Resource Summary Report

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NeuroSNP Project

RRID:SCR_007029
Type: Tool

Proper Citation

NeuroSNP Project (RRID:SCR_007029)

Resource Information

URL: http://zork.wustl.edu/nida/neurosnp.html

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Description: The goal of this project is to aid genetic association studies of addiction by creating a resource of biologically relevant genes, pathways and single nucleotide polymorphisms (SNPs). The primary users of the NeuroSNP resource are investigators conducting genome-wide association studies (GWASs) of addiction-related phenotypes. NeuroSNP will allow investigators to identify biologically relevant genes for addiction based on curated expert knowledge, and assess the coverage of these genes provided by commercial SNP microarrays. If investigators wish to ensure the coverage of certain addiction-related genes is optimal, NeuroSNP provides a mechanism for supplementation. While commercial SNP microarrays offer affordable and comprehensive coverage of the human genome, some diseases have biologically relevant genomic regions that may require additional coverage. Addiction, for example, is believed to be influenced by complex interactions involving several genes and pathways. NIDA has assembled a number of investigators specializing in fields such as genetics, pharmacogenetics, bioinformatics and neurobiology through a Request for Information. These investigators have pooled their expert knowledge to produce a database of addiction-related genes and SNPs. Commercial SNP microarrays, such as those offered by Affymetrix and Illumina, are then analyzed to determine how well certain addiction-related genes are covered. When the coverage is less than optimal, a SNP prioritization scheme is used to supplement the commercial array with the most biologically informative markers. For example, SNPs in coding regions, promoters, and evolutionary conserved regions are selected first.

Abbreviations: NeuroSNP

Synonyms: NeuroSNP Project

Resource Type: database, data or information resource

Resource Name: NeuroSNP Project

Resource ID: SCR_007029

Alternate IDs: nif-0000-21983

Record Creation Time: 20220129T080239+0000

Record Last Update: 20260725T191145+0000

Ratings and Alerts

No rating or validation information has been found for NeuroSNP Project.

No alerts have been found for NeuroSNP Project.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Vrieze SI, et al. (2014) In search of rare variants: preliminary results from whole genome sequencing of 1,325 individuals with psychophysiological endophenotypes. Psychophysiology, 51(12), 1309.

Iacono WG, et al. (2014) Genome-wide scans of genetic variants for psychophysiological endophenotypes: a methodological overview. Psychophysiology, 51(12), 1207.

Philip VM, et al. (2010) High-throughput behavioral phenotyping in the expanded panel of BXD recombinant inbred strains. Genes, brain, and behavior, 9(2), 129.