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Autore	Ribatti, Domenico
Titolo	Agli albori dell'embriologia sperimentale : storia di una disciplina scientifica / Domenico Ribatti
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Altri autori (Persone)	LiuZhanjiang
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Nota di contenuto	Concept of genomes and genomics / Zhanjiang Liu -- Restriction fragment length polymorphism (RFLP) / Zhanjiang Liu -- Randomly amplified polymorphic DNA (RAPD) / Zhanjiang Liu -- Amplified fragment length polymorphism (AFLP) / Zhanjiang Liu -- Microsatellite markers and assessment of marker utility / Zhanjiang Liu -- Single nucleotide polymorphism (SNP) / Zhanjiang Liu -- Allozyme and mitochondrial DNA markers / Huseyin Kucuktas and Zhanjiang Liu -- Individual-based genotype methods in aquaculture / Pierre Duchesne and Louis Bernatchez -- Application of DNA markers for population genetic analysis / Eric M. Hallerman, Paul J. Grobler, and Jess W. Jones -- Linkage mapping in aquaculture species / Roy G. Danzmann and Karim Gharbi -- Detection and analysis of quantitative trait loci (QTL) for economic traits in aquatic species / Abraham Korol ... [et al.] -- Marker-assisted selection for aquaculture species / Max F. Rothschild and Anatoly Ruvinsky -- Construction of large-insert bacterial clone libraries and their applications / Limei He ... [et al.] -- Bacterial artificial chromosome libraries and BAC-based physical mapping of aquaculture

genomes / William S. Davidson -- Physical characterization of genomes through BAC end sequencing / Peng Xu, Shaolin Wang, and Zhanjiang Liu -- Genomescape: characterizing the repeat structure of the genome / Zhanjiang Liu -- Genomic analyses using fluorescence in situ hybridization / Ximing Guo, Yongping Wang, and Zhe Xu -- Radiation hybrid mapping in aquatic species / Caird E. Rexroad III -- Comparative genomics and positional cloning / Bo-Young Lee and Thomas D. Kocher -- Transcriptome characterization through the analysis of expressed sequence tags / Zhanjiang Liu -- Microarray fundamentals: basic principles and application in aquaculture / Eric Peatman and Zhanjiang Liu -- Salmonid DNA microarrays and other tools for functional genomics research / Matthew L. Rise ... [et al.] -- Computational challenges for the analysis of large datasets related to aquatic environmental genomics / Gregory W. Warr, Jonas S. Almeida, and Robert W. Chapman -- Functional genomics / Perry B. Hackett and Karl J. Clark -- DNA sequencing technologies / Zhanjiang Liu -- Sequencing the genome / Zhanjiang Liu -- Bioinformatics / Lei Liu -- Dealing with duplicated genomes of teleosts / Alan Christoffels -- Bivalve genomics: complications, challenges, and future perspectives / Jason P. Curole and Dennis Hedgecock.

Sommario/riassunto

Genomics is a rapidly growing scientific field with applications ranging from improved disease resistance to increased rate of growth. Aquaculture Genome Technologies comprehensively covers the field of genomics and its applications to the aquaculture industry. This volume looks to bridge the gap between a basic understanding of genomic technology to its practical use in the aquaculture industry.
