Resource Summary Report

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PIAGE

RRID:SCR_013124
Type: Tool

Proper Citation

PIAGE (RRID:SCR_013124)

Resource Information

URL: http://www.dkfz.de/en/epidemiologie-krebserkrankungen/software/software.html

Proper Citation: PIAGE (RRID:SCR_013124)

Description: THIS RESOURCE IS NO LONGER IN SERVICE. Documented on May 24,2023. Software program that performs estimation of power and sample sizes required to detect genetic and environmental main, as well as gene-environment interaction (GxE) effects in indirect matched case-control studies (1:1 matching). When the hypothesis of GxE is tested, power/sample size will be estimated for the detection of GxE, as well as for the detection of genetic and environmental marginal effects. Furthermore, power estimation is implemented for the joint test of genetic marginal and GxE effects (Kraft P et al., 2007). Power and sample size estimations are based on Gauderman"s (2002) asymptotic approach for power and sample size estimations in direct studies of GxE. Hardy-Weinberg equilibrium and independence of genotypes and environmental exposures in the population are assumed. The estimates are based on genotypic codes (G=1 (G=0) for individuals who carry a (non-) risk genotype), which depend on the mode of inheritance (dominant, recessive, or multiplicative). A conditional logistic regression approach is used, which employs a likelihood-ratio test with respect to a biallelic candidate SNP, a binary environmental factor (E=1 (E=0) in (un)exposed individuals), and the interaction between these components. (entry from Genetic Analysis Software)

Synonyms: R/PIAGE, Power of Indirect Association Studies of Gene-Environment Interactions

Resource Type: software resource, software application

Keywords: gene, genetic, genomic, r, ms-windows, linux

Funding:

Availability: THIS RESOURCE IS NO LONGER IN SERVICE

Resource Name: PIAGE

Resource ID: SCR_013124

Alternate IDs: nlx_154534, SCR_009372, nlx_154594

Record Creation Time: 20220129T080314+0000

Record Last Update: 20250418T055335+0000

Ratings and Alerts

No rating or validation information has been found for PIAGE.

No alerts have been found for PIAGE.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.