

BIBLIOGRAPHY

- Allergy: Arshad
Churchill Livingstone
- Anti microbial drug action: Williams et al
Blos Scientific Publishers
- Atlas of immunology: Cruse et al
Springer
- Basic & clinical immunology: Peakman et al
Churchill Livingstone
- Basic pathology (7th edition): Robbins et al
Saunders
- BNF:
Pharmaceutical Press
- Case studies in immunology: Rosen et al
Garland
- Cell biology: Pollard et al
Saunders
- Cellular & molecular immunology (5th edition): Abbas et al
Saunders
- Clinical Immunology (4th edition): Chapel et al
Blackwell Science
- Clinical immunology & serology: Stevens
Davis
- Essential histology: Cormack
Lippincott, Williams & Wilkins
- Essentials of allergy: Krishna et al
Martin Dunitz
- Focus on human biology: Rischer et al
Harper Collins
- Haematology at a glance: Mehta et al
Blackwell Science
- Histopathology & cell biology: Kierszenbaum
Mosby

- How the immune system works (2nd edition): Sompayrae**
Blackwell Publishing
- Immunology... A short course (second edition): Benjamini et al**
Willey - Liss
- Immunology (2nd edition): Klein et al**
Blackwell Science
- Immunology(5th edition): Goldsby et al**
Freeman
- Immunology 6th edition: Roitt et al**
Mosby
- Immunobiology 5: Janeway et al**
Churchill Livingstone
- Immunology at a glance 7th edition: Playfair et al**
Blackwell Science
- Immunology for medical students: Nairn**
Mosby
- Immunology, immunopathology & immunity (6th edition): Sell**
ASM press
- Immunology nomenclature: Editor M Turner**
Hogrefe & Huber
- Infectious Diseases in 30 days: Southwick**
McGraw Hill
- Medical immunology (10th edition): Parslow et al**
McGraw Hill
- Medical microbiology (2nd edition): Barton**
Addison Wesley
- Medical pharmacology at a glance: Neal**
Blackwell Scientific
- Practical immunology (4th edition): Hay**
Blackwell Science

Pathology illustrated: Govan et al
Churchill Livingstone

Really essential medical immunology: Roitt et al
Blackwell Science

The physiology of the excitable cell 4th edition: Aidley
Cambridge University Press

Tuberculosis: Editors Porter & Grange
Imperial College Press

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