

A Statistical Approach to Genetic Epidemiology- Concepts and Applications (Second Edition)

By Andreas Ziegler, Inke R. König, Friedrich Pahlke

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This is the second edition of the successful textbook written by the prize-winning scientist Andreas Ziegler, former President of the German Chapter of the International Biometric Society, and Inke Konig, who has been teaching the subject over many years.
The book gives a comprehensive introduction into the relevant statistical methods in genetic epidemiology. The second edition is thoroughly revised, partly rewritten and includes now chapters on segregation analysis, twin studies and estimation of heritability. The book is ideally suited for advanced students in epidemiology, genetics, statistics, bioinformatics and biomathematics.
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Editorial Review

Review

“This is a well-written, quality addition to the literature. It is an excellent resource/textbook for those wanting to teach genetic epidemiology as well as those wishing to learn the basics of genetic epidemiology. The new edition improves on the previous edition and expands on necessary topics that have grown in importance over the last five years.” (*Doody’s*, 4 January 2013)

About the Author
After studying statistics and mathematics at the University of Munich and obtaining his doctoral degree from the University of Dortmund, Andreas Ziegler received the Johann-Peter-Süßmilch-Medal of the German Association for Medical Informatics, Biometry and Epidemiology for his post-doctoral work on "Model Free Linkage Analysis of Quantitative Traits" in 1999. In 2004, he was one of the recipients of the Fritz-Linder-Forum-Award from the German Association for Surgery. Andreas Ziegler is head of the Institute for Medical Biometry and Statistics at the University Clinic Schleswig-Holstein in Lübeck, an acknowledged center of excellence for genetic epidemiological methods. Currently he is President of the German Region of the International Biometric Society.

Inke R. König studied psychology at the universities of Marburg (Germany) as a scholar of the German National Academic Foundation and Dundee (Scotland) with a grant from the German Academic Exchange Service (DAAD). She has done research work at the Institute of Medical Biometry and Epidemiology in Marburg and since 2001 at the Institute of Medical Biometry and Statistics in Lübeck. In 2004, she became vice director of the latter and also received the Fritz-Linder-Forum-Award from the German Association for Surgery. Besides holding the certificate "Biometrics in Medicine", she has collected teaching experience since 1998 as a lecturer for biomathematics, behavioural genetics, clinical epidemiology, genetic epidemiology, and evidence-based medicine.

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