Provides an understanding of molecular research and its applications to the aquaculture industry in a format that allows individuals without prior experience in this area to learn about and understand this important field.

Molecular research and biotechnology have long been fields of study with applications useful to aquaculture and other animal sciences.

The book opens with an introductory chapter giving background information on the aquaculture industry and the development of the science and research methods to what is currently being used. From there it discusses how new, innovative techniques are now being converted and used for research in this field. Introductory chapters on basic molecular biological techniques, such as PCR, cloning, and hybridization, and their rationale provide the foundation for an in-depth look at molecular research and its specific applications. The remaining chapters review key areas of molecular research such as microarray analysis, quantitative PCR, and transgenics.

It's a valuable reference for professionals and researchers with an interest in the development of molecular technologies and their applications to the field of aquaculture.