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Improvement of Animal Well-being

14 Indirect Selection for Improvement of Animal Well-being15 Genetic Diversity and Conservation of Poultry; 16 Progress and Prospects in Resistance to Disease; 17 Genetics of the Immune System; 18 Genetic Resistance and Transmission of Avian Bacteria and Viruses; 19 Genetic Resistance and Transmission of Avian Parasites; 20 Selection for Disease Resistance: Conventional Breeding for Resistance to Bacteria and Viruses; 21 Selection for Disease Resistance: Molecular Genetic Techniques; 22 Selection for Disease Resistance: Direct Selection on the Immune Response
23 Genetic Markers: Prospects and Applications in Genetic Analysis ?= Color Composite Default screen24 Designs and Methods to Detect QTL for Production Traits Based on Mapped Genetic Markers; 25 Designs and Methods to Detect QTL for Production Traits Based on Random Genetic Models; 26 Structural Genomics: Integrating Linkage, Physical and Sequence Maps; 27 Incorporating Molecular Information in Breeding Programmes: Methodology; 28 Incorporating Molecular Information in Breeding Programmes: Applications and Limitations; 29 Comparative Genomics
30 Functional Genomics: Development and Gene Regulation31 Expressed Sequence Tags, DNA Chip Technology and Gene Expression Profiling; 32 DNA Polymorphisms in Functional Genes; 33 Strategies for the Production of Transgenic Chickens; 34 The Future of Molecular Genetics in Poultry Breeding; Index

Sommario/riassunto

This reference work addresses issues associated with poultry breeding, by examining quantitative and molecular genetics and the uses of transgenic technology. The important area of genetic disease resistance and transmission is also covered.
