.A., Barton, S.A., and Hanis, C.L. (2002) Measuring health beliefs in Spanish-Speaking Mexican Americans with Type 2 diabetes: Adapting an existing instrument. *Res. Nurs. Health* 25:145-158.
45. Cerda-Flores, R.M., Budowle, B., Jin, L., Barton, S.A., Deka, R., and Chakraborty, R. (2002) Maximum likelihood estimates of admixture in Northeastern Mexico using 13 short tandem repeat loci. *Am. J. Hum. Biol.* 14:429-439.
46. Bertoni, B., Budowle, B., Sans, M., Barton, S.A., and Chakraborty, R. (2003) Admixture in Hispanics: Distribution of ancestral population contributions in the continental United States. *Hum. Biol.* 75(1):1-11.
47. Ojeda, J.M., Ampuero, S., Rojas, P., Prado, R., Allende, J.E., Barton, S.A., Chakraborty, R., and Rothhammer R. (2003) P53 codon 72 polymorphism and risk of cervical cancer. *Biol. Res.* 26(3):279-283.
48. Cortes-Prieto, L.M., Baltazar, L.M., Perea, F.J., Gallegos-Arreola, M.P., Flores, S.E., Sandoval, L., Olivares, N., Xu, H., Barton, S.A., Chakraborty, R., and Rivas, F. (2004) HLA-DQB1, -DQA1, -DRB1 linkage disequilibrium and haplotype diversity in a Mestizo population from Guadalajara, Mexico. *Tissue Antigens* 63:1-8.
49. Cerda-Flores, R.M., Torres Salazar, A., Silva-Martínez, L.E., Rodríguez-Vela, H, Marty-Gonzalez, L.F., Jin, L., Barton, S.A., Chakraborty, R. (2010) mtDNA haplotypes in Mexican mestizos whose grandmothers were born in Cuatrociénegas, Coahuila during the cohort 1882-1919. IN: Jimenez Lopez, J.C., Serrano Sanchez, C., Gonzalez Gonzalez, A., and Agilar Arellano, F.J. (eds) Simposio Internacional El hombre temprano en América. III Simposio Internacional El Hombre Temprano en América. México: UNAM. Instituto Nacional de Antropologías e Historia, pp. 45-51.
50. Gao, J.J., Pan, X.R., Hu, J., Ma, L., Wu, J.M., Shao, Y.L., Barton, S.A., Woodruff, C., Zhang, Y.P., and Fu, Y.X. (2011) Highly variable recessive lethal or nearly lethal mutation rates during germline development of male *Drosophila melanogaster*. *Proc Natl Acad Sci USA* 108(38):15914-15919. PMID: PMC 3179084
51. Figueroa, L., Barton S., Schull, W., Bazmilic, B., Zumaeta, O., Young, A., Kamiya, Y., Hoskins, J., and Ilgren E. (2012) Environmental lithium exposure in the North of Chile – I. Natural water sources. *Biol. Trace Elem. Res.* 149(2): 280-290.
52. Figueroa, L.T., Razmilic, B., Zumeata, O, Aranda, G.N., Barton, S.A., Schull, W.J., Young, A.H., Kamiya, Y.M., Hoskins, J.A., and Ilgren, E.B. (2013) Environmental lithium exposure in the North of Chile – II. Natural Food Sources. *Biol. Trace Elem. Res.* 151(1):122-131.
53. Gao, J-J., Pan, X-R., Hu, J., Ma, L., Wu, J-M., Shao, Y-L., Ai, S-M., Liu, S-Q., Barton, S.A., Woodruff, R.C., Zhang, Y-P., Fu, YX. (2014) Pattern of mutation rates in the germline of *Drosophila melanogaster* males from a large-scale mutation screening experiment. **G3 • Genes | Genomes | Genetics** 4(8):1503-1514. PMID: PMC4132180

54. Rothhammer, F., Fuentes, M., Patel, P., Barton, S.A., and Chakraborty R. 2015 Neonatal variables of Chilean Aymará newborns suggest adaptation to hypoxia through negative selection. *PloS One* (submitted) .

#### B. Chapters in Books and Symposium Volumes:

1. Clench, J., Ferrell, R.E., Schull, W.J., and Barton, S.A. (1981) Hematocrit and hemoglobin ATP and DPG concentrations in Andean man: The interaction of altitude and trace metals with glycolytic and hematologic parameters in man. IN: Proceedings of the 5<sup>th</sup> International Conference on Red Cell Metabolism and Function. Brewer, G.J. (Ed.). NY: A.R. Liss, pp. 747-766.
2. Ferrell, R.E., Schull, W.J., and Barton, S.A. (1985) Adenosine triphosphate, diphosphoglyceric acid and their relationship to reproductivity at altitude. IN: Human Adaptation to Environment. Basu, A. and Mukhopadhyay, B. (Eds.). Calcutta: Indian Anthropological Society, pp. 43-54.
3. Barton, S.A. Castro, N., and Barja, I. (1990) Nutritional characteristics of the Aymará of Northern Chile. IN: The Aymará: Strategies in Human Adaptation to a Rigorous Environment. Schull, W.J., and Rothhammer, F. (Eds.). Dordrecht, The Netherlands: Kluwer Academic Publ., pp. 63-74.
4. Schull, W.J., Ferrell, R.E., and Barton, S.A. (1990) The Chilean Aymará and their reproductive patterns. IN: The Aymará: Strategies in Human Adaptation to a Rigorous Environment. Schull, W.J., and Rothhammer, F. (Eds.). Dordrecht, The Netherlands: Kluwer Academic Publ., pp. 75-86.
5. Weidman, W.H., Barton, S.A., and Lenart, V. (1990) Altitude and cardiopulmonary relationships. IN: The Aymará: Strategies in Human Adaptation to a Rigorous Environment. Schull, W.J., and Rothhammer, F. (Eds.). Dordrecht, The Netherlands: Kluwer Academic Publ., pp. 167-182.
6. Barton, S.A., Moreno, R., and Chakraborty, R. 1997. Genetic and epidemiological aspects of gallbladder disease. IN: Patterns of Morbidity in Andean Aboriginal Populations: 8000 Years of Evolution. Barton, S.A., Rothhammer, F., and Schull, W.J. (Eds.). Santiago, Chile: AmpHora Editores, pp. 148-172.
7. Chakraborty, R., Jin, L., and Barton, S.A. 1997. South American populations: Unique opportunities for genetic and epidemiological research. IN: Patterns of Morbidity in Andean Aboriginal Populations: 8000 Years of Evolution. Barton, S.A., Rothhammer, F., and Schull, W.J. (Eds.). Santiago, Chile: AmpHora Editores, pp. 226-253.

#### C. Books:

1. Schull, W.J., Rothhammer, F., (Eds.) and Barton, S.A. (Collaborating Ed.) (1990) The Aymará: Strategies in Human Adaptation to a Rigorous Environment. Dordrecht, The Netherlands: Kluwer Academic Publ.
2. Barton, S.A., Rothhammer, F., and Schull, W.J (Eds.). (1997) Patterns of Morbidity in Andean Aboriginal Populations: 8000 Years of Evolution. Santiago, Chile: AmpHora Ed.

#### D. Abstracts:

1. Barton, S.A., Seybold, S.V., and Schull, W.J. (1974) Eight County Hospital Admissions Study: Man's burden of inherited disease and disability. 32<sup>nd</sup> Annual U.S.-Mexico Border Health Association Meeting, Monterrey, Mexico, June 17-20, 1974.
2. Alexander, F. and Barton, S.A. (1980) Observations on the cardiovascular status of the St. Lawrence Island Eskimo. *Am. J. Phys. Anthropol.* 52:199-200.
3. Marcks, S.W., Barton, S.A., Ferrell, R.E., and Howell, R.R. (1980) Effects of nontherapeutic environmental exposure to lithium. *Am. J. Hum. Genet.* 32:147A.
4. Barton, S.A., Weiss, K.M., and Schull, W.J. (1980) Genetic epidemiology of cancer in a Mexican-American community. 38<sup>th</sup> Annual U.S.-Mexico Border Health Association Meeting, Saltillo, Mexico, Apr. 20-23, 1980, p. 2.

5. Mueller, W.H., Ferrell, R.E., Bertin, T., Barton, S.A., Rothhammer, F., and Schull, W.J. (1981) Genetic flexibility and morphological variation in populations residing at different altitudes in Chile. *Am. J. Phys. Anthropol.* 54:257.
6. Chakraborty, R., Barton, S.A., Schull, W.J., Hanis, C.L., and Weidman, W.E. (1982) Familial component of blood pressure variations in an hypoxic environment. *Am. J. Phys. Anthropol.* 57:175.
7. Bauer, R.L., Diehl, A.K., Deyo, R.A., and Barton, S.A. (1984) Risk of postmenopausal hip fracture in Mexican-Americans. *Clin. Res.* 32:834A.
8. Barton, S.A. (1985) Fertility characteristics of Mexican-Americans participating in the Starr County, Texas studies. 38<sup>th</sup> Annual U.S.-Mexico Border Health Association Meeting, San Antonio, TX, June 26-29, 1985.
9. Chakraborty, R., Ferrell, R.E., Barton, S.A., and Schull, W.J. (1985) Ethnicity determinations by names: A case study of validity and reliability in admixed groups in Chile and Bolivia. *Am. J. Phys. Anthropol.* 66:154.
10. Ferrell, R.E., Chakraborty, R., Barton, S.A., and Schull, W.J. (1985) Genetic polymorphisms and fertility parameters in the Aymara of Chile and Bolivia. *Am. J. Phys. Anthropol.* 66:167.
11. Bauer, R.L., Diehl, A.K., Deyo, R.A., and Barton, S.A. (1985) Reduced risk of hip fracture in Mexican-American women. *Clin. Res.* 33:242A.
12. Barton, S.A. (1986) Gallbladder disease among Starr County health study participants. 44<sup>th</sup> Annual U.S.-Mexico Border Health Association Meeting, Monterrey, Mexico, Apr. 27-30, 1986, p. 19-20.
13. Barton, S.A., Hanis, C.L., Kubrusly, L., and Schull, W.J. (1987) Electrocardiographic findings on Mexican-Americans participating in the Starr County, Texas Health Studies. 45<sup>th</sup> Annual U.S.-Mexico Border Health Association Meeting, San Diego, CA, June 7-10, 1987, p. 11-12.
14. Palomino, H., Li-S, C., Palomino, H.M., Barton, S.A., and Chakraborty, R. (1991) Complex segregation analysis of facial clefting in Chile. *Am. J. Hum. Genet.* 49(Suppl. 4):154.
15. Cerda-Flores, R.M., Barton, S.A., Garza-Chapa, R., Li, S-C., Hanis, C.L., and Chakraborty, R. (1991) Genetic frequency variation in three generations of the Mexican-American population of the State of Texas. 6<sup>th</sup> Juan Comas Physical Anthropology Colloquium, Mexico City, DF, May 20-24, 1991, p. 26.
16. Chakraborty, R., Barton, S.A., and Cerda-Flores, R.M. (1991) Population genetics of the Mestizo Mexican of South Texas and Northeast Mexico. 6<sup>th</sup> Juan Comas Physical Anthropology Colloquium, Mexico City, DF, May 20-24, 1991.
17. Dunn, K., Bertin, T., Barton, S.A., Deaver, J., Loe, H., Heitman, E., Watsky, A., and Schull, W.J. (1993) Vulnerable and indigent population (VIP) mentoring program of the Victoria and William J. Schull Foundation. 4<sup>th</sup> Biannual Symposium on Minorities, the Medically Underserved and Cancer: Cultural Diversity, Poverty, and Health Care Reform, Houston, TX., Apr. 21-24, 1993.
18. Barton, S.A., Garcia, C.A., Hanis, C.L., and Schull, W.J. (1993) Twelve years of health and disease experience among Mexican-Americans in Starr County, Texas: Epidemiology of NIDDM, diabetic retinopathy, obesity, gallbladder and cardiovascular disease. 51<sup>st</sup> Annual U.S.-Mexico Border Health Association Meeting, Albuquerque, NM, June 6-9, 1993, p. 12.
19. Cerda-Flores, R.M., Ottman, R., Lee, J.H., Barton, S.A., Rivas, F., and Junco, P. (1997) Factors associated with blood lead concentrations in residents of Monterrey, Mexico. I. Reunión Regional de Investigación Médica, IMSS. Hospital Regional de Especialidades #25, Monterrey, Nuevo León, Mexico, Feb. 3, 1997.
20. Cerda-Flores, R.M., Barton, S.A., Leal-Garza, C.H., Marty-González, L.F., and Chakraborty, R. (1997) Relationship between the prevalence of diabetes mellitus and percentage of Amerindian genetic admixture in Mexican populations. 9<sup>th</sup> Juan Comas International Physical Anthropology Colloquium, Querétaro, Mexico, Nov. 2-6, 1997, pp. 30-31.

21. Marty-González, L.F., Cerda-Flores, R.M., Barton, S.A., and Chakraborty, R. (1997) Determination of the frequency of nonpaternity in newborns with four grand- parents born in the State of Nuevo León. 9<sup>th</sup> Juan Comas International Physical Anthropology Colloquium, Querétaro, Mexico, Nov. 2-6, 1997, pp. 51-52.
22. Cerda-Flores, R.M., Li, J., Barton, S.A., and Chakraborty, R. (2003) Characterization of mtDNA haplotypes in Northeastern Mexico. HUGO Human Genome Meeting, Cancun, Mexico, Apr. 27-30, 2003.
23. Cerda-Flores, R.M., Li, J., Barton, S.A., Chakraborty, R. (2003) Distribution of Y chromosome markers in Northern Mexico. XXVIII National Human Genetics Congress. Morelia, Michoacan, Mexico. Nov. 19-22, 2003.
24. Cerda-Flores, R.M., Torres Salazar, A., Silva-Martínez, L.E., Rodríguez-Vela, H., Jin, L., Barton, S.A., Chakraborty, R. (2006) mtDNA haplotypes in Mexican Mestizos whose grandmothers were born in Cuatrociénegas, Coahuila during the cohort 1882-1919. III Simposio Internacional El Hombre Temprano en América, Saltillo, Coahuila, Mexico, Oct. 23-28, 2006
25. Cerda-Flores, R.M., Torres Salazar, A., Barton, S.A., Chakraborty, R. (2008) Short tandem repeat loci in Mexican Mestizos whose four grandparents were born in Cuatrociénegas, Coahuila during the Cohort 1882-1919. IV. Siimposio Internacional El Hombre Temprano en América, Mexico City, Mexico, August 18-22, 2008.
26. Cerda-Flores, R.M., Torres Salazar, A., Silva-Martínez, L.E., Rodríguez-Vela, H, Marty-Gonzalez, L.F., Jin, L, Barton, S.A., Chakraborty, R. (2008) mtDNA haplotypes in Mexican mestizos whose grandmothers were born in Cuatrociénegas, Coahuila during the cohort 1882-1919. Instituto Nacional de Antropología e Historia (INAH). III Simposio El Hombre Temprano en America. July, 2008.

#### **OTHER PROFESSIONAL ACTIVITIES:**

1. Participation in Brownsville, Texas-Matamoros, Mexico Border Health Survey, Summer, 1971.
2. Presentation: Results of Brownsville-Matamoros Border Health Survey, 30<sup>th</sup> Annual Meeting US-Mexico Border Health Association, Chihuahua, Mexico, April 17-21, 1972.
3. Field Studies Director and Data Coordinator, Multinational Andean Genetic and Health Survey, Field Project Director, Chile, Oct.- Nov., 1973,1974; Bolivia, April-May, 1975.
4. Participation in Eight County Hospital Admissions Study and survey, 8 Counties in Texas, 1972-74.
5. Presentation: Eight county hospital admissions study: Man's burden of inherited disease and disability, 32<sup>nd</sup> Annual Meeting U.S.-Mexico Border Health Association, Monterrey, Mexico, June 17-20, 1974.
6. Participation in Panama Hypertension Field Study, Summer, 1975.
7. Participation in St. Lawrence Island, Alaska Eskimo Health Study, March-April, 1979.
8. Field Project Director in Northern Chile Trace Metal Levels and Disease Effects Study, Sept.-Oct., 1979.
9. Participation in Laredo, Texas Cancer Study, 1977-1979.
10. Presentation: Genetic epidemiology of cancer in a Mexican-American community, 38<sup>th</sup> Annual Meeting US-Mexico Border Health Association, Saltillo, Mexico, April 20-23,1980.
11. Coordinator, Starr County, Texas Health Studies of Non-insulin Dependent Diabetes Mellitus (NIDDM), Diabetic Retinopathy and Gallbladder Projects, 1981-1994.
12. Presentation: Fertility characteristics of Mexican-Americans participating in the Starr County, Texas, Health Studies, 43<sup>rd</sup> Annual Meeting US-Mexico Border Health Association, San Antonio, TX, June 16-19, 1985.
13. Member, South-North Center for Health Studies, School of Public Health, University of Texas, 1985-1989.

14. Presentation: Gallbladder disease among Starr County health study participants, 44<sup>th</sup> Annual Meeting US-Mexico Border Health Association, Monterrey, Mexico, April 27-30, 1986.
15. Presentation: Electrocardiographic findings on Mexican-Americans participating in the Starr County, Texas Health Studies. 45<sup>th</sup> Annual Meeting US-Mexico Border Health Association, San Diego, CA, June 7-10, 1987.
16. Field work: Universidad de Chile, Human Genetics Program, in the study of the biological homogeneity of Amerindian communities with different degrees of lifestyles, isolation transculturation and disease patterns in Northern and South Central rural Chilean communities, January, 1988, 1989, and 1991.
17. Member, Pan American Health Association, Primary Health Care Review Workshop, July 20, 1989.
18. Member, Editorial Board, *Antropología Biológica Revista Internacional de Biología de Poblaciones*, 1991- .
19. Presentation: Population genetics and diseases of the Mexican and Mexican American populations of South Texas and Northeast Mexico. 6<sup>th</sup> Juan Comas Physical Anthropology Colloquium, Mexico City, DF, May 21, 1991.
20. Member, University of Texas - Houston Health Science Center, Educational Committee for Infectious Diseases, 1992-1995.
21. Consultant, Multi-Center Study to Assess the Risk and Consequence of Hepatitis C Virus (HCV) Transmission from Mother to Infant, Dr. Lu-Yu Hwang, Project PI, The University of Texas, School of Public Health, 1993-2002.
22. Presentation: Twelve years of health and disease experience among Mexican Americans in Starr County, Texas: Epidemiology of NIDDM, diabetic retinopathy, obesity, gallbladder and cardiovascular disease. 51<sup>st</sup> Annual Meeting US-Mexico Border Health Association, Albuquerque, NM, June 6-9, 1993.
23. Project Field Director, Diabetes Patient Education in a Rural Hispanic Community (Starr County, Texas) Project, Dr. Sharon Brown, Project PI, The University of Texas, School of Nursing, 1994-1998.
24. Research Consultant, Genetic Etiology of Nonsyndromic Cleft Lip and Palate Study, Universidad de Chile, Human Genetics Program, Santiago, Chile, 1998- .
25. Research Consultant, Biological Study of Easter Island Population, Universidad de Valparaiso, Biological Sciences and Chemistry Institute, Valparaiso, Chile, 1998-
26. Poster: Molecular Epidemiology in Latin America Surveys of Human Genetic Diversity. Knowing the Human Genome. 29<sup>th</sup> Human Genetics National Congress. San Luis Potosí, Nov. 15-17, 2004.