

1. Record Nr.	UNINA9910784121303321
Titolo	Poultry genetics, breeding, and biotechnology / / edited by W.M. Muir and S.E. Aggrey
Pubbl/distr/stampa	Wallingford, Oxon, UK ; ; Cambridge, Mass. : , : CABI Pub., , 2003 ©2003
ISBN	1-280-83377-7 9786610833771 0-85199-845-3
Descrizione fisica	1 online resource (xiii, 706 pages) : illustrations
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Disciplina	636.5/082
Soggetti	Poultry - Breeding Poultry - Genetics Poultry - Genetic engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; Contributors; Preface; 1 Industrial Perspective on Problems and Issues Associated with Poultry Breeding; 2 Growth and Reproduction Problems Associated with Selection for Increased Broiler Meat Production; 3 Skeletal Problems Associated with Selection for Increased Production; 4 Meat Quality Problems Associated with Selection for Increased Production; 5 Behaviour Problems Associated with Selection for Increased Production; 6 Genotype-Environment Interactions: Problems Associated with Selection for Increased Production 7 Breeding Objectives and Selection Strategies for Layer Production; 8 Breeding Objectives and Selection Strategies for Broiler Production; 9 Use of Mixed Model Methodology in Breeding Strategies for Layers; 10 Application of Mixed Model Methodology in Breeding Strategies for Meat-type Birds; 11 Use of Mixed Model Methodology in Poultry Breeding: Estimation of Genetic Parameters; 12 Use of Mixed Model Methodology in Poultry Breeding: Assumptions, Limitations and Concerns of BLUP-based Selection Programmes; 13 Direct Selection for

## Improvement of Animal Well-being

14 Indirect Selection for Improvement of Animal Well-being; 15 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 Regulation; 31 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

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### 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.

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