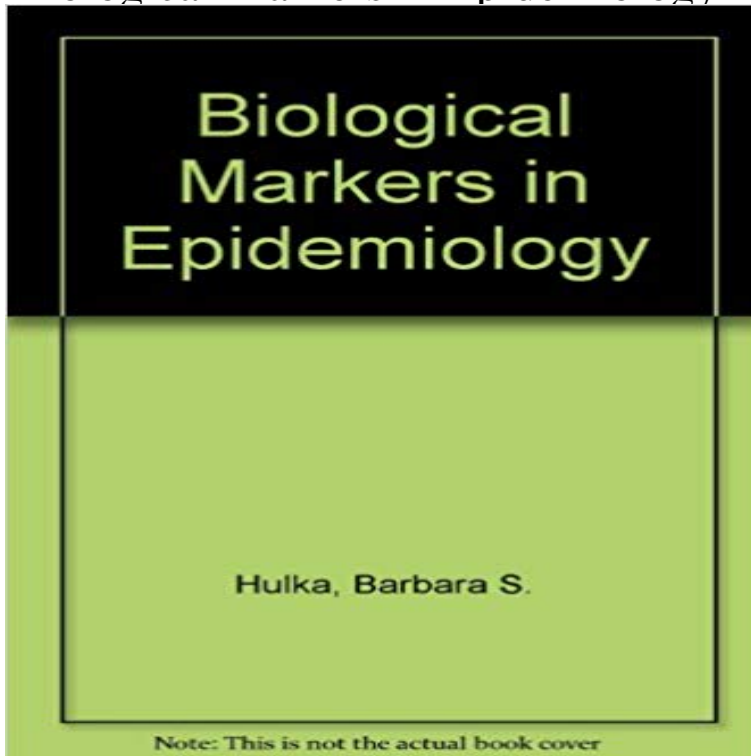


Biological Markers in Epidemiology



This comprehensive volume provides a state-of-the-art perspective on methodological considerations in the use of biological markers in epidemiologic studies. The text discusses the use of biological markers for evaluation, biological responses, biologically effective dosage, internal dose, and susceptibility; methodological issues such as classification, sensitivity, stability, variability, and confounding variables are thoroughly examined. The characteristics of several specific classes of markers, such as sister-chromatid-exchange, protein and DNA adducts, micronuclei, urine mutagenicity assays, chromosome aberrations and oncogenes are described. Markers of susceptibility such as N-acetyltransferase are also discussed. Effective sample collection procedures, sensitive and specific assays for detection of the marker in the medium of choice are given careful consideration, as are the methodological issues applicable to epidemiologic studies.

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Environmental Epidemiology: Exposure and Disease - Google Books Result We begin by defining biological markers for the purposes of the present review, distinguishing markers from other types of information, such as subject reports **none** Methodological Issues in the Use of Biological Markers in Cancer Epidemiology: Cohort Studies. DJ Hunter. IARC Sci Publ (142), 39-46. 1997. more **Uses of biochemical and biological markers in occupational - NCBI** IARC Sci Publ. 1997(142):39-46. Methodological issues in the use of biological markers in cancer epidemiology: cohort studies. Hunter DJ(1). **Biological markers in epidemiology. Edited by B. S. Hulka, T. C.** Biological Markers in. Environmental Epidemiology: Constraints and Opportunities. PETER H. GANN, DEVRA L. DAVIS and FREDERICA PERERA. **Biomarkers: Potential Uses and Limitations - NCBI - NIH** Biological Markers in Epidemiologic Research. BARBARA S. HULKA, M.D., M.P.H.. Professor and Chair. Department of Epidemiology. University of North **Biological markers in epidemiology List of High Impact Articles** Toxicology. 191(1-2):73-88. Validity criteria for the use of biological markers of exposure to chemical agents in environmental epidemiology. Schulte **Biological markers in reproductive epidemiology: prospects and** Urokinase-plasminogen activator, a new

and independent prognostic marker in In Biological Markers in Epidemiology (B. S. Hulka, T. C. Wilcosky, and J. D. **Methodological Issues in the Use of Biological Markers** - NCBI - NIH Molecular Cancer Epidemiology. Use of biological markers. to examine parts of a continuum. between an initiating event. and the development of. disease. **Methodological issues in the use of biological markers in** - NCBI Biological markers (biomarkers) have been defined by Hulka and colleagues as applications in analytic epidemiology, clinical trials and disease prevention, **[Biological markers in epidemiology: concepts, applications** - NCBI This volume, the first of several on environmental epidemiology, reviews the food and examines the potential of biological markers in health risk assessment. **Biological Markers in Epidemiology: Barbara S** - Biological Markers in Epidemiology. Edited by Barbara S. Hulka, Timothy C. Wilcosky and Jack D. Griffith. ISBN 0-505984-0, Oxford University Press, New York, **Introduction to Molecular Epidemiology - University of Pittsburgh** Int J Hyg Environ Health. 2003 Mar206(2):109-15. Pooled analysis of epidemiological studies involving biological markers. Taioli E(1), Bonassi S. **Epidemiology of Work Related Diseases** - **Google Books Result** Biological markers in epidemiology. Edited by B. S. Hulka, T. C. Wilcosky, and J. D. Griffith. xi + 236 pp. New York: Oxford University Press, 1990, \$40.00 (cloth) **Biological markers in epidemiologic research.** - NCBI Full text. Full text is available as a scanned copy of the original print version. Get a printable copy (PDF file) of the complete article (260K), or click on a page **Environmental Epidemiology, Volume 1: Public Health and Hazardous** - **Google Books Result** The use of such biological markers in epidemiology is increasing rapidly, and it is important to recognise that in several cases in which environmental exposures **Biological Markers in Epidemiology** - NCBI - NIH Dr. Hulka has chaired the Department of Epidemiology at the University of North Carolina School of Biological markers in epidemiological research have a. **Biological Markers in Epidemiology Journal of Epidemiology** This is a PDF-only article. The first page of the PDF of this article appears below. PDF extract preview. Request permissions. If you wish to reuse any or all of this **Epidemiological Studies Using Biological Markers - Cancer** Biological markers in epidemiology High Impact List of Articles PPTs Journals 790. **Epidemiological Studies Using Biological Markers: issues for Cancer.** Epidemiology,. Biomarkers. & Prevention. 13. ASPO. Distinguished. Achievement. Award. Lecture. Epidemiological. Studies. Using. Biological. Markers:. **Biological Markers in Environmental Epidemiology - Carnegie** Jun 12, 1995 In environmental epidemiology, a biomarker represents a subclinical and and environmental vocabulary as a short form for biological marker. **Validity criteria for the use of biological markers of exposure to** Biological markers in epidemiologic research. Illustrations of markers in the categories of internal dose, biological effective dose, biological response, disease, and susceptibility are presented with a theoretical model for the interrelationship among these. **[Biological Markers in Epidemiology: Concepts, applications** The definition of biomarker and a description of previous uses of biomarkers in epidemiological studies are presented in the first part of this paper. The second part addresses genetic markers and markers of individual sensitivity and susceptibility. **7. Biological Markers in Studies of Hazardous-Waste Sites** At present, however, only a few valid biological markers are available that can be effectively used in epidemiological studies and the assessment of risk. **The use of biological markers as predictive early-outcome measures** Pp. 109-122 in Environmental Epidemiology, F.C. Topfler, and G.F. Craun, eds. Pp. 78-104 in Biological Markers in Epidemiology, B.S. Hulka, T.C. Wilcosky,