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Titolo	Quantitative trait loci analysis in animals [[electronic resource] /] / Joel Ira Weller
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ISBN	1-282-49984-X 9786612499845 1-84593-734-1
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (286 p.)
Collana	Modular Texts
Disciplina	636.08/21
Soggetti	Livestock - Breeding Livestock - Genetics Quantitative genetics Electronic books.
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 (p. 244-257) and indexes.
Nota di contenuto	Contents; Preface: Theory Versus Results; Preface to the Second Edition; 1 Historical Overview; 2 Principles of Parameter Estimation; 3 Random and Fixed Effects, the Mixed Model; 4 Experimental Designs to Detect QTL: Generation of Linkage Disequilibrium; 5 QTL Parameter Estimation for Crosses between Inbred Lines; 6 Advanced Statistical Methods for QTL Detection and Parameter Estimation; 7 Analysis of QTL as Random Effects; 8 Statistical Power to Detect QTL, and Parameter Confidence Intervals; 9 Optimization of Experimental Designs; 10 Fine Mapping of QTL 11 Complete Genome QTL Scans: The Problem of Multiple Comparisons12 Multitrait QTL Analysis; 13 From the QTL to the Gene; 14 Principles of Selection Index and Traditional Breeding Programmes; 15 Marker-assisted Selection: Theory; 16 Marker-assisted Selection: Current Status and Results of Simulation Studies; 17 Marker-assisted Introgression; Glossary of Symbols; References; Author Index; Subject Index
Sommario/riassunto	Quantitative Trait Loci (QTL) is a topic of major agricultural significance for efficient livestock production. This book covers various statistical

methods that have been used or proposed for detection and analysis of QTL and marker-and gene-assisted selection in animal genetics and breeding.
