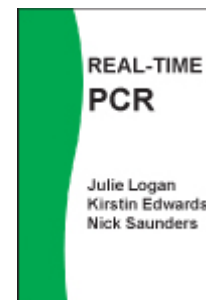


Real-Time PCR

Current Technology and Applications



Edited by: Julie Logan, Kirstin Edwards and Nick Saunders

Applied and Functional Genomics, Health Protection Agency, London

Published: January 2009. **Pages:** x + 284

Hardback: ISBN 978-1-904455-39-4 £159, \$319

Published by: Caister Academic Press www.caister.com

Real-time PCR (RT-PCR) technology is highly flexible and many alternative instruments and fluorescent probe systems have been developed recently. The decreased hands-on time, increased reliability and improved quantitative accuracy of RT-PCR methods have contributed to the adoption of RT-PCR for a wide range of new applications.

This essential manual presents a comprehensive guide to the most up-to-date technologies and applications as well as providing an overview of the theory of this increasingly important technique. Renowned experts in the field describe and discuss the latest PCR platforms, fluorescent chemistries, validation software, data analysis, and internal and external controls. This timely and authoritative volume also discusses a wide range of RT-PCR applications including: clinical diagnostics, biodefense, RNA expression studies, validation of array data, mutation detection, food authenticity and legislation, NASBA, molecular haplotyping, and much more.

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