Molecular Biology of B Cells. Edition No. 2

Description: Molecular Biology of B Cells, Second Edition is a comprehensive reference to how B cells are generated, selected, activated and engaged in antibody production. All of these developmental and stimulatory processes are described in molecular, immunological, and genetic terms to give a clear understanding of complex phenotypes.

Molecular Biology of B Cells, Second Edition offers an integrated view of all aspects of B cells to produce a normal immune response as a constant, and the molecular basis of numerous diseases due to B cell abnormality. The new edition continues its success with updated research on microRNAs in B cell development and immunity, new developments in understanding lymphoma biology, and therapeutic targeting of B cells for clinical application. With updated research and continued comprehensive coverage of all aspects of B cell biology, Molecular Biology of B Cells, Second Edition is the definitive resource, vital for researchers across molecular biology, immunology and genetics.

- Covers signaling mechanisms regulating B cell differentiation
- Provides information on the development of therapeutics using monoclonal antibodies and clinical application of Ab
- Contains studies on B cell tumors from various stages of B lymphocytes
- Offers an integrated view of all aspects of B cells to produce a normal immune response

Contents:
1. Ig loci: structure and expression regulation
2. The mechanisms of V(D)J recombination
3. Transcriptional regulation of B lymphocyte differentiation
4. B cell transcriptome
5. The role of microRNA in B cell development and function
6. Proliferation and differentiation program of developing B cells
7. Development and function of B cell subsets
8. Evolution of primordial B cell antigen receptor
9. The evolutionary origin of V(D)J diversification
10. Receptor organization on B cells and its signaling
11. Fc and complement responses
12. The dynamic structure of germinal center: generation of high affinity Ab
13. Cell Migration
14. B cell as regulator
15. B cell memory and plasma cell development
16. Roles of lymphotoxin and Baff on B cells
17. The mucosal immune system: host-bacteria interaction and regulation of IgA synthesis
18. Gut microbiota and their regulation
19. Regulation and function of activation-induced cytidine deaminase
20. Molecular mechanism of CSR
21. Molecular mechanism of SHM
22. Aberrant AID expression by pathogen infection
23. Chromosomal translocation and mutations in B cell leukemia and lymphomas
24. B cells producing pathogenic autoantibodies
25. HIV neutralizing Ab
26. Immune deficiency caused by B cell defects
27. IMGT® for immunoglobulin repertoire analysis and antibody humanization
28. Humanized monoclonal Ab production
29. Ab therapy against lymphoma
30. Anti-interleukin-6 receptor antibody therapy against autoimmune inflammatory diseases
31. Ab therapy against chronic inflammatory immune-mediated diseases

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