

Scavenger Hunt Tip Sheet

Lesson Title: Genes, Environments, and Behavior 2

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Name: _____

Print out a hard copy of the first five research summary pages from the website [Major Affective Disorders \(http://www.ncbi.nlm.nih.gov/entrez/dispomim.cgi?id=125480\)](http://www.ncbi.nlm.nih.gov/entrez/dispomim.cgi?id=125480) As you read the selection, conduct a scavenger hunt for phrases that reference research methods. Use a highlighter to mark the phrases you find.

Phrases that reference types of research:

- “the role of genetic factors is indicated by concordance monozygotic and dizygotic twins, respectively”
- “using positron emission tomographic (PET) images”
- “as demonstrated by magnetic resonance imaging (MRI)”
- “in 34 families”
- “presented a 2-generation family”
- “tested for parent-of-origin effect”
- “studied ... cell lines”
- “a number of family studies”
- “in association studies”
- “suggest a molecular basis”
- “by linkage analysis”
- “found evidence of a susceptibility gene”
- “using linkage disequilibrium”
- “2 pedigrees”
- “complete genome screen”
- “candidate region”
- “genomewide association study”

[there are many more]

Additional Scavenger Hunt

Locations mentioned where genetic research into Major Affective Disorder has been studied:

Denmark; Canada; Faroe Islands; Lancaster County, Pennsylvania; Central Valley of Costa Rica; Iceland; the United Kingdom; Australia; Scotland

Use of the word “suggested” to describe study findings:

Variations of the word “suggest” are used more than 20 times in the first 5 pages. Other qualifying, non-definitive phrases include:

- “implicated in”
- “was demonstrated”
- “might be”
- “were interpreted as indicating”
- “may actually be”

Note: the word “proved” does not appear in this research summary

Use of phrases that suggest a disconfirmed hypothesis:

Page 4 has a number of such phrases, including:

- “both yielded negative results”
- “ruled out tight linkages”
- “failed to find linkage”
- “inclusion of additional data weakened greatly”
- “found no evidence of linkage”