

Epigenetic Inheritance in Heredity and Evolution: A Developmental Perspective

Eva Jablonka
Tel Aviv University, Israel

Abstract

In this lecture I discuss the contribution of epigenetic inheritance to heredity and evolution. I describe different mechanisms of epigenetic inheritance, and examine the prevalence, stability and inducibility of heritable epigenetic variations. I then propose an expansion of the epigenetic research program, and point to some of the ways in which epigenetic inheritance mechanisms have affected micro- and macro-evolution.