

Genomic basis of evolutionary change: evolving immunity

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Complex traits are manifestations of intricate gene interaction networks. Evolution of complex traits revolves around the genetic variation in such networks. Genomics has increased our ability to investigate the complex gene interaction networks, and characterize the extent of genetic variation in these networks. Immunity is a complex trait, for which the ecological drivers and molecular networks are fairly well understood in *Drosophila*. By characterizing the natural variation in immunity, and mapping how the genome changes during the evolution of immunity in *Drosophila*, we can integrate our knowledge on the complex genetic architecture of traits and the molecular basis of evolutionary processes.

Keywords: gene interaction networks, adaptation, evolution, molecular mechanisms, complex traits, innate immunity, parasitoid resistance

Introduction

Many traits are regulated and coordinated by multiple genes and environmental conditions. In nature, such traits evolve continuously under local selection pressures and neutral processes, leading to a rich diversity of phenotypic varieties and environmental coping strategies. Already, Dobzhansky (1964) described the rich diversity in the living world as the outcome of genetic diversity, environmental heterogeneity, and adaptations that evolve at the interplay between molecular and organismic biology. The molecular mechanisms in evolution have been particularly difficult to characterize. Firstly, we need to link the genotype to the phenotype. This link consists of extensive and intricate gene interaction networks (Ayroles et al., 2009; Lehner, 2013). Secondly, we need to identify the molecular changes responsible for phenotypic adaptations. This hinges on elucidating the genetic variation and the genetic changes that may occur anywhere in the gene interaction networks (e.g., Edwards et al., 2009).

The manifestation of genetic variation in gene networks is very complex. Changes in single genes may affect the activity and even topology of the whole genetic network (e.g., Knight et al., 2006). Genes and gene interaction networks are often pleiotropic and regulate various traits and processes, implying that changes in a single gene may be manifested in several traits (Stearns, 2010). Conversely, allelic variations in many genes may contribute to the variation in a particular phenotypic trait (Manolio et al., 2009). Furthermore, epistasis is pervasive, implying that allelic variations at multiple loci may affect the phenotypic effects of each other (Phillips, 2008; Mackay and Moore, 2014; Moore and Williams, 2015). These considerations on the genetic basis of evolution are not new, and have been studied for several decades (e.g., Wagner and Altenberg, 1996). Forward and reverse genetics have been highly successful in elucidating the functions of single genes or mutations for a particular trait (Nagy et al., 2003). These techniques, however, are limiting when studying the complexity of molecular interaction networks underlying a phenotype, or the molecular mechanisms of the evolution of complex traits.

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