



# Transfusion and Transplantation Science (Fundamentals of Biomedical Science)

By Robin Knight

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## Transfusion and Transplantation Science (Fundamentals of Biomedical Science) By Robin Knight

Biomedical scientists are the foundation of modern healthcare, from cancer screening to diagnosing HIV, from blood transfusion for surgery to food poisoning and infection control. Without biomedical scientists, the diagnosis of disease, the evaluation of the effectiveness of treatment, and research into the causes and cures of disease would not be possible.

The Fundamentals of Biomedical Science series is written to reflect the challenges of practicing biomedical science today. It draws together essential basic science with insights into laboratory practice to show how an understanding of the biology of disease is coupled to the analytical approaches that lead to diagnosis.

Assuming only a minimum of prior knowledge, the series reviews the full range of disciplines to which a Biomedical Scientist may be exposed - from microbiology to cytopathology to transfusion science. Alongside volumes exploring specific biomedical themes and related laboratory diagnosis, an overarching Biomedical Science Practice volume gives a grounding in the professional and experimental skills with which any Biomedical Scientist must be equipped.

The series:

- Understands the complex roles of Biomedical Scientists in the modern practice of medicine
- Understands the development needs of employers and the Profession
- Addresses the need for understanding of a range of fundamental sciences in the context of Biomedicine
- Places the theoretical aspects of Biomedical Science in their practical context

The series is developed in partnership with and endorsed by the Institute of Biomedical Science. See [ibms.org](http://ibms.org) for more information.

The science of transfusion and transplantation demands a multifaceted understanding of immunology, haematology, and genetics from the biomedical

scientist. Transfusion and Transplantation Science coherently synthesises the essential concepts of these subjects and presents them within the practical framework of the hospital banking and transplantation centre, thereby furnishing the reader with the knowledge and skills required to specialize in this discipline.

Beginning with an overview of potential immune responses to transfusion and transplantation, the text goes on to explain the aetiology behind these responses with a view to the prediction, diagnosis, and mitigation of adverse effects on the patient. It then outlines issues of quality, but also regulatory and legal concerns, that need to be considered when collecting, preparing, and storing products for transfusion or transplantation.

#### Online Resource Centre

The Online Resource Centre to accompany Transfusion and Transplantation Science features:

For registered adopters of the book:

- Figures from the book, available to download

For students:

- An interactive Digital Microscope, encouraging the exploration of tissue samples
- Self-assessment modules to help you to check and reinforce understanding of the basic science introduced in each volume
- Video podcasts including interviews with practicing biomedical scientists, and 'in the lab' footage showing biomedical science in practice



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### **Bibliography**

- Sales Rank: #2570770 in eBooks
- Published on: 2012-09-20
- Released on: 2012-09-20
- Format: Kindle eBook



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### Editorial Review

#### About the Author

**Robin Knight** is former Head of the National Blood Service's Red Cell Immunohaematology division. During his 44 years of experience in clinical laboratories, 35 have largely been in blood transfusion in both hospitals, large and small, and the National Blood Service. For many years Robin was actively engaged in lecturing on HNC, BSc and MSc courses at the University of Westminster. Robin was until recently the Chief Examiner in Transfusion Science for the Institute of Biomedical Science, and initiated the British Blood Transfusion Society's Specialist Certificate Examination. He has been the author or co-author of 14 papers published in peer reviewed journals, and is the co-author of the BBTS publication '*Introduction to blood transfusion science and blood bank practice*' which is now in its 5th edition, and is the key book for trainee scientists in transfusion in the UK.

He has also co-authored two World Health Organisation [WHO] guidelines and a section of their Safe Blood Distance Learning materials. Robin is still actively involved, as a specialist advisor, with a number of Blood Transfusion Services in Africa.

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**Kelly Brooks:**

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