

1. Record Nr.	UNINA9910782817403321
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Titolo	An introduction to biomedical science in professional and clinical practice [[electronic resource] /] / by Sarah J. Pitt and James M. Cunningham
Pubbl/distr/stampa	Chichester, UK ; ; Hoboken, NJ, : Wiley-Blackwell, 2009
ISBN	1-118-68771-X 1-282-02823-5 9786612028236 0-470-74359-X
Edizione	[1st ed.]
Descrizione fisica	1 online resource (241 p.)
Altri autori (Persone)	CunninghamJames M
Disciplina	616.07023
Soggetti	Medical scientists - Vocational guidance Pathologists - Vocational guidance
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An Introduction to Biomedical Science in Professional and Clinical Practice; Contents; Preface; Acknowledgements; 1 Introduction to a career as a biomedical scientist; 1.1 What is a biomedical scientist?; 1.2 Early development of clinical laboratory sciences; 1.3 Development of the biomedical science profession; 1.4 Role of the IBMS as the professional body for biomedical scientists in the 21st Century; 1.5 Health Professions Council; 1.6 Education and training for biomedical scientists; 1.7 Codes of conduct; 1.8 Conclusion; Quick quiz; Coursework exercises; Suggested references 2 Organization of pathology departments and the role of pathology in healthcare 2.1 Introduction; 2.2 Organization of pathology departments; 2.3 Staff groups within pathology; 2.4 Role of pathology in healthcare; 2.5 Users of the service; 2.6 Evidence-based laboratory medicine; 2.7 Improving the pathology service; 2.8 Point of care testing (POCT); 2.9 Role of POCT in patient care; 2.10 Conclusion; Quick quiz; Suggested exercises; Suggested references; 3 Communication for biomedical scientists; 3.1 Introduction; 3.2 Communicating as a scientist; 3.3 Communicating as a healthcare professional

3.4 Delivering the message: applying principles of effective communication
3.5 Communication techniques; 3.6 Conclusion; Quick quiz; Suggested exercises; Suggested references; 4 Quality management in the clinical laboratory; 4.1 Introduction; 4.2 Quality in pathology; 4.3 Quality Control; 4.4 Quality Assurance; 4.5 Quality assessment; 4.6 Quality audit; 4.7 Clinical governance; 4.8 Quality management system (QMS); 4.9 Accreditation; 4.10 Factors affecting the quality of work in a pathology laboratory; Quick quiz; Suggested exercises; Suggested references
5 Basic principles of working in a clinical pathology laboratory
5.1 Introduction; 5.2 Working as a professional biomedical scientist in the laboratory; 5.3 Flow of work in a clinical laboratory; 5.4 Health and safety in the clinical laboratory; 5.5 Confidentiality, the Data Protection Act 1998 and the Caldicott Principles; Quick quiz; Suggested exercises; Suggested references; 6 Introduction to the biomedical science disciplines; 6.1 Introduction; 6.2 Haematology and transfusion science; 6.3 Clinical biochemistry; 6.4 Histopathology and cytopathology; 6.5 Medical microbiology
6.6 Liaison between pathology disciplines
6.7 Evaluation of a new diagnostic test; 6.8 Sensitivity and specificity of an assay; Quick quiz; Suggested exercises; Suggested references; 7 Biomedical science laboratory techniques; 7.1 Introduction; 7.2 Haematology; 7.3 Clinical chemistry; 7.4 Medical microbiology; 7.5 Histopathology; Suggested references; 8 Development of knowledge and competency for biomedical scientists; 8.1 Introduction; 8.2 Gathering evidence of knowledge and competency for HPC registration; 8.3 Continuing professional development; 8.4 Professional body support for CPD
8.5 Reflective practice for biomedical scientists

Sommario/riassunto

Biomedical Science in Professional and Clinical Practice is essential reading for all trainee biomedical scientists looking for an introduction to the biomedical science profession whether they are undergraduates following an accredited biomedical sciences BSc, graduate trainees or experienced staff with overseas qualifications. This book guides trainees through the subjects, which they need to understand to meet the standards required by the Health Professions Council for state registration. These include professional topics, laws and guidelines governing clinical pathology, basic labo
