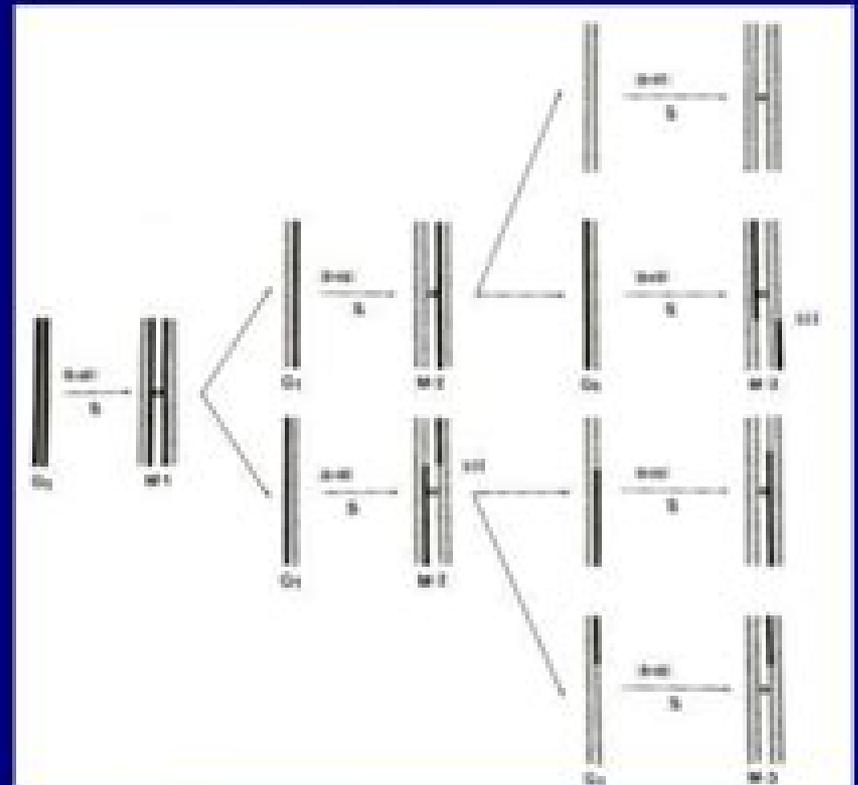


SISTER CHROMATID EXCHANGE

- To obtain SCE asymmetric incorporation of BrdU (bromodeoxyuridine) in chromosomal DNA is essential.
- This achieved by incorporating BrdU, into replicating DNA for two successive cell cycles.
- This results in SCE by a faintly stained chromatid containing bifilarly BrdU-substituted DNA and a brightly stained sister chromatid unbifilarly BrdU-substituted DNA



Sister Chromatid Exchange

Sheldon Wolff



Sister Chromatid Exchange:

Sister Chromatid Exchange Avery A. Sandberg,1982 Sister Chromatid Exchange Sheldon Wolff,1982 *Sister Chromatid Exchanges* Raymond Tice,2013-06-29 Chromosomes being well defined structures that are easily visible under the optical microscope readily lend themselves to intense physical and biochemical study The understanding of the structure and function of this most critical genetic material has progressed through a number of interesting stages Often connected with the development of new techniques in staining and photography using the standard microscope and the electron microscope It is interesting to look back at the history of cytogenetics I would like especially to emphasize the work of Karl Sax and many of his students Work with *Tradescantia* became feasible after Edgar Anderson straightened out the ecology and Sax took advantage of the small number of chromosomes easily visible under the microscope As a matter of fact this development is seen as the foundation for the quantitative analysis of radiation effects on chromosomes During the 50 years since then more refined studies have been initiated The study of cytogenetic mechanisms has become an important tool for the recognition of the effects of environmental factors on all living systems and has made SCE studies possible One of the most important stages in chromosome research was the development in radiation biology of radiolabeling the chromosome with tritiated thymidine This technique published in 1957 by Dr

Alterations of the Sister Chromatid Exchange Frequency in Peripheral Lymphocytes Caused by an Ironman Triathlon Marlies Meisel,2008-02 Diploma Thesis from the year 2007 in the subject Medicine Human Genetics grade 1 0 University of Vienna Institut für Ernährungswissenschaften 96 entries in the bibliography language English abstract The aim of the present study was to investigate the effect of a triathlon 3 8 km swim 180 km cycle 42 2 km run on the genomic stability of nine highly trained non professional athletes Therefore the SCE assay a relevant biological response marker for genotoxicity in human biomonitoring studies PENDZICH et al 1997 was performed using peripheral lymphocytes on account of their effortless accessibility WILKOSCY and RYNARD 1990 Duplicate lymphocyte cell cultures of each participant were incubated for 72 h 37 C 5% CO₂ according to a short term human lymphocyte cell culture For each participant at least 50 metaphases containing 43 46 chromosomes were scored to evaluate the mean SCE frequency The number of SCEs per cell was calculated to a chromosome set of a normal diploid human cell containing 46 chromosomes In the present study the alteration of SCE frequency 48 h pre and 24 h posttrace was evaluated As an additional endpoint Top 5 HFCs highest five absolute SCE means were assayed It could be demonstrated that both the total mean SCE frequency and the mean Top 5 HFC frequency 9 24 h posttrace were significantly decreased p

Sister Chromatid Exchange Sheldon Wolff,1982 *Sister chromatid exchanges* Raymond R. Tice,1984 *Sister Chromatid Exchange in Marine Polychaetes Exposed to Black Rock Harbor Sediment* ,1987 Aspects on Sister Chromatid Exchange in Human Lymphocytes Karin Hedner,1983 *Sister Chromatid Exchange in Mammalian Chromosomes* Dorothy Ann Gibson,1971 **Application of Sister Chromatid Exchange in Marine Polychaetes to Black Rock Harbor**

Sediment Gerald G. Pesch, United States. Environmental Protection Agency, 1985 This report presents an evaluation of the applicability of the cytogenetic technique of sister chromatid exchange SCE to measure genotoxic effects of highly contaminated dredged material and the degree of variability and reproducibility inherent in the procedure This project is part of the US Environmental Protection Agency Corps of Engineers Field Verification Program The SCE technique was applied to *Nephtys incisa* an infaunal polychaete dominant in the benthic community at the Central Long Island Sound disposal site The SCE response was measured in *N. incisa* exposed to suspended particulate and bedded phases of Black Rock Harbor BRH sediment in the laboratory *Neanthes arenaceodentata* a surrogate species was tested in parallel to *N. incisa* With the exception of one treatment in one experiment the worm chromosomes were uniformly nonresponsive to BRH sediment Replicate treatments within an experiment did not differ significantly for *N. arenaceodentata* Differences between experiments and between species within an experiment were found The reason for the differences are known Differences in ability to metabolize polynuclear aromatic hydrocarbons found in high concentrations in BRH sediments is a likely but speculative reason Clearly additional research is needed before SCE could be used for routine testing

Sister Chromatid Exchanges Raymond R. Tice, Alexander Hollaender, 1984 Chromosomes being well defined structures that are easily visible under the optical microscope readily lend themselves to intense physical and biochemical study The understanding of the structure and function of this most critical genetic material has progressed through a number of interesting stages Often connected with the development of new techniques in staining and photography using the standard microscope and the electron microscope It is interesting to look back at the history of cytogenetics I would like especially to emphasize the work of Karl Sax and many of his students Work with *Tradescantia* became feasible after Edgar Anderson straightened out the ecology and Sax took advantage of the small number of chromosomes easily visible under the microscope As a matter of fact this development is seen as the foundation for the quantitative analysis of radiation effects on chromosomes During the 50 years since then more refined studies have been initiated The study of cytogenetic mechanisms has become an important tool for the recognition of the effects of environmental factors on all living systems and has made SCE studies possible One of the most important stages in chromosome research was the development in radiation biology of radiolabeling the chromosome with tritiated thymidine This technique published in 1957 by Dr *Sister Chromatid Differential (SCD) Staining and Sister Chromatid Exchange (SCE) in Human Cells* Karen Dee Ann Kurvink, 1976 **Cumulated Index Medicus**, 1986 **Sister Chromatid Exchanges: The nature of SCEs** Raymond R. Tice, Alexander Hollaender, 1984 **Sister Chromatid Exchange** RAPOSA TIBOR., 1983 **Probing the Mechanism of Sister Chromatid Exchange Formation with the Fluorescent Plus Giemsa Technique** Loh-chung Yu, 1976 *Sister Chromatid Exchange Induction in Mammalian Cells* Alessandra Maria Vittoria Cavaglià, 1981 **Cytobios**, 2001 **Toxicological Profile for Benzidine**, 1989 **Toxicological Profile for Bromodichloromethane**, 1989

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