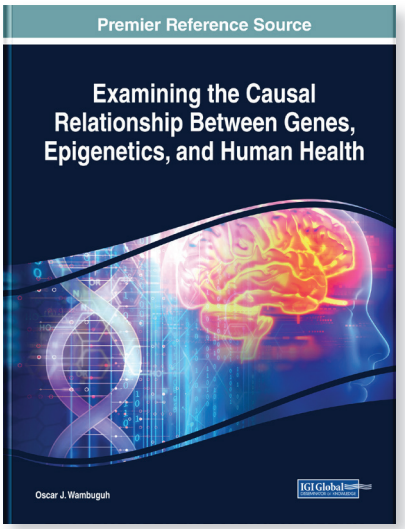
# Examining the Causal Relationship Between Genes, Epigenetics, and Human Health




Part of the Advances in Bioinformatics and Biomedical Engineering Book Series

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## Description:

For as much as we know about DNA and gene expression, many more mysteries remain to be solved. Epigenetics and epigenomics seek to study heritable modifications in gene expression that do not involve underlying DNA sequences to further human health changes.

**Examining the Causal Relationship Between Genes, Epigenetics, and Human Health** provides innovative research methods and applications of chemical activation or deactivation of genes without altering the original DNA sequence. While highlighting topics including gene expression, personalized medicine, and public policy, this book is ideal for researchers, geneticists, biologists, medical professionals, students, and academics seeking current research on the expanding fields of genomics, epigenomics, proteomics, pharmacogenomics, and genome-wide association studies.

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## Topics Covered:

- Autosomal Disorders
- DNA Replication
- Epigenetics
- Epigenomics
- Gene Expression
- Genetic Code
- Organic Toxicants
- Personalized Medicine
- Pharmacogenetics
- Public Policy
- Randomized Mutant

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