

March 9, 2012

CURRICULUM VITAE

Sun-Wei Guo, Ph.D.

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Shanghai Obstetrics and Gynecology Hospital
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Place of Birth: Shanghai, China

Citizenship: USA (Naturalized in 1999)

Education:

2000 – 2001 Faculty Leadership Development Program, organized jointly by
The Medical College of Wisconsin and the University of Wisconsin Milwaukee
Business School

1988 - 1991 Ph.D. Department of Biostatistics, School of Public Health and
Community Medicine, University of Washington.
Dissertation topic: *Monte Carlo methods in quantitative genetics.*

1986 - 1988 M.Sc., Department of Biostatistics, School of Public Health and Community
Medicine, University of Washington.

1982 - 1985 M. Med., School of Public Health,
Shanghai Medical University (now School of Public Health, Fudan University)

1978 - 1982 B.S., Mathematics. East China Normal University,
Shanghai, China.

Military Service: None

Faculty Appointments:

6/10—Present Professor, Shanghai Obstetrics and Gynecology Hospital,
Fudan University Shanghai College of Medicine, Shanghai, China

6/07 – 5/10 Professor and Director, Institute of Obstetric and Gynecologic Research,

Shanghai Jiao Tong University School of Medicine, Shanghai, China

- 12/99 – 6/07 Professor of Biostatistics (secondary appointment), Division of Biostatistics, Health Policy Institute, Medical College of Wisconsin, Milwaukee, Wisconsin
- 9/99 – 6/07 Professor of Pediatrics (tenured), Max McGee Research Center for Diabetes, the Dept. of Pediatrics, Medical College of Wisconsin, Milwaukee, Wisconsin
- 6/97 – 9/99 Full Member, University of Minnesota Cancer Center.
- 12/96 – 9/99 Associate Professor, Institute of Human Genetics, and the Division of Epidemiology, School of Public Health, University of Minnesota, Minneapolis, Minnesota
- 9/96 – 11/96 Associate Research Scientist, Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, Michigan.
- 11/91 – 8/96 Assistant Research Scientist, Department of Biostatistics, School of Public Health, University of Michigan, Ann Arbor, Michigan

Visiting Professorship:

- 08/00 – 12/02 Visiting International Scientist, Diabetes & Genetic Epidemiology Unit, Department of Epidemiology & Health Promotion, National Institute of Public Health, Helsinki, Finland. Sponsored by the Sigrid Juselius Foundation
- 9/97 – 12/99 Visiting Professor, Shanghai Medical University, Shanghai, China

Teaching Experience:

- 2/83-2/84 Teaching Assistant, Department of Health Statistics and Community Medicine, Shanghai Medical University, China.
- 9/85-7/86 Department of Health Statistics and Community Medicine, Shanghai Medical University, China.
Sole instructor for Elementary Medical Statistics.
- 9/94-12/94 Department of Biostatistics, University of Michigan.
Sole instructor for BIOSTAT 830: Advanced Topics in Statistical Human Genetics
- 1/96-5/96 Department of Biostatistics, University of Michigan.
Sole instructor for BIOSTAT 666: Statistical Models and Methods in Human Genetics
- 5/97 Division of Epidemiology, University of Minnesota.

Guest lecture for PubH 5381: Genetic Epidemiology

9/97-12/97

Division of Epidemiology, University of Minnesota
Sole instructor for PubH 5399 II: Advanced Genetic Epidemiology

9/98-12/98

Division of Epidemiology, University of Minnesota
Course Director for PubH 5399 III: Human Genetics, Public Health, and Society

1/00-4/00

Division of Biostatistics, Health Policy Institute, Medical College of Wisconsin. Statistical Genetics. Guest lecturer.

Professional Service

1992-present

Referee for Science, Journal of the American Statistical Society, Biometrics, American Journal of Human Genetics, Genomics, American Journal of Medical Genetics, American Journal of Pathology, Genetic Epidemiology, Genetics, Human Heredity, Genetics in Medicine, European Journal of Human Genetics, Nature Genetics, International Journal of Cancer, Theoretical Biology and Medical Modeling, American Journal of Epidemiology, Fertility and Sterility, Gynecologic and Obstetric Investigation, Human Reproduction, Molecular Human Reproduction, Human Reproduction Update, Reproductive Sciences, Journal of Pathology, Journal of Obstetric and Gynaecological Research.

1993-1996

Organization of Department Brown-bag seminar, University of Michigan.

1997

Organizer of the Genetic Epidemiology Interest Group, University of Minnesota.

5/1997

Ad hoc grant reviewer, Oral Biology and Medicine Study Section, NIH.

6/1997

Ad hoc grant reviewer, National Institute on Deafness and Other Communication Disorders, NIH.

11/1997

Grant reviewer for the Wellcome Trust of United Kingdom.

1997

Student Research and Award Committee, Division of Epidemiology, University of Minnesota.

1997

Ph.D. Students Admission Committee, Division of Epidemiology, University of Minnesota.

2002 Reviewer of a book proposal for Wiley

- 2002 Reviewer, Special Emphasis Panel, ZDK1GRB-8 O2, National Institute of Diabetes and Digestive and Kidney Disease, NIH.
- 2006 Reviewer, The Agency for Science, Technology and Research's (A*STAR) Biomedical Research Council (BMRC) in Singapore.
- 12/2006 Reviewer, NIH/NICHD, Specialized Cooperative Centers Program in reproduction and infertility research.
- 03/2007 Reviewer, NIH/NIEHS, Outstanding new environmental scientist award (ONES) (R01).
- 04/2007 Reviewer, NIH/NICHD, Cooperative reproductive science research centers at minority institutions (U54).
- 2007- Full member, Faculty 1000 Medicine (Endometriosis)
- 03/2008 Consultant, Bayer-Schering Pharma AG
- 2010- Associate Editor, *Human Reproduction*
- 2010- Chair, The 375th Xiang Shan Scientific Conference, Cutting-edge research and future directions of endometriosis research and clinical impact
- 2010- Chair, The Asian Conference on Endometriosis (ACE I) Organization, The First Asian Conference on Endometriosis (ACE I)
- 10/2010 Consultant, Merck Pharmaceutical Company
- 5/2011 Reviewer, Austrian Science Fund (FWF).
- 2011- Member of the Editorial Advisory Board, *Recent Patents on Biomarkers*
- 6/2011 Reviewer for the program committee, The 11th World Congress on Endometriosis
- 2/2012 Reviewer for the program committee, The 2012 Annual meeting of European Society of Human Reproduction and Embryology
- 2/2012 WHO Expert Working Groups (EWG3A) on Female: Infertility work-up and general management, Reproductive Health and Research.
- 2/2012 Reviewer for the program committee, The 2012 ESHRE Annual Meeting.

Awards and Honors:

- 2001 The paper by Guo SW and Thompson ET (1992, Biometrics) was ranked by the ISI Science Watch (May/June 2002, Vol 13(3)) as “the most cited mathematics paper” of the decade 1991 – 2002 in the world, with more than 650 citations (3,350 citations as of January 19, 2012, according to Google Scholar, searched under “Sun-Wei Guo”). Sun-Wei Guo also was ranked as the world's 11th highly cited author in mathematics, 2nd in the biostatistics category, in the decade of

1991 – 2001, with 737 citations of his 6 papers
http://archive.sciencewatch.com/may-june2002/sw_may-june2002_page2.htm,
 accessed on August 12, 2010).

2000 Visiting Professorship from the Sigrid Juselius Foundation of Finland
 1997 Bush Foundation Excellence and Diversity in Teaching, University of Minnesota
 1997 Travel award from the China Center, University of Minnesota
 1992 Travel award from the National Science Foundation
 1990 Travel award from the Biometrics Society
 1990 Outstanding Student Award, School of Public Health and Community Medicine,
 University of Washington
 1986 Outstanding Student Scholarship, Department of Biostatistics, University of
 Washington
 1980, 1981 Departmental Citation for Outstanding Undergraduate Work, Department of
 Mathematics, East China Normal University

Research Grants, Contracts Awards, Projects:

Title: A molecular genetic study of prostate cancer.
 Source: MCW Cancer Center and the Breast Cancer Showhouse, Inc
 Role: PI
 Dates: 01/01/02 – 06/30/04
 Total Funds: \$50,000

Title: A molecular genetic study of endometriosis
 Source: Endometriosis Association
 Role: PI
 Dates: 08/01/01 to 08/31/02
 Total Funds: \$45,000

Title: Large-scale expression profiling of endometriosis
 Source: MCW Pilot Grant
 Role: PI
 Dates: 06/01/01 – 05/24/03
 Direct Funds: \$12,500

Title: Statistical Models in Population and Quantitative Genetics.
 Source: NIH R01 GM56515.
 Role: PI
 Dates: 1/1/97 – 12/31/00
 Direct Funds: \$743,869.

Title: Statistical Methods of Genetic Analysis of NIDDM.
 Source: University of Michigan Diabetes Training and Research Center
 Role: PI
 Dates: 12/01/93 – 11/30/94
 Direct Funds: \$20,000

Title: Statistical Methods for Mapping Complex Genetic Traits.
 Source: NIH R29 GM52205.
 Role: PI
 Dates: 1/1/95 – 12/31/99

Direct Funds \$349,201. Completed
 Title: Linkage Analysis of Familial Psoriasis.
 Source: NIH
 Role: Co-Investigator
 Dates: 4/1/94 – 3/31/99
 Direct Funds: \$990,870. Completed

Title: Genetic Analysis of Bitterness-Tasting Ability in Humans
 Source: University of Minnesota Graduate School.
 Role: PI
 Dates: 7/1/97 – 12/15/98
 Direct Funds: \$19,460. Completed

Title: GCRC supplement: Bioinformatics core
 Source: NIH
 Role: Co-Investigator
 Dates: 02/01/00 – 11/30/05
 Direct Funds: \$1,978,662

Title: Genetics of inhibitor formation in hemophilia.
 Source: NIH R01-HL61933
 Role: Co-Investigator
 Dates: 08/01/98 – 08/31/02
 Direct Funds: \$197,363

Title: Genetics of non-HLA in post-adolescent onset Type 1 diabetes mellitus
 Source: Juvenile Diabetes Research Foundation
 Role: Co-PI
 Dates: 10/01/02 – 9/30/07
 Direct Funds: \$6,250,000

Title: A case-control study of endometriosis
 Source: MCW Research Affairs Committee
 Role: PI
 Dates: 11/01/02 – 10/32/03
 Direct Funds: \$12,500

Title: A molecular genetic study of inhibitor formation in hemophilia A patients
 Source: Children's Hospital Foundation
 Role: Co-Investigator
 Dates: 01/01/03 – 12/31/03
 Direct Funds: \$40,000

Title: Aberrant methylation and endometrial cancer: Identification and their use as clinical biomarkers
 Source: MCW Cancer Center
 Role: PI
 Dates: 07/01/04 – 06/30/06
 Direct Funds: \$25,000

Title: Identification of diagnostic biomarkers for endometriosis
 Source: Shanghai Science and Technology Commission
 Role: PI
 Dates: 01/2008 – 12/2010
 Status: Completed.

Title: Molecular genetic inference of the natural history and recurrence of endometriosis
 Source: National Science Foundation of China
 Role: PI
 Dates: 01/2009 – 12/2011
 Status: On-going.

Title: Epigenetics of endometriosis
 Source: Shanghai Science and Technology Commission, China
 Role: PI
 Dates: 10/2009 – 12/2011
 Status: On-going

Title: Mechanisms of endometriosis-related pains
 Source: State Key Laboratory of Neurobiology, Shanghai Medical College, Fudan University, China
 Role: PI
 Dates: 07/2009 – 07/2011
 Status: Completed.

Patents

Diagnosis and Treatment of Endometriosis: U.S. Patent Application No: 11/803,993 (pending)
Inventors: S.W. Guo/Y. Wu

Biomarkers for recurrence of endometriosis. China Patent Administration (Pending)
 Inventors: S.W. Guo, Xishi Liu, Fanghua Shen, Lei Yuan.

Invited presentations

1. Mapping complex genetic traits: Problems and Solutions. Presented at the National Center for Human Genome Research, Bethesda, MD. June 29, 1994.
2. Mapping complex genetic traits: Problems and solutions. Presented at the IMA Workshop on Molecular Biology. University of Minnesota. July 10, 1994.
3. The population dynamics of simple sequence repeats. Presented at the Sergievsky Center, Columbia University, October 10, 1995.
4. The population dynamics of simple sequence repeats. Presented at the Glaxo-Wellcome Inc., Research Triangle Park, North Carolina. October 11, 1995.

5. Modeling the population dynamics of simple sequence repeats. Presented at the Workshop on Statistical Methods in Genetic Mapping, Tarrytown, New York, November 13 to 15. (The workshop was organized by Jurg Ott and Hellen Donis-Keller)
6. Linkage disequilibrium mapping: Problems and prospects. Presented at Banbury Center meeting, Looking to the Next Generation of Genetic Analysis, Cold Spring Harbor Laboratory, November 28 to December 1, 1995. (The meeting was organized by Aravinda Chakravarti and Eric Lander)
7. Invited speaker for the Workshop on Human Genome Analysis: Genetic analysis of multifactorial diseases, organized by the Wellcome Trust Center for Human Genetics, University of Oxford, Windmill Road, Headington, Oxford. July 21--36, 1996.
8. Linkage disequilibrium mapping: Theory and Applications. Presented at the Program for Population Genetics and the Department of Biostatistics, Harvard University, Boston, December 9, 1996.
9. Linkage disequilibrium mapping: Theory and Applications. Presented at the Statistical Genetics Laboratory, Rockefeller University, New York, December 10, 1996.
10. Linkage disequilibrium mapping: Theory and Applications. Presented at The Jackson Laboratories, Bar Harbor, Maine, December 12, 1996.
11. Invited presentation. Threshold distribution of phenylthiocarbamide (PTC) in the Chinese population. The International Symposium on Olfaction and Taste XII and the Association for Chemoreception Science XIX, July 8, 1997, San Diego.
12. Invited Lecturer, Linkage Disequilibrium in Medical Genetics, Haartman Institute, University of Helsinki, Helsinki, Finland, September 9--12, 1997.
13. Population Genetics and Genetic Epidemiology. Presented at the Institute of Genetics, Fudan University, Shanghai, September 30, 1997.
14. Fine-scale mapping and dating disease mutations based on linkage disequilibrium. Presented at the Fred Hutchinson Cancer Center, Seattle, October 17, 1997.
15. Resolving a paradox in reproductive epidemiology: A reverse genetic epidemiologic approach. The Mayo Clinic, Rochester, Minnesota. January 5, 1998
16. Resolving a paradox in reproductive epidemiology: A reverse genetic epidemiologic approach. Presented at the Kresge Center for Environmental Health, Program for Population Genetics, and the Department of Biostatistics, Harvard University, Boston, February 6, 1998.
17. Genetic analysis of bitterness-tasting ability in humans. Presented at the Kellogg's Sensory Summit, Kellogg Company, Battle Creek, Michigan, April 16-17, 1998.
18. The impact of gene-environment interaction on genetic mapping of complex traits. Presented at The Workshop on Novel Study Designs and Analytical Approaches in the Genetic Epidemiology of Cancer. (Organized by Ken Beutow, Duncan Thomas, and Alice Whittemore), Seattle, Washington, May 27--29, 1998.

19. The impact of gene-environment interaction on genetic mapping of complex traits. Presented at the Division of Biostatistics, School of Medicine, Washington University, St. Louis, November 16, 1998.
20. Invited lecturer, The Third National Workshop on Genetic Epidemiologic Approaches to Human Diseases. Organized by Drs. Fumin Shen and Shangzhi Huang, sponsored by the Society of Medical Genetics, Chinese Association of Medicine, the Society of Population Genetics, Chinese Association of Preventive Medicine, Shanghai Center for Genetic Medicine. To be held in Shanghai, June 27-July 2, 1999.
21. Genetic dissection of complex traits: Promises, problems, and prospects. Presented at Shanghai National Center for Human Genome Research, July 5, 1999.
22. Transcriptomics approach to genetic dissection of complex diseases: A paradigm shift? Lynx Therapeutics Inc., Hayward, CA, May 30, 2000.
23. Transcriptomics approach to genetic dissection of complex diseases: A paradigm shift? Marshfield Research Foundation, Marshfield, Wisconsin, July 5, 2000.
24. Biases in the genetic epidemiologic study of sexual orientation: Sources and consequences. American Statistics Society, Indianapolis, IN. August 15, 2000.
25. Assessment of familial aggregation of chronic diseases. Presented at the International Diabetes Epidemiology Group Meeting (A satellite meeting to The 17th International Diabetes Federation Meeting, Acapulco, Mexico, November 3, 2000
26. Genetic Mapping of Complex Diseases. Invited session of the Institute of Mathematical Statistics (IMS), 2001 Spring Meeting, Charlotte, North Carolina, March 26, 2001.
27. Genetic mapping complex diseases. Invited speaker, International Symposium on Mapping and Identification of Genes for Complex Polygenic Traits and Diseases. May 23-26, 2001, Changsha, China.
28. Gene identity by descent, genome survival, and gene mapping. Special session on Oscar Kempthorne and his influence on population and quantitative genetics, XII International Biometric Conference, July 21-26, 2002.
29. Cracking the enigma of endometriosis. Dept. of Biostatistics, University of North Carolina, Chapel Hill, NC. October 9th, 2002.
30. Endometriosis: From epidemiology to molecular genetics. Presented at the First National Workshop on Endometriosis. Sponsored by the Ministry of Health, Shanghai, China. October 29—November 3, 2002.
31. Cracking the enigma of endometriosis: From epidemiology to molecular genetics. School of Pharmacy, Harbin Medical University, Harbin, China. November 4, 2002.
32. Cracking the enigma of endometriosis: From epidemiology to molecular genetics. Dept. of Gynecology and Obstetrics, General Hospital of the People's Liberation Army (301 Hospital), Beijing, China. November 5, 2002.

33. Endometriosis: From epidemiology to molecular genetics. Presented at the Second National Workshop on Endometriosis. Sponsored by the Ministry of Health, Shanghai, China. October 28-31, 2003.
34. Gene expression profiling of inhibitor formation in hemophilia A. Invited talk at the symposium, *Perspectivas de La Genetica en hemofilia: Una vision para, Los hemotologos*, organized by Jordi Fontcuberta, and Eduardo Tizzano, and sponsored by the Bayer HealthCare, at the Hospital de Sant Pau, Barcelona, Spain, on May 20, 2004.
35. Cracking the enigma of endometriosis. Presented at the Department of Gynecology and Obstetrics, University of Wisconsin at Madison, July 29, 2004.
36. Endometriosis: From epidemiology to molecular genetics. Presented at the Second National Workshop on Endometriosis. Sponsored by the Ministry of Health, Shanghai, China. October 14-21, 2004.
37. Genetic and epigenetic approaches to endometriosis: Presented at the Reproductive Biology Research Luncheon Seminar (key speaker of the month of October), Department of Gynecology and Obstetrics and R.H. Lurie Comprehensive Cancer Center, Northwestern University, October 27, 2005
38. Cracking the enigma of endometriosis. Presented at the Department of Physiology and Biophysics and the Department of Gynecology and Obstetrics, University of Illinois in Chicago, October 28, 2005.
39. Two failed clinical trials on endometriosis and a few lessons. Presented at the Department of Gynecology and Obstetrics, Shanghai OB/GYN Hospital, Fudan University. November 3, 2005.
40. Endometriosis: From epidemiology to molecular biology. Presented at the Third National Workshop on Endometriosis. Sponsored by the Ministry of Health, Shanghai, China. November 2-5, 2005.
41. Endometriosis: An ultimate epigenetic disease? Presented at the Endometrial Satellite Symposium of the Annual Society of Gynecological Investigation, Toronto, Canada. March 22, 2006.
42. Endometriosis as an epigenetic disease: Further insight into its pathogenesis and implications for its treatment. Presented at the Shanghai International Workshop on Endometriosis, June 4-5, 2006, Shanghai, China.
43. Clinical trials on endometriosis: Design, execution, registration, and lessons learned from failed ones. Presented at the Shanghai Branch of the Chinese Medical Association 2006 OB/GYN Group meeting, December 23, 2006, Shanghai, China.
44. How to conduct a successful clinical research? Presented at the 2nd Yangtze Delta Region OB/GYN Conference, Shanghai, September 22, 2007.
45. Endometriosis research: From bedside to bench and back. Presented at Nanjing Infant and Maternal Health Hospital, October 17, 2007, Nanjing, China.
46. The “Gene war of the century” and a few lessons learned. Presented at BIONET 4th Workshop, Biobanking and Personal Genomes: Challenges and Futures for EU-China Collaborations. April 27-29, Shenzhen, China

47. The Western-Traditional Chinese Medicine integrated approach to treatment of endometriosis: Current status, Assessment, and the future. Keynote speaker, The National Western-Traditional Chinese Medicine integrated approach to endometriosis. August 28, 2009. Weihai, Shandong, China.
48. Special guest speaker: 1) Epigenetics of endometriosis; 2) Recurrence of endometriosis and its control. Presented at the First Japan Endometriosis Forum, November 7, 2009. Yonago, Japan.
49. Recurrence of endometriosis and its control. Presented at the 7th Annual Conference of OB/GYN Department, Sohag Faculty of Medicine, Sohag University, Aswan, Egypt, February 11, 2010.
50. Invited podium speaker: Epigenetics of endometriosis, Presented at the 3rd Congress of the Asia Pacific Initiative on Reproduction (ASPIRE 2010) on April 10, 2010, in Pattaya, Thailand.
51. Invited speaker, Epigenetics of endometriosis: From bench to bedside, Presented at the 3rd International Congress on Reproductive Endocrinology and Genetics. June 19, 2010, in Hangzhou, China
52. Invited Podium Speaker, Clinical trials on endometriosis: Challenges, Opportunities, and Reflections. Presented at the Fourth National Workshop on Endometriosis and Chronic Pelvic Pain, Qingdao, June 18, 2011.
53. Invited speaker, The challenges and opportunities in drug R&D in endometriosis and adenomyosis. Tianjin Tansly Institute, Tianjin, June 28, 2011.
54. Key Laboratory Guest Seminar: The epigenetics of endometriosis: The metamorphogenetic journey of a statistical geneticist. Presented in the Institute of Health Sciences, Shanghai Institutes of Biological Sciences, July 27, 2011.
55. Lecturer, Pre-Congress Course, Endometrium, Presented at the 11th World Congress on Endometriosis, September 4, 2011, Montepillier, France.
56. Keynote speaker: Is endometriosis a pre-neoplastic condition? Presented at the 11th World Congress on Endometriosis, September 5, 2011, Montepillier, France.
57. Invited speaker: The drug research and development in endometriosis: Why is like “waiting for Godot”? Presented at the Symposium for Endometriosis and Adenomyosis: From Basic to Clinical”, organized by Taiwan Association for Minimally Invasive Gynecology, September 11, Tainan, Taiwan, China
58. Invited speaker: Is there a causal link between endometriosis and ovarian cancer? Presented at the 7th Congress of the Federation of Asian and Oceanian Physiological Societies, September 12, Taipei, Taiwan, China
59. Invited speaker: Is there a causal link between endometriosis and ovarian cancer? Presented at the workshop on the New Development in endometriosis research, organized by Prof. Xinmei Zhang of Zhejiang University, October 22, 2011, Hangzhou.
60. Invited speaker: Is there a causal link between endometriosis and ovarian cancer? Presented at the Workshop on the new development in the Integrated Western and Traditional Chinese Medicine approach to treatment of endometriosis, organized by the Yueyang Hospital, Shanghai University of Traditional Chinese Medicine, December 2, 2011.
61. Invited speaker: The drug research and development in endometriosis: Why is like “waiting for Godot”? Presented at the School of Basic Medicine, Guangdong Pharmaceutical University, Guangzhou, December 19, 2011.

62. Invited speaker: TBA. The 13th Annual Asia-Pacific Association for Gynecologic Endoscopy and Minimally Invasive Therapy (APAGE 2012), November 28-30, 2012 in Pattaya, Thailand

BIBLIOGRAPHY

h-index: 30

Total number of citations: 5,000+

Refereed Journal Publications

1. **Guo SW**, Zhang ZH, Shen FM, Xu SJ (1985) Cox regression model and its applications to medicine. (In Chinese) *Acta Academiae Medicinae Primae Shanghai* 12, 289--295.
2. Shi YQ, **Guo SW**, Zhang ZH (1985) A prognostic multifactorial analysis of neuroblastoma. (In Chinese) *Acta Academiae Medicinae Primae Shanghai* 12, 51--56.
3. 李瑛, 汪蓉芬, 高小刚, 王京玲, 陶静藏, **郭孙伟**, 蔡文玮; 江苏省两个县计划生育综合措施实行情况的比较 [J]; *江苏医药*; 1987年01期; 37-38
4. Van Belle G, Leurgans S, Friel P, **Guo SW**, Yerby M (1989) Determination of enzyme or binding constant using generalized linear models, with particular reference to Michaelis-Menten models. *Journal of Pharmaceutical Science* 78:413--417.
5. **Guo SW**, Thompson EA (1991) Monte Carlo estimation of variance component models for large complex pedigrees. *IMA J. Math. Appl. in Med. and Biol.* 8:171--189.
6. Thompson EA, **Guo SW** (1991) Evaluation of likelihood ratios for complex genetic models. *IMA J. Math. Appl. in Med. and Biol.* 8:149--169.
7. Blossey H, **Guo SW**, McKnight B, Tierney C, Thompson E, Wijsman E (1991) Linkage analysis of malignant melanoma with two chromosome 1 markers. *Cytogenetics and Cell Genetics* 59:182--184.
8. Austin MA, Wijsman EM, **Guo SW**, Krauss RM, Brunzell JD, Deeb S (1992) Low-density lipoprotein subclass phenotypes are not linked to the Apolipoprotein B locus in Familial Combined Hyperlipidemia. *Genetic Epidemiology* 8:287--297.
9. **Guo SW**, Thompson EA (1992) Performing the exact test of Hardy-Weinberg proportions for multiple alleles. *Biometrics* 48:361--372.
10. **Guo SW**, Thompson EA (1992) A Monte Carlo method for combined segregation and linkage analysis. *American Journal of Human Genetics* 51:1111--1126.
11. Flejter WL, Barcroft CL, **Guo SW**, Lynch ED, Boehnke M, Chandrasekharappa S, Collins FS, Weber BL, Glover TW. (1993) Multicolor FISH mapping with Alu-PCR amplified YAC clone DNA determines the order of markers in the BRCA1 region on chromosome 17q12-q21. *Genomics* 17:624--632.

12. Chamberlain JS, Boehnke M, Frank TS, Kiouisis S, Xu JX, **Guo SW**, Hauser ER, Norum RA, Helmbold EA, Markel D, Keshavarzi SM, Jackson CE, Calzone K, Garber J, Collins FS, Weber BL (1993) Further narrowing of the BRCA1 region on chromosome 17q12-21 by genetic analysis. *American Journal of Human Genetics* 52:792--798.
13. Schork N and **Guo, SW**. (1993) Pedigree models for complex human traits involving the mitochondrial genome. *American Journal of Human Genetics* 53:1320--1337.
14. **Guo SW** (1994a) Proportion of genes survived in offspring conditional on inheritance of flanking markers. *Genetics* 138:953--962.
15. **Guo SW** (1994b) Computation of identity by descent proportions shared by two siblings. *American Journal of Human Genetics* 54:1104--1109.
16. Wilke CM, **Guo SW**, Hall BK, Boldog F, Gemmill RM, Chandrasekharappa SC, Drabkin HA, Glover TW (1994) Multicolor FISH mapping of YAC clones in 3p14 and identification of a YAC spanning both FRA3B and the t(3;8) associated with hereditary renal cell carcinoma. *Genomics* 22:319-326.
17. **Guo SW**, Lin DY (1994) Regression analysis of multivariate grouped survival data. *Biometrics* 50:632--639.
18. Elder JT, Nair RP, **Guo SW**, Henseler T, Christophers E, Voorhees JJ (1994) The genetics of psoriasis. *Arch Dermatol* 130:216-224.
19. **Guo SW** and Thompson EA (1994) Monte Carlo estimation of mixed models on large and complex pedigrees. *Biometrics* 50:417--432.
20. **Guo SW** (1995a) Proportion of genome shared identical-by-descent by relatives: Concept, computation, and applications. *American Journal of Human Genetics*, 56:1468--1476.
21. **Guo SW** (1995b) Identification of genome similarity as an exploratory tool for mapping complex traits. *Genetic Epidemiology* 12:877--882.
22. Nair RP, **Guo SW**, Henseler T, Jenisch S, Lange M, Terhune M, Westphal E, Muller-Ruckholz W, Christophers E, Voorhees JJ, Elder JT. (1995) Scanning chromosome 17 for psoriasis susceptibility gene: Lack of evidence for a distal 17q locus. *Human Heredity* 45:219-230.
23. **Guo SW**. (1995c) Variations in genetic identity among relatives. *Human Heredity* 46:61-70.
24. Hauser ER, Boehnke M, **Guo SW**, Risch N (1996) Affected-sib-pair interval mapping and exclusion for complex genetic traits: Sampling considerations. *Genetic Epidemiology*, 13:117--137.
25. **Guo SW** (1996) Gametogenesis processes and multilocus gene identity by descent. *American Journal of Human Genetics* 58:408--419.
26. **Guo SW**, Flejter WL (1996) Statistical methods for gene map construction by fluorescence in situ hybridization (FISH). *Genome Research*, 6:1133--1148.
27. **Guo SW** (1997) Computation of multilocus prior probability of autozygosity for complex inbred pedigrees. *Genetic Epidemiology* 14:1--14

28. **Guo SW**, Xiong M (1997a) Genes Preserved in Relatives. *Human Heredity* 47:138--154
29. Xiong M, **Guo SW** (1997a) Fine-scale mapping of quantitative trait loci using historical recombinations. *Genetics*, 145:1201--1218.
30. Xiong M, **Guo SW** (1997b) Fine-scale mapping based on linkage disequilibrium: Theory and applications. *American Journal of Human Genetics* 60:1513--1531.
31. Nair RP, Henseler T, Jenisch S, Stuart P, Bichakjian CK, Lenk W, Westphal E, **Guo SW**, Christophers E, Voorhees JJ, Elder1 JT (1997) Evidence for two psoriasis susceptibility loci (HLA and 17q) and two novel candidate regions (16q and 20p) by genome-wide scan. *Human Molecular Genetics* 6:1349--1356.
32. Mirzayans F, Mears AJ, **Guo SW**, Pearce WG, Walter MA (1997) Identification of the human chromosomal region containing the iridogoniodysgenesis anomaly locus by genomic mismatch scanning. *American Journal of Human Genetics* 61:111--119.
33. **Guo SW** (1997b) Linkage disequilibrium measures for fine-scale mapping: A comparison. *Human Heredity* 47:301--314.
34. **Guo SW**, Xiong M (1997b) Estimating the age of mutant disease alleles based on linkage disequilibrium. *Human Heredity* 47:315--337.
35. Jenisch S, Henseler T, Nair R, **Guo SW**, Westphal E, Stuart P, Kronke M, Voorhees J, Christophers E, Elder J (1998) Linkage analysis of HLA markers in familial psoriasis: Strong disequilibrium effects provide evidence for a major determinant in the HLA-B/-C region. *Am J Hum Genet* 63:191--199.
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