

# Quality in Laboratory Hemostasis and Thrombosis

EDITED BY

**Steve Kitchen,  
John D. Olson and  
F. Eric Preston**

FOREWORD BY

**Professor Dr Frits R. Rosendaal**  
Leiden University Medical Center



**WILEY-BLACKWELL**

# Contents

Contributors, vii

Foreword, x

*Frits R. Rosendaal*

Preface, xii

- 1 General Quality Planning in the Hemostasis Laboratory, 1  
*John D. Olson*
- 2 Hemostasis Test Validation, Performance and Reference Intervals, 9  
*Richard A. Marlar*
- 3 International Standards in Hemostasis, 19  
*Trevor W. Barroucliffe*
- 4 Sample Integrity and Preanalytical Variables, 31  
*Dorothy M. Adcock*
- 5 Internal Quality Control in the Hemostasis Laboratory, 43  
*Steve Kitchen, F. Eric Preston, John D. Olson*
- 6 External Quality Assessment in Hemostasis: Its Importance and Significance, 51  
*F. Eric Preston, Steve Kitchen, Alok Srivastava*
- 7 Initial Evaluation of Hemostasis: Reagent and Method Selection, 63  
*Wayne L. Chandler*
- 8 Point-of-Care Testing in Hemostasis, 72  
*Chris Gardiner, Samuel Machin, Ian Mackie*
- 9 Assay of Factor VIII and Other Clotting Factors, 81  
*Steve Kitchen, F. Eric Preston*
- 10 Application of Molecular Genetics to the Investigation of Inherited Bleeding Disorders, 90  
*Stefan Lethagen, Marianne Schwartz, Lars Bo Nielsen*
- 11 Standardization of D-dimer Testing, 99  
*Guido Reber, Philippe de Moerloose*
- 12 Diagnostic Assessment of Platelet Function, 110  
*Paquita Nurden, Alan Nurden*
- 13 Laboratory Evaluation of von Willebrand Disease: Phenotypic Analysis, 125  
*Emmanuel J. Favaloro*
- 14 Laboratory Analysis of von Willebrand Disease: Molecular Analysis, 137  
*Anne Goodeve, Ian Peake*

## CONTENTS

- 15 Dilemmas in Heritable Thrombophilia Testing, 147  
*Isobel D. Walker, Ian Jennings*
- 16 Evaluation of Antiphospholipid Antibodies, 160  
*Michael Greaves*
- 17 Monitoring Heparin Therapy, 170  
*Marilyn Johnston*
- 18 Monitoring Oral Anticoagulant Therapy, 179  
*Armando Tripodi*
- 19 Monitoring New Anticoagulants, 190  
*Elaine Gray, Trevor W. Barrowcliffe*
- 20 Detecting and Quantifying Functional Inhibitors in Hemostasis, 198  
*Bert Verbruggen, Irena Nováková, Waander van Heerde*
- Index, 209