

Genetic Susceptibility Bridging the Gap between DNA and Disease

Rammanohar Dhruva*

Department of Oncology and Hemato-oncology (DIPO), University of Milan, Italy

Abstract

Genetic susceptibility is a critical factor influencing an individual's risk of developing various diseases. This article explores the intricate relationship between genetics and disease, elucidating how genetic variations shape susceptibility and pave the way for personalized medicine. Understanding the interplay between DNA, environmental factors, and disease risk is crucial for advancing preventive and therapeutic strategies. Recent advancements in genomic research have provided valuable insights into the genetic basis of disease, offering opportunities for targeted interventions. However, ethical and social considerations surrounding genetic testing and risk assessment must be carefully addressed. By bridging the gap between DNA and disease, we can unlock the potential of precision medicine to improve health outcomes.

Keywords: Genetic susceptibility, DNA, disease, personalized medicine, genomic research, targeted interventions, precision medicine, health outcomes.

Introduction: The field of genetics has revolutionized our understanding of disease, revealing the intricate interplay between DNA, environmental factors, and disease risk. This article explores the concept of genetic susceptibility, which refers to an individual's inherent predisposition to develop certain diseases. Understanding this susceptibility is crucial for advancing personalized medicine, where treatments are tailored to an individual's unique genetic profile. Recent advancements in genomic research have provided valuable insights into the genetic basis of various diseases, offering opportunities for targeted interventions and preventive strategies. However, the ethical and social implications of genetic testing and risk assessment must be carefully considered. By bridging the gap between DNA and disease, we can unlock the potential of precision medicine to improve health outcomes.

***Corresponding author:** Rammanohar Dhruva, Department of Oncology and Hemato-oncology (DIPO), University of Milan, Italy, E mail: rammanohar.dhruva@gmail.com

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