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## Education & Training

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| 1988–1990 | Georg-August-Universität, Göttingen, Germany | Vordiplom | Biology |
| 1990–1991 | University of California, San Diego, CA | – | Biology |
| 1991–1992 | Georg-August-Universität, Göttingen, Germany | – | Biology |
| 1992–1993 | Columbia University, New York, NY | M.A. | Molecular Genetics |
| 1993–1996 | Columbia University, New York, NY | M.Ph. | Statistical Genetics |
| 1996–2000 | Columbia University, New York, NY | Ph.D. | Statistical Genetics |

## Research Focus

To what degree do we inherit predisposition to disease, life expectancy, and personal skills, predilections, and behaviors? What are the specific genetic factors involved in shaping these characteristics? To address these questions, Dr. Göring's research group works on two aspects of genetic epidemiology, the development of statistical methods for genetic analysis and the application of those methods to well-designed human datasets.

On the methodological front, one current project of Dr. Göring's research group is to develop ways to localize and identify rare genomic variants with strong phenotypic impact on complex traits in extended pedigree samples. Specifically, his research group is taking advantage of genotyped rare variants from whole genome sequence data to phase and impute missing genotype data, and they are developing methods for assessing the phenotypic effect of unique chromosome segments (found only in a single pedigree founder and his/her descendants) on disease and disease-related quantitative risk factors.

On the applied front, Dr. Göring's research group is involved in several studies that integrate genotypic data and other "omics" technology-generated data to unravel trait etiology. A recent project involved the search for differences in gene expression between schizophrenic individuals and controls. His research group examined the expression patterns of case and control lymphoblastoid cell lines (from both European ancestry and African American individuals) before and after stimulation with the neurotransmitter dopamine, with the hope that the identified differences reveal information about the etiology of schizophrenia.

Dr. Göring's group is also seeking to identify early metabolomic biomarkers for cardiovascular disease and type 2 diabetes. They are characterizing the metabolome of blood plasma samples using a highly sensitive separation methodology (untargeted two-dimensional gas chromatography approach coupled to time-of-flight mass spectrometry) to identify specific molecules or chemical signatures that predict elevated risk of disease onset. A recent metabolomic project was focused on large Mexican American families, and a current project involves Sikhs from India.

# Publications

Articles


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3. Gieser L, Fujita R, **Göring HHH**, Ott J, Hoffman DR, Cideciyan AV, Birch DG, Jacobson SG, Swaroop A (1998) A novel locus (RP24) for X-linked retinitis pigmentosa maps to Xq26–27. Am J Hum Genet 63:1439–1447
4. Annunen S, Paassilta P, Lohiniva J, Perälä M, Pihlajamaa T, Karppinen J, Tervonen 0, Kröger H, Lähde S, Vanharanta H, Ryhänen L, **Göring HHH**, Ott J, Prockop DJ, Ala-Kokko L (1999) An allele of COL9A2 associated with intervertebral disc disease. Science 285:409–412
5. Le Saux O, Urban Z, **Göring HHH**, Csiszar K, Pope FM, Richards A, Pasquali-Ronchetti I, Terry S, Bercovitch L, Lebwohl MG, Breuning M, van den Berg P, Kornet L, Ott J, de Jong PTVM, Bergen AAB and Boyd CD (1999) Pseudoxanthoma elasticum maps to an 820-kb region of the p13.1 region of chromosome 16. Genomics 62:1–10
6. **Göring HHH**, Terwilliger JD (2000) Linkage analysis in the presence of errors I: Complex-valued recombination fractions and complex phenotypes. Am J Hum Genet 66:1095–1106 [erratum in (2000) Am J Hum Genet 66:1472]
7. **Göring HHH**, Terwilliger JD (2000) Linkage analysis in the presence of errors II: Marker-locus genotyping errors modeled with hypercomplex recombination fractions. Am J Hum Genet 66:1107–1118 [erratum in (2000) Am J Hum Genet 66:1472]
8. **Göring HHH**, Terwilliger JD (2000) Linkage analysis in the presence of errors III: Marker loci and their map as nuisance parameters. Am J Hum Genet 66:1298–1309
9. **Göring HHH**, Terwilliger JD (2000) Linkage analysis in the presence of errors IV: Joint pseudomarker analysis of linkage and/or linkage disequilibrium on a mixture of pedigrees and singletons when the mode of inheritance cannot be accurately specified. Am J Hum

Genet:1310–1327

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12. **Göring HHH**, Terwilliger JD, Blangero J (2001) Large upward bias in estimation of locus-specific effects from genome-wide scans. Am J Hum Genet 69:1357–1369
13. **Göring HHH**, Williams JT, Blangero J (2001) Linkage analysis of quantitative traits in randomly ascertained pedigrees: Comparison of penetrance-based and variance component analysis. Genet Epidemiol 21 (Suppl 1):S783–S788
14. Hsueh W-C, **Göring HHH**, Blangero J, Mitchell BD (2001) Replication of linkage to quantitative trait loci: Variation in location and magnitude of the LOD score. Genet Epidemiol 21 (Suppl 1):S473–S478
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16. Paassilta P, Lohiniva J, **Göring HHH**, Perälä M, Räinä SS, Karppinen J, Hakala M, Palm T, Kröger H, Kaitila I, Vanharanta H, Ott J, Ala-Kokko L (2001) First common genetic risk factor for lumbar disk disease. JAMA 285:1843–1849
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18. Williams JT, North KE, Martin LJ, Comuzzie AG, **Göring HHH**, Blangero J (2001) Distribution of lod scores in oligogenic linkage analysis. Genet Epidemiol 21 (Suppl 1):S805–S810
19. Bissler JJ, Tsoras M, **Göring HHH**, Hug P, Chuck G, Tombragel E, McGraw C, Schlotman J, Ralston MA, Hug G (2002) Infantile dilated X-linked cardiomyopathy, G4.5 mutations, altered lipids and ultrastructural malformations of mitochondria in heart, liver and skeletal muscle. Lab Invest 82:335–344
20. Hunt K, Duggirala R, **Göring HHH**, Williams JT, Almasy L, Mitchell BD, Blangero J, O'Leary DH, Stern MP (2002) Genetic basis of variation in carotid artery plaque: The San Antonio Family Heart Study (SAFHS). Stroke 33:2775–2780
21. Le Saux O, Beck K, Sachsinger C, Treiber C, **Göring HHH**, Curry K, Johnson EW, Bercovitch L, Marais A-S, Terry SF, Viljoen DL, Boyd CD (2002) Evidence for a founder effect in the Afrikaner population of South Africa with pseudoxanthoma elasticum. Hum Genet 111:331–338
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39. Lehman DM, Hamlington J, Hunt KJ, Leach RJ, Arya R, Abboud H, Duggirala R, Blangero J, **Göring HHH**, Stern MP (2006) A novel missense mutation in ADRB3 increases risk for type 2 diabetes in a Mexican American family. Diabetes Metab Res Rev 22:331–336

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41. Almasy L, **Göring HHH**, Diego V, Cole SA, Laston S, Dyke B, Howard BV, Lee ET, Best LG, Devereux R, Fabsitz RR, MacCluer JW (2007) A novel obesity locus on chromosome 4q: The Strong Heart Study. Obesity 15:1741–1748

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