



Understanding the Genome-Wide Studies of the Cohorts for Heart and Aging Research in Genomic Epidemiology Consortium to Decipher the

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R a . . G E (CHARGE) C . . . a
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Cognitive assessment

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a a a a a a a a a a a a
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Genomic data collection

G a a a a a a a a a a (SNP)
a a a a a a a a a a a a
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Genome-wide association studies (GWAS)

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Meta-analysis

T a a a a a a a a a a
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Pathway analysis

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Ethical considerations

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Quality control

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Statistical analysis

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Validation

W a a a a a a a a a a
a a a a a a a a a a a a
a a a a a a a a a a a a
b a a a a a a a a a a a

Data integration

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a a a a a a a a a a a a
b a a a a a a a a a a a

Results

Identification of genetic variants

R a a a a a a a a a a
a a a a a a a a a a a a
b a a a a a a a a a a a
(GWAS).

Genomic loci and associations

S a a a a a a a a a a
CHARGE C a a a a a a a a
a a a a a a a a a a a a

Effect sizes and allelic associations

E a a a a a a a a a a
a a a a a a a a a a a a
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a a a a a a a a a a a a

Pathway analysis findings

Pa a a a a a a a a a a
a a a a a a a a a a a a
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Discussion

Interpretation of genetic associations

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Comparison with previous studies

F a a a a a a a a a a
a a a a a a a a a a a a
C a a a a a a a a a a a a
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Functional relevance of genetic variants

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Implications for cognitive aging

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